



# AUGUST 2000

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# OAK RIDGE, TN

OAK RIDGE (OQT)  
 Lat: 36°01' N Long: 84°14' W Elev (Ground): 910 Feet  
 Time Zone: EASTERN WBAN: 53868 ISSN #: -

| DATE | TEMPERATURE °F |         |         |                 |                |                  | DEG DAYS BASE 65° |         | WEATHER   | SNOW/ICE ON GND(IN) |          | PRECIPITATION (INCHES) |          | PRESSURE (INCHES OF HG) |                   | WIND SPEED = MPH DIR = TENS OF DEGREES |         |               |         |       |       | DATE |     |
|------|----------------|---------|---------|-----------------|----------------|------------------|-------------------|---------|-----------|---------------------|----------|------------------------|----------|-------------------------|-------------------|--|---------|---------------|---------|-------|-------|------|-----|
|      | MAXIMUM        | MINIMUM | AVERAGE | DEP FROM NORMAL | AVERAGE DEW PT | AVERAGE WET BULB | HEATING           | COOLING |           | 0700 LST            | 1300 LST | 2400 LST               | 2400 LST | AVERAGE STATION         | AVERAGE SEA LEVEL | RESULTANT SPEED                        | RES DIR | AVERAGE SPEED | MAXIMUM |       |       |      |     |
|      |                |         |         |                 |                |                  |                   |         |           |                     |          |                        |          |                         |                   |  |         |               | 5-SEC   | 2-MIN | SPEED |      | DIR |
| 1    | 2              | 3       | 4       | 5               | 6              | 7                | 8                 | 9       | 10        | 11                  | 12       | 13                     | 14       | 15                      | 16                | 17                                     | 18      | 19            | 20      | 21    | 22    | 23   | 24  |
| 01   | 87             | 71      | 79      | 3               | 70             | 72               | 0                 | 14      | RA BR     |                     |          |                        | T        | 29.11                   | 30.04             | 1.6                                    | 23      | 3.9           | 16      | 22    | 12    | 19   | 01  |
| 02   | 83             | 70      | 77      | 1               | 71             | 72               | 0                 | 12      | RA BR     |                     |          |                        | 0.07     | 29.09                   | 30.03             | 2.2                                    | 19      | 3.2           | 15      | 17    | 12    | 16   | 02  |
| 03   | 88             | 70      | 79      | 3               | 70             | 72               | 0                 | 14      | RA BR     |                     |          |                        | T        | 29.11                   | 30.04             | 0.5                                    | 21      | 2.7           | 24      | 06    | 16    | 06   | 03  |
| 04   | 83             | 69      | 76      | 0               | 69             | 71               | 0                 | 11      | BR        |                     |          |                        | 0.00     | 29.12                   | 30.05             | 0.6                                    | 16      | 1.6           | 13      | 26    | 9     | 27   | 04  |
| 05   | 87             | 67      | 77      | 1               | 70             | 72               | 0                 | 12      | FG+ BR HZ |                     |          |                        | 0.00     | 29.09                   | 30.02             | 0.6                                    | 15      | .8            | 12      | 16    | 9     | 15   | 05  |
| 06   | 92             | 74      | 83      | 7               | 73             | 76               | 0                 | 18      | RA BR     |                     |          |                        | T        | 29.08                   | 30.00             | 3.3                                    | 21      | 4.1           | 15      | 20    | 13    | 20   | 06  |
| 07   | 88             | 73      | 81      | 5               | 74             | 76               | 0                 | 16      | RA BR HZ  |                     |          |                        | 0.01     | 29.14                   | 30.06             | 2.0                                    | 22      | 3.1           | 14      | 23    | 10    | 21   | 07  |
| 08   | 91             | 72      | 82      | 7               | 73             | 75               | 0                 | 17      | RA BR HZ  |                     |          |                        | T        | 29.13                   | 30.06             | 1.7                                    | 22      | 2.8           | 20      | 27    | 15    | 29   | 08  |
| 09   | 95             | 72      | 84*     | 9               | 74             | 77               | 0                 | 19      | FG+ BR HZ |                     |          |                        | 0.00     | 29.11                   | 30.03             | 1.6                                    | 21      | 2.3           | 12      | 23    | 8     | 20   | 09  |
| 10   | 88             | 66      | 77      | 2               | 71             | 73               | 0                 | 12      | RA BR     |                     |          |                        | 1.23     | 29.09                   | 30.01             | 1.0                                    | 06      | 3.3           | 36*     | 06    | 23*   | 05   | 10  |
| 11   | 85             | 68      | 77      | 2               | 63             | 68               | 0                 | 12      | BR        |                     |          |                        | 0.00     | 29.06                   | 29.99             | 2.0                                    | 04      | 3.5           | 18      | 01    | 14    | 01   | 11  |
| 12   | 84             | 62      | 73      | -1              | 60             | 65               | 0                 | 8       |           |                     |          |                        | 0.00     | 29.05                   | 29.98             | 3.1                                    | 03      | 3.9           | 18      | 06    | 14    | 03   | 12  |
| 13   | 82             | 58*     | 70*     | -4              | 59             | 63               | 0                 | 5       | BR        |                     |          |                        | 0.00     | 29.05                   | 29.99             | 2.3                                    | 06      | 3.3           | 20      | 06    | 15    | 06   | 13  |
| 14   | 86             | 60      | 73      | -1              | 62             | 66               | 0                 | 8       |           |                     |          |                        | 0.00     | 29.15                   | 30.09             | 1.6                                    | 07      | 3.0           | 15      | 06    | 12    | 07   | 14  |
| 15   | 90             | 61      | 76      | 2               | 66             | 69               | 0                 | 11      | BR        |                     |          |                        | 0.00     | 29.22                   | 30.16             | 0.7                                    | 16      | 1.4           | 12      | 13    | 9     | 13   | 15  |
| 16   | 95*            | 69      | 82      | 7               | 70             | 74               | 0                 | 17      | BR        |                     |          |                        | 0.00     | 29.17                   | 30.09             | 0.3                                    | 16      | 2.2           | 15      | 17    | 12    | 18   | 16  |
| 17   | 94             | 70      | 82      | 7               | 73             | 76               | 0                 | 17      | BR HZ     |                     |          |                        | 0.00     | 29.08                   | 30.00             | 2.5                                    | 21      | 2.9           | 15      | 22    | 12    | 20   | 17  |
| 18   | 92             | 73      | 83      | 8               | 71             | 74               | 0                 | 18      | RA BR HZ  |                     |          |                        | 0.02     | 29.06                   | 29.97             | 1.5                                    | 24      | 3.6           | 17      | 33    | 14    | 28   | 18  |
| 19   | 85             | 66      | 76      | 1               | 62             | 67               | 0                 | 11      |           |                     |          |                        | 0.00     | 29.15                   | 30.08             | 4.5                                    | 05      | 5.8           | 16      | 09    | 12    | 07   | 19  |
| 20   | 82             | 67      | 75      | 1               | 64             | 67               | 0                 | 10      | RA BR HZ  |                     |          |                        | T        | 29.16                   | 30.10             | 1.6                                    | 10      | 2.5           | 13      | 15    | 10    | 15   | 20  |
| 21   | 81             | 66      | 74      | -1              | 66             | 68               | 0                 | 9       | BR        |                     |          |                        | 0.00     | 29.26                   | 30.21             | 1.0                                    | 19      | 2.2           | 13      | 17    | 10    | 21   | 21  |
| 22   | 84             | 63      | 74      | -1              | 64             | 67               | 0                 | 9       | BR        |                     |          |                        | 0.00     | 29.32                   | 30.26             | 1.6                                    | 20      | 2.2           | 14      | 20    | 10    | 26   | 22  |
| 23   | 85             | 66      | 76      | 4               | 68             | 70               | 0                 | 11      | RA BR HZ  |                     |          |                        | 0.08     | 29.27                   | 30.20             | 2.1                                    | 21      | 2.8           | 17      | 21    | 13    | 20   | 23  |
| 24   | 85             | 68      | 77      | 3               | 69             | 71               | 0                 | 12      | BR HZ     |                     |          |                        | 0.00     | 29.17                   | 30.10             | 0.8                                    | 22      | 2.1           | 13      | 17    | 10    | 18   | 24  |
| 25   | 88             | 63      | 76      | 2               | 65             | 68               | 0                 | 11      |           |                     |          |                        | 0.00     | 29.12                   | 30.05             | 0.4                                    | 10      | 1.1           | 13      | 15    | 8     | 14   | 25  |
| 26   | 88             | 62      | 75      | 1               | 64             | 68               | 0                 | 10      | FG+ BR HZ |                     |          |                        | 0.00     | 29.05                   | 29.98             | 0.7                                    | 18      | 1.9           | 14      | 17    | 10    | 20   | 26  |
| 27   | 82             | 68      | 75      | 1               | 68             | 70               | 0                 | 10      | RA BR     |                     |          |                        | 0.36     | 29.01                   | 29.94             | 3.0                                    | 23      | 3.8           | 17      | 26    | 13    | 25   | 27  |
| 28   | 89             | 66      | 78      | 4               | 67             | 70               | 0                 | 13      | BR        |                     |          |                        | 0.00     | 29.02                   | 29.95             | 0.8                                    | 08      | 2.0           | 14      | 06    | 10    | 06   | 28  |
| 29   | 91             | 67      | 79      | 5               | 65             | 69               | 0                 | 14      | BR        |                     |          |                        | 0.00     | 29.05                   | 29.97             | 1.2                                    | 07      | 2.5           | 15      | 07    | 12    | 06   | 29  |
| 30   | 89             | 65      | 77      | 3               | 65             | 69               | 0                 | 12      | BR        |                     |          |                        | 0.00     | 29.04                   | 29.96             | 2.6                                    | 05      | 3.5           | 17      | 07    | 14    | 06   | 30  |
| 31   | 92             | 71      | 82      | 9               | 67             | 71               | 0                 | 17      |           |                     |          |                        | 0.00     | 28.99                   | 29.91             | 3.0                                    | 08      | 4.3           | 17      | 07    | 14    | 06   | 31  |

|      |      |      |     |      |      |     |      |                    |           |      |       |       |     |    |     |                      |  |  |  |  |  |
|------|------|------|-----|------|------|-----|------|--------------------|-----------|------|-------|-------|-----|----|-----|----------------------|--|--|--|--|--|
| 87.5 | 67.2 | 77.4 | ■ ■ | 67.5 | 70.5 | 0.0 | 12.6 | < MONTHLY AVERAGES | TOTALS--> | 1.77 | 29.11 | 30.04 | 0.2 | 02 | 2.9 | <-- MONTHLY AVERAGES |  |  |  |  |  |
|------|------|------|-----|------|------|-----|------|--------------------|-----------|------|-------|-------|-----|----|-----|----------------------|--|--|--|--|--|

|     |     |     |     |                                     |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |
|-----|-----|-----|-----|-------------------------------------|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|
| 1.5 | 2.9 | 2.2 | ■ ■ | <----- DEPARTURE FROM NORMAL -----> |  |  |  |  |  | -1.93 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 |  |  |  |  |  |  |  |  |  |
|-----|-----|-----|-----|-------------------------------------|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|

|                         |  |                                |  |   |  |                      |  |                              |  |                              |  |
|-------------------------|--|--------------------------------|--|---|--|----------------------|--|------------------------------|--|------------------------------|--|
| <b>DEGREE DAYS</b>      |  |                                |  | GREATEST 24-HR PRECIPITATION: 1.23 DATE: 10 |  |                      |  | SEA LEVEL PRESSURE DATE TIME |  |                              |  |
| MONTHLY TOTAL DEPARTURE |  | SEASON TO DATE TOTAL DEPARTURE |  | GREATEST 24-HR SNOWFALL: DATE: DATE:        |  |                      |  | MAXIMUM                      |  | : 30.32 22 0853              |  |
| HEATING: 0 0            |  | 0 0                            |  | GREATEST SNOW DEPTH: DATE: DATE:            |  |                      |  | MINIMUM                      |  | : 29.86 31 1753              |  |
| COOLING: 390 74         |  | 1307 331                       |  | NUMBER OF DAYS WITH →                       |  | MAXIMUM TEMP ≥ 90: 9 |  | MINIMUM TEMP ≤ 32: 0         |  | PRECIPITATION ≥ 0.01 INCH: 6 |  |
|                         |  |                                |  |   |  | MAXIMUM TEMP ≤ 32: 0 |  | MINIMUM TEMP ≤ 0: 0          |  | PRECIPITATION ≥ 0.10 INCH: 2 |  |
|                         |  |                                |  |   |  | THUNDERSTORMS: 0     |  | HEAVY FOG: 3                 |  | SNOWFALL ≥ 1.0 INCH: :       |  |

AUGUST 2000  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# OAK RIDGE, TN

AUGUST 2000

OQT

WBAN # 53868

| DATE | FOR HOUR (LST) ENDING AT |   |      |      |      |      |      |   |   |    |    |      | DATE | FOR HOUR (LST) ENDING AT |    |    |      |    |    |      |    |    |    |    |    | DATE | Sum if Different<br>(See Note) | 2400 LST |        |
|------|--------------------------|---|------|------|------|------|------|---|---|----|----|------|------|--------------------------|----|----|------|----|----|------|----|----|----|----|----|------|--------------------------------|----------|--------|
|      | 1                        | 2 | 3    | 4    | 5    | 6    | 7    | 8 | 9 | 10 | 11 | 12   |      | 13                       | 14 | 15 | 16   | 17 | 18 | 19   | 20 | 21 | 22 | 23 | 24 |      |                                | Water    | Equiv. |
| 01   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 01   |                                |          | T      |
| 02   |                          |   |      |      |      |      |      |   |   |    |    | 0.04 | 0.01 |                          |    |    | 0.01 | T  |    | 0.01 |    | T  |    |    |    | 02   |                                |          | 0.07   |
| 03   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    | T  |    |    |    | 03   |                                |          | T      |
| 04   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 04   |                                |          | 0.00   |
| 05   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 05   |                                |          | 0.00   |
| 06   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 06   |                                |          | T      |
| 07   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 07   |                                |          | 0.01   |
| 08   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 08   |                                |          | T      |
| 09   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 09   |                                |          | 0.00   |
| 10   |                          |   | 0.75 | 0.35 | 0.10 | 0.02 | 0.01 |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 10   |                                |          | 1.23   |
| 11   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 11   |                                |          | 0.00   |
| 12   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 12   |                                |          | 0.00   |
| 13   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 13   |                                |          | 0.00   |
| 14   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 14   |                                |          | 0.00   |
| 15   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 15   |                                |          | 0.00   |
| 16   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 16   |                                |          | 0.00   |
| 17   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 17   |                                |          | 0.00   |
| 18   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 18   |                                |          | 0.02   |
| 19   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 19   |                                |          | 0.00   |
| 20   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 20   |                                |          | T      |
| 21   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 21   |                                |          | 0.00   |
| 22   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 22   |                                |          | 0.00   |
| 23   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 23   |                                |          | 0.08   |
| 24   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 24   |                                |          | 0.00   |
| 25   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 25   |                                |          | 0.00   |
| 26   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 26   |                                |          | 0.00   |
| 27   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 27   |                                |          | 0.36   |
| 28   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 28   |                                |          | 0.00   |
| 29   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 29   |                                |          | 0.00   |
| 30   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 30   |                                |          | 0.00   |
| 31   |                          |   |      |      |      |      |      |   |   |    |    |      |      |                          |    |    |      |    |    |      |    |    |    |    |    | 31   |                                |          | 0.00   |

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes)  | 5    | 10   | 15   | 20   | 30   | 45   | 60   | 80   | 100  | 120  | 150  | 180  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | .25  | .42  | .52  | .60  | .71  | 1.03 | 1.10 | 1.10 | 1.10 | 1.11 | 1.20 | 1.22 |
| Ending Date            | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Ending Time (Hour/Min) | 0131 | 0132 | 0134 | 0139 | 0148 | 0205 | 0217 | 0217 | 0217 | 0319 | 0349 | 0403 |

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

## REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less  
BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961–1990

### WEATHER NOTATIONS

| QUALIFIER          | WEATHER PHENOMENA                 |                    |                                    |
|--------------------|-----------------------------------|--------------------|------------------------------------|
|                    | PRECIPITATION                     | OBSCURATION        | OTHER                              |
| BC Patches         | DZ Drizzle                        | BR Mist            | DS Duststorm                       |
| BL Blowing         | GR Hail                           | DU Widespread Dust | FC Funnel Cloud                    |
| DR Low Drifting    | GS Small Hail and/or Snow Pellets | FG Fog             | +FC Tornado Waterspout             |
| FZ Freezing        | IC Ice Crystals                   | FU Smoke           | PO Well-Developed Dust/Sand Whirls |
| MI Shallow         | PL Ice Pellets                    | HZ Haze            |                                    |
| PR Partial         | RA Rain                           | PY Spray           | SQ Squalls                         |
| SH Shower(s)       | SG Snow Grains                    | SA Sand            | SS Sandstorm                       |
| TS Thunderstorm    | SN Snow                           | VA Volcanic Ash    | GL Glaze                           |
| VC In the Vicinity | UP Unknown Precipitation          |                    |                                    |

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    ' ' = Moderate    '- ' = Light

## OAK RIDGE, TN AUGUST 2000

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

### ADDITIONAL NOTES:

| DATE                                      | SUNSHINE      |                  | CLOUDINESS (OKTAS) |           |            |           | VISIBILITY (MILES) |         | RESERVED |
|---|---------------|------------------|--------------------|-----------|------------|-----------|--------------------|---------|----------|
|   | TOTAL MINUTES | PERCENT POSSIBLE | SR–SS              |           | MN–MN      |           | MINIMUM            | MAXIMUM |          |
|   |               |                  | CEILOMETER         | SATELLITE | CEILOMETER | SATELLITE |                    |         |          |
| 01  |               |                  |                    |           |            |           | 4.00               | 10.00   |          |
| 02  |               |                  |                    |           |            |           | 1.50               | 10.00   |          |
| 03  |               |                  |                    |           |            |           | 6.00               | 10.00   |          |
| 04  |               |                  |                    |           |            |           | 6.00               | 10.00   |          |
| 05  |               |                  |                    |           |            |           | <.25               | 10.00   |          |
| 06  |               |                  |                    |           |            |           | 5.00               | 10.00   |          |
| 07  |               |                  |                    |           |            |           | 4.00               | 10.00   |          |
| 08  |               |                  |                    |           |            |           | 5.00               | 10.00   |          |
| 09  |               |                  |                    |           |            |           | .25                | 10.00   |          |
| 10  |               |                  |                    |           |            |           | 1.00               | 10.00   |          |
| 11  |               |                  |                    |           |            |           | 6.00               | 10.00   |          |
| 12  |               |                  |                    |           |            |           | 7.00               | 10.00   |          |
| 13  |               |                  |                    |           |            |           | 5.00               | 10.00   |          |
| 14  |               |                  |                    |           |            |           | 7.00               | 10.00   |          |
| 15  |               |                  |                    |           |            |           | 1.50               | 10.00   |          |
| 16  |               |                  |                    |           |            |           | 3.00               | 10.00   |          |
| 17  |               |                  |                    |           |            |           | .75                | 7.00    |          |
| 18  |               |                  |                    |           |            |           | 2.00               | 10.00   |          |
| 19  |               |                  |                    |           |            |           | 8.00               | 10.00   |          |
| 20  |               |                  |                    |           |            |           | 3.00               | 10.00   |          |
| 21  |               |                  |                    |           |            |           | 2.50               | 10.00   |          |
| 22  |               |                  |                    |           |            |           | 4.00               | 10.00   |          |
| 23  |               |                  |                    |           |            |           | 1.50               | 9.00    |          |
| 24  |               |                  |                    |           |            |           | 2.00               | 10.00   |          |
| 25  |               |                  |                    |           |            |           | 7.00               | 10.00   |          |
| 26  |               |                  |                    |           |            |           | .25                | 10.00   |          |
| 27  |               |                  |                    |           |            |           | 1.50               | 10.00   |          |
| 28  |               |                  |                    |           |            |           | .75                | 10.00   |          |
| 29  |               |                  |                    |           |            |           | 4.00               | 10.00   |          |
| 30  |               |                  |                    |           |            |           | 5.00               | 10.00   |          |
| 31  |               |                  |                    |           |            |           | 9.00               | 10.00   |          |
| <b>MONTHLY AVGS</b>                       |               |                  |                    |           |            |           | 3.95               | 9.87    |          |
| <b>SUNSHINE (MINUTES)</b>                 |               |                  |                    |           |            |           |                    |         |          |
| Total: Possible: Percent Possible:        |               |                  |                    |           |            |           |                    |         |          |
| <b>NUMBER OF DAYS WITH: SKY CONDITION</b> |               |                  |                    |           |            |           |                    |         |          |
| CLR PTLY CLDY CLOUDY MISSING              |               |                  |                    |           |            |           |                    |         |          |
| 31  |               |                  |                    |           |            |           |                    |         |          |
| <b>MINIMUM VISIBILITY (MILES)</b>         |               |                  |                    |           |            |           |                    |         |          |
| <=0.25 <=3.0 >=7.0                        |               |                  |                    |           |            |           |                    |         |          |
| 3 14 5                                    |               |                  |                    |           |            |           |                    |         |          |

# OBSERVATIONS AT 3-HOURLY INTERVALS

## OAK RIDGE, TN

AUGUST 2000

OQT

WBAN # 53868

| HOUR (LST) |           |                     | SATELLITE              |                   | WEATHER       | TEMPERATURE °F |           |          | WIND                    |              | PRESSURE (INCHES, HG) |         | HOUR (LST) |           |           | SATELLITE           |                        | WEATHER | TEMPERATURE °F    |          |           | WIND         |                         | PRESSURE (INCHES, HG) |                       |         |           |     |    |    |       |       |
|------------|-----------|---------------------|------------------------|-------------------|---------------|----------------|-----------|----------|-------------------------|--------------|-----------------------|---------|------------|-----------|-----------|---------------------|------------------------|---------|-------------------|----------|-----------|--------------|-------------------------|-----------------------|-----------------------|---------|-----------|-----|----|----|-------|-------|
|            | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT Oktas |               | DRY BULB       | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH)  | DIRECTION TENS OF DEG | STATION |            | SEA LEVEL | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) |         | EFF CLD AMT Oktas | DRY BULB | DEW POINT | WET BULB     | RELATIVE HUMIDITY (PCT) | SPEED (MPH)           | DIRECTION TENS OF DEG | STATION | SEA LEVEL |     |    |    |       |       |
|            |           |                     |                        |                   | SUNRISE: 0544 |                | AUG 01    |          |                         | SUNSET: 1942 |                       |         |            |           |           |                     | SUNRISE: 0549          |         | AUG 07            |          |           | SUNSET: 1936 |                         |                       |                       |         |           |     |    |    |       |       |
| 01         | BKN       | 040                 |                        |                   |               |                |           | 72       | 71                      | 71           | 97                    | 0       | 00         | 29.11     | 30.05     | 01                  | SCT                    | NC      |                   |          |           | 7.00         |                         |                       | 77                    | 73      | 74        | 88  | 0  | 00 | 29.09 | 30.01 |
| 04         | OVC       | 028                 |                        |                   |               |                |           | 71       | 70                      | 70           | 96                    | 0       | 00         | 29.11     | 30.05     | 04                  | CLR                    | NC      |                   |          |           | 6.00         | BR                      |                       | 75                    | 72      | 73        | 90  | 0  | 00 | 29.12 | 30.04 |
| 07         | OVC       | 024                 |                        |                   |               |                |           | 72       | 70                      | 71           | 94                    | 5       | 23         | 29.13     | 30.07     | 07                  | CLR                    | NC      |                   |          |           | 4.00         | BR                      |                       | 76                    | 72      | 73        | 88  | 0  | 00 | 29.15 | 30.08 |
| 10         | OVC       | 050                 |                        |                   |               |                |           | 76       | 71                      | 73           | 85                    | 6       | VR         | 29.14     | 30.08     | 10                  | SCT                    | NC      |                   |          |           | 6.00         | HZ                      |                       | 80                    | 72      | 74        | 76  | 7  | 25 | 29.17 | 30.10 |
| 13         | SCT       | NC                  |                        |                   |               |                |           | 82       | 70                      | 74           | 67                    | 5       | VR         | 29.12     | 30.05     | 13                  | FEW                    | NC      |                   |          |           | 4.00         | BR                      |                       | 81                    | 77      | 78        | 88  | 6  | 18 | 29.16 | 30.09 |
| 16         | FEW       | NC                  |                        |                   |               |                |           | 86       | 70                      | 75           | 59                    | 7       | VR         | 29.07     | 29.99     | 16                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 86                    | 74      | 77        | 67  | 5  | VR | 29.13 | 30.05 |
| 19         | FEW       | NC                  |                        |                   |               |                |           | 79       | 69                      | 72           | 72                    | 7       | 18         | 29.08     | 30.01     | 19                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 84                    | 75      | 78        | 74  | 3  | 26 | 29.10 | 30.03 |
| 22         | CLR       | NC                  |                        |                   |               |                |           | 75       | 69                      | 71           | 82                    | 5       | 21         | 29.10     | 30.03     | 22                  | CLR                    | NC      |                   |          |           | 8.00         |                         |                       | 79                    | 76      | 77        | 90  | 0  | 00 | 29.15 | 30.07 |
|            |           |                     |                        |                   | SUNRISE: 0545 |                | AUG 02    |          |                         | SUNSET: 1941 |                       |         |            |           |           |                     | SUNRISE: 0550          |         | AUG 08            |          |           | SUNSET: 1935 |                         |                       |                       |         |           |     |    |    |       |       |
| 01         | CLR       | NC                  |                        |                   |               |                |           | 73       | 69                      | 70           | 87                    | 3       | 17         | 29.10     | 30.03     | 01                  | CLR                    | NC      |                   |          |           | 8.00         |                         |                       | 76                    | 73      | 74        | 91  | 0  | 00 | 29.15 | 30.08 |
| 04         | FEW       | NC                  |                        |                   |               |                |           | 71       | 68                      | 69           | 90                    | 3       | VR         | 29.09     | 30.02     | 04                  | CLR                    | NC      |                   |          |           | 6.00         | BR                      |                       | 74                    | 72      | 73        | 94  | 0  | 00 | 29.14 | 30.06 |
| 07         | OVC       | 029                 |                        |                   |               |                |           | 73       | 69                      | 70           | 87                    | 0       | 00         | 29.11     | 30.05     | 07                  | CLR                    | NC      |                   |          |           | 5.00         | BR                      |                       | 74                    | 71      | 72        | 91  | 0  | 00 | 29.16 | 30.09 |
| 10         | OVC       | 015                 |                        |                   |               |                |           | 75       | 71                      | 72           | 88                    | 3       | VR         | 29.13     | 30.07     | 10                  | CLR                    | NC      |                   |          |           | 8.00         |                         |                       | 83                    | 74      | 77        | 74  | 8  | 22 | 29.17 | 30.09 |
| 13         | FEW       | NC                  |                        |                   |               |                |           | 82       | 72                      | 75           | 72                    | 7       | 19         | 29.09     | 30.03     | 13                  | BKN                    | 047     |                   |          |           | 9.00         |                         |                       | 89                    | 74      | 78        | 61  | 6  | VR | 29.12 | 30.04 |
| 16         | CLR       | NC                  |                        |                   |               |                |           | 77       | 71                      | 73           | 82                    | 5       | 16         | 29.07     | 30.01     | 16                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 83                    | 72      | 75        | 70  | 3  | VR | 29.09 | 30.02 |
| 19         | CLR       | NC                  |                        |                   |               |                |           | 73       | 71                      | 72           | 94                    | 3       | 20         | 29.06     | 29.99     | 19                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 82                    | 75      | 77        | 79  | 3  | 22 | 29.08 | 30.01 |
| 22         | CLR       | NC                  |                        |                   |               |                |           | 71       | 70                      | 70           | 96                    | 0       | 00         | 29.08     | 30.01     | 22                  | CLR                    | NC      |                   |          |           | 7.00         |                         |                       | 76                    | 75      | 75        | 97  | 0  | 00 | 29.13 | 30.06 |
|            |           |                     |                        |                   | SUNRISE: 0546 |                | AUG 03    |          |                         | SUNSET: 1940 |                       |         |            |           |           |                     | SUNRISE: 0551          |         | AUG 09            |          |           | SUNSET: 1934 |                         |                       |                       |         |           |     |    |    |       |       |
| 01         | FEW       | NC                  |                        |                   |               |                |           | 71       | 70                      | 70           | 96                    | 3       | VR         | 29.09     | 30.02     | 01                  | CLR                    | NC      |                   |          |           | 6.00         | BR                      |                       | 75                    | 73      | 74        | 94  | 0  | 00 | 29.12 | 30.04 |
| 04         | CLR       | NC                  |                        |                   |               |                |           | 70       | 70                      | 70           | 100                   | 0       | 00         | 29.08     | 30.01     | 04                  | VV                     | 001     |                   |          |           | 0.25         | FG                      |                       | 72                    | 72      | 72        | 100 | 0  | 00 | 29.12 | 30.05 |
| 07         | FEW       | NC                  |                        |                   | BR            |                |           | 71       | 69                      | 70           | 94                    | 0       | 00         | 29.12     | 30.06     | 07                  | VV                     | 001     |                   |          |           | 0.25         | FG                      |                       | 73                    | 73      | 73        | 100 | 0  | 00 | 29.15 | 30.08 |
| 10         | OVC       | 024                 |                        |                   |               |                |           | 76       | 71                      | 73           | 85                    | 3       | VR         | 29.14     | 30.08     | 10                  | CLR                    | NC      |                   |          |           | 9.00         |                         |                       | 83                    | 75      | 77        | 77  | 3  | 17 | 29.16 | 30.09 |
| 13         | FEW       | NC                  |                        |                   |               |                |           | 84       | 71                      | 75           | 65                    | 7       | VR         | 29.12     | 30.05     | 13                  | FEW                    | NC      |                   |          |           | 10.00        |                         |                       | 91                    | 75      | 79        | 59  | 3  | 18 | 29.12 | 30.05 |
| 16         | CLR       | NC                  |                        |                   |               |                |           | 87       | 69                      | 75           | 55                    | 0       | 00         | 29.07     | 29.99     | 16                  | BKN                    | 060     |                   |          |           | 9.00         |                         |                       | 94                    | 75      | 80        | 54  | 5  | VR | 29.08 | 29.99 |
| 19         | CLR       | NC                  |                        |                   |               |                |           | 75       | 69                      | 71           | 82                    | 0       | 00         | 29.08     | 30.01     | 19                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 90                    | 75      | 79        | 62  | 6  | 21 | 29.03 | 29.94 |
| 22         | CLR       | NC                  |                        |                   |               |                |           | 73       | 69                      | 70           | 87                    | 3       | 20         | 29.12     | 30.06     | 22                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 83                    | 76      | 78        | 79  | 3  | VR | 29.07 | 29.98 |
|            |           |                     |                        |                   | SUNRISE: 0547 |                | AUG 04    |          |                         | SUNSET: 1939 |                       |         |            |           |           |                     | SUNRISE: 0552          |         | AUG 10            |          |           | SUNSET: 1933 |                         |                       |                       |         |           |     |    |    |       |       |
| 01         | SCT       | NC                  |                        |                   |               |                |           | 70       | 69                      | 69           | 97                    | 0       | 00         | 29.12     | 30.05     | 01                  | BKN                    | 050     |                   |          |           | 8.00         |                         |                       | 78                    | 70      | 73        | 76  | 15 | 04 | 29.13 | 30.05 |
| 04         | FEW       | NC                  |                        |                   |               |                |           | 70       | 68                      | 69           | 93                    | 0       | 00         | 29.10     | 30.03     | 04                  | OVC                    | 030     |                   |          |           | 4.00         | -RA BR                  |                       | 68                    | 67      | 67        | 96  | 0  | 00 | 29.17 | 30.10 |
| 07         | FEW       | NC                  |                        |                   |               |                |           | 69       | 68                      | 68           | 96                    | 3       | 22         | 29.14     | 30.08     | 07                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 68                    | 67      | 67        | 96  | 7  | VR | 29.08 | 30.01 |
| 10         | BKN       | 045                 |                        |                   |               |                |           | 76       | 70                      | 72           | 82                    | 6       | 22         | 29.15     | 30.09     | 10                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 76                    | 68      | 71        | 77  | 3  | 23 | 29.11 | 30.03 |
| 13         | CLR       | NC                  |                        |                   |               |                |           | 79       | 69                      | 72           | 72                    | 3       | 07         | 29.14     | 30.08     | 13                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 85                    | 72      | 76        | 65  | 3  | VR | 29.08 | 30.00 |
| 16         | OVC       | 034                 |                        |                   |               |                |           | 81       | 70                      | 73           | 69                    | 6       | 13         | 29.08     | 30.02     | 16                  | BKN                    | 036     |                   |          |           | 10.00        |                         |                       | 86                    | 74      | 77        | 67  | 6  | 07 | 29.04 | 29.96 |
| 19         | FEW       | NC                  |                        |                   |               |                |           | 81       | 69                      | 73           | 67                    | 0       | 00         | 29.08     | 30.02     | 19                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 83                    | 75      | 77        | 77  | 0  | 00 | 29.03 | 29.96 |
| 22         | FEW       | NC                  |                        |                   |               |                |           | 74       | 72                      | 73           | 94                    | 0       | 00         | 29.12     | 30.06     | 22                  | OVC                    | 060     |                   |          |           | 7.00         |                         |                       | 77                    | 75      | 76        | 94  | 5  | 06 | 29.06 | 29.98 |
|            |           |                     |                        |                   | SUNRISE: 0548 |                | AUG 05    |          |                         | SUNSET: 1938 |                       |         |            |           |           |                     | SUNRISE: 0552          |         | AUG 11            |          |           | SUNSET: 1932 |                         |                       |                       |         |           |     |    |    |       |       |
| 01         | SCT       | NC                  |                        |                   |               |                |           | 70       | 70                      | 70           | 100                   | 0       | 00         | 29.11     | 30.05     | 01                  | BKN                    | 050     |                   |          |           | 6.00         | BR                      |                       | 74                    | 72      | 73        | 94  | 0  | 00 | 29.04 | 29.96 |
| 04         | FEW       | NC                  |                        |                   | BR            |                |           | 68       | 68                      | 68           | 100                   | 0       | 00         | 29.10     | 30.04     | 04                  | BKN                    | 060     |                   |          |           | 10.00        |                         |                       | 71                    | 67      | 68        | 87  | 0  | 00 | 29.06 | 29.98 |
| 07         | VV        | 001                 |                        |                   | FG            |                |           | 68       | 68                      | 68           | 100                   | 0       | 00         | 29.13     | 30.07     | 07                  | FEW                    | NC      |                   |          |           | 10.00        |                         |                       | 70                    | 66      | 67        | 87  | 0  | 00 | 29.08 | 30.01 |
| 10         | CLR       | NC                  |                        |                   |               |                |           | 77       | 71                      | 73           | 82                    | 0       | 00         | 29.12     | 30.06     | 10                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 79                    | 64      | 69        | 60  | 6  | VR | 29.08 | 30.01 |
| 13         | BKN       | 037                 |                        |                   |               |                |           | 84       | 70                      | 74           | 63                    | 0       | 00         | 29.08     | 30.01     | 13                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 83                    | 60      | 68        | 46  | 8  | 04 | 29.08 | 30.00 |
| 16         | BKN       | 050                 |                        |                   |               |                |           | 85       | 70                      | 75           | 61                    | 0       | 00         | 29.06     | 29.98     | 16                  | FEW                    | NC      |                   |          |           | 10.00        |                         |                       | 84                    | 60      | 69        | 44  | 6  | VR | 29.03 | 29.95 |
| 19         | CLR       | NC                  |                        |                   |               |                |           | 83       | 72                      | 75           | 70                    | 0       | 00         | 29.06     | 29.98     | 19                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 79                    | 61      | 68        | 54  | 3  | VR | 29.05 | 29.98 |
| 22         | CLR       | NC                  |                        |                   | BR            |                |           | 76       | 73                      | 74           | 91                    | 0       | 00         | 29.08     | 30.00     | 22                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 71                    | 63      | 66        | 76  | 0  | 00 | 29.08 | 30.00 |
|            |           |                     |                        |                   | SUNRISE: 0548 |                | AUG 06    |          |                         | SUNSET: 1937 |                       |         |            |           |           |                     | SUNRISE: 0553          |         | AUG 12            |          |           | SUNSET: 1931 |                         |                       |                       |         |           |     |    |    |       |       |
| 01         | SCT       | NC                  |                        |                   | BR            |                |           | 75       | 73                      | 74           | 94                    | 0       | 00         | 29.07     | 29.98     | 01                  | FEW                    | NC      |                   |          |           | 10.00        |                         |                       | 69                    | 63      | 65        | 81  | 0  | 00 | 29.08 | 30.00 |
| 04         | CLR       | NC                  |                        |                   |               |                |           | 74       | 72                      | 73           | 94                    | 0       | 00         | 29.06     | 29.98     | 04                  | CLR                    | NC      |                   |          |           | 9.00         |                         |                       | 64                    | 63      | 63        | 96  | 0  | 00 | 29.06 | 29.99 |
| 07         | BKN       | 120                 |                        |                   |               |                |           | 75       | 72                      | 73           | 90                    | 0       | 00         | 29.10     | 30.03     | 07                  | CLR                    | NC      |                   |          |           | 7.00         |                         |                       | 64                    | 62      | 63        | 93  | 0  | 00 | 29.06 | 30.00 |
| 10         | CLR       | NC                  |                        |                   |               |                |           | 80       | 72                      | 74           | 76                    | 5       | VR         | 29.11     | 30.04     | 10                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 78                    | 63      | 68        | 60  | 8  | 07 | 29.07 | 30.00 |
| 13         | CLR       | NC                  |                        |                   |               |                |           | 87       | 75                      | 78           | 67                    | 10      | 21         | 29.09     | 30.01     | 13                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 82                    | 57      | 66        | 43  | 9  | 05 | 29.06 | 29.98 |
| 16         | CLR       | NC                  |                        |                   |               |                |           | 91       | 75                      | 79           | 59                    | 9       | 18         | 29.06     | 29.97     | 16                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 82                    | 55      | 65        | 40  | 10 | 01 | 29.02 | 29.95 |
| 19         | SCT       | NC                  |                        |                   |               |                |           | 88       | 73                      | 77           | 61                    | 5       | 21         | 29.05     | 29.96     | 19                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 77                    | 58      | 65        | 52  | 5  | 02 | 29.02 | 29.95 |
| 22         | CLR       | NC                  |                        |                   |               |                |           | 80       | 74                      | 76           | 82                    | 0       | 00         | 29.10     | 30.02     | 22                  | CLR                    | NC      |                   |          |           | 10.00        |                         |                       | 68                    | 61      | 64        | 78  | 0  | 00 | 29.05 | 29.98 |

## OBSERVATIONS AT 3-HOURLY INTERVALS

## OAK RIDGE, TN

AUGUST 2000

OQT

WBAN # 53868

| HOUR (LST)    | SKY COVER |  | CEILING<br>100'S OF FT | SATELLITE                 |                     | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>° F |           |              | WIND                       |             | PRESSURE<br>(INCHES, HG) |         | HOUR (LST) | SKY COVER     |                           | CEILING<br>100'S OF FT | SATELLITE           |          | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>° F |          |                            | WIND         |                          | PRESSURE<br>(INCHES, HG) |              |  |  |
|---------------|-----------|--|------------------------|---------------------------|---------------------|-----------------------|---------|--------------------|-----------|--------------|----------------------------|-------------|--------------------------|---------|------------|---------------|---------------------------|------------------------|---------------------|----------|-----------------------|---------|--------------------|----------|----------------------------|--------------|--------------------------|--------------------------|--------------|--|--|
|               |           |  |                        | OBSERVATION<br>TIME (LST) | EFF CLD AMT<br>Okta |                       |         | DRY BULB           | DEW POINT | WET BULB     | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION<br>TENS OF DEG | STATION |            | SEA<br>LEVEL  | OBSERVATION<br>TIME (LST) |                        | EFF CLD AMT<br>Okta | DRY BULB |                       |         | DEW POINT          | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH)  | DIRECTION<br>TENS OF DEG | STATION                  | SEA<br>LEVEL |  |  |
| SUNRISE: 0554 |           |  |                        |                           |                     |                       |         | AUG 13             |           | SUNSET: 1930 |                            |             |                          |         |            | SUNRISE: 0559 |                           |                        |                     |          |                       |         |                    | AUG 19   |                            | SUNSET: 1923 |                          |                          |              |  |  |
| SUNRISE: 0555 |           |  |                        |                           |                     |                       |         | AUG 14             |           | SUNSET: 1929 |                            |             |                          |         |            | SUNRISE: 0560 |                           |                        |                     |          |                       |         |                    | AUG 20   |                            | SUNSET: 1921 |                          |                          |              |  |  |
| SUNRISE: 0556 |           |  |                        |                           |                     |                       |         | AUG 15             |           | SUNSET: 1927 |                            |             |                          |         |            | SUNRISE: 0600 |                           |                        |                     |          |                       |         |                    | AUG 21   |                            | SUNSET: 1920 |                          |                          |              |  |  |
| SUNRISE: 0556 |           |  |                        |                           |                     |                       |         | AUG 16             |           | SUNSET: 1926 |                            |             |                          |         |            | SUNRISE: 0601 |                           |                        |                     |          |                       |         |                    | AUG 22   |                            | SUNSET: 1919 |                          |                          |              |  |  |
| SUNRISE: 0557 |           |  |                        |                           |                     |                       |         | AUG 17             |           | SUNSET: 1925 |                            |             |                          |         |            | SUNRISE: 0602 |                           |                        |                     |          |                       |         |                    | AUG 23   |                            | SUNSET: 1917 |                          |                          |              |  |  |
| SUNRISE: 0558 |           |  |                        |                           |                     |                       |         | AUG 18             |           | SUNSET: 1924 |                            |             |                          |         |            | SUNRISE: 0603 |                           |                        |                     |          |                       |         |                    | AUG 24   |                            | SUNSET: 1916 |                          |                          |              |  |  |

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

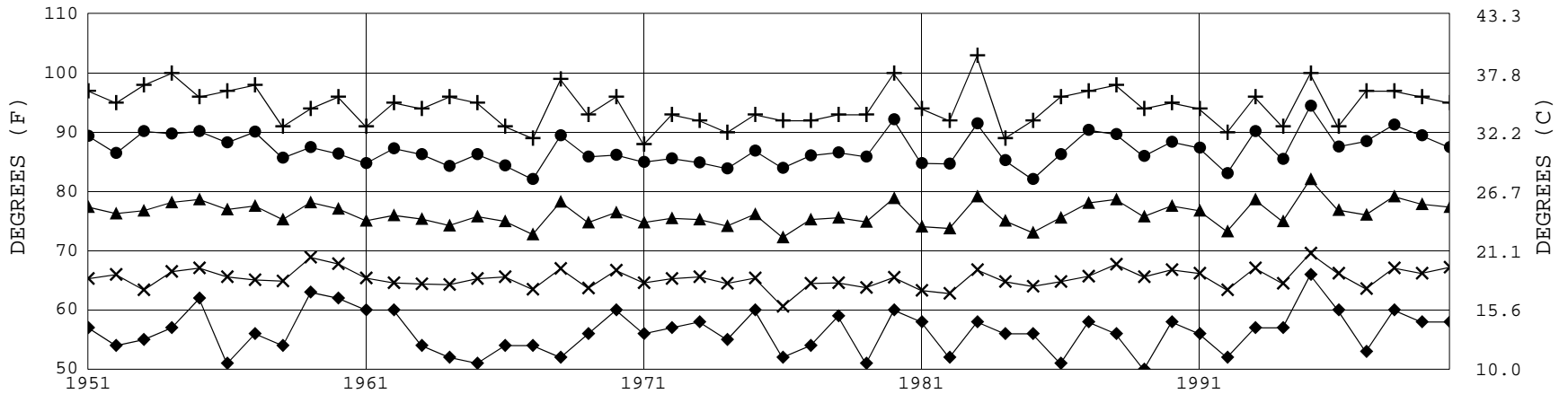
AUGUST 2000

OQT

WBAN # 53868

| HOUR (LST)    | SKY COVER |           | CEILING<br>100'S OF FT | SATELLITE |                         | WEATHER | TEMPERATURE °F |                          |         |           | WIND     |           | PRESSURE (INCHES, HG) |                         | HOUR (LST)   | SKY COVER   |                          | CEILING<br>100'S OF FT | SATELLITE |           | WEATHER                    | TEMPERATURE °F |    |    |    | WIND |    | PRESSURE (INCHES, HG) |       |  |  |  |  |  |              |  |  |  |  |  |  |
|---------------|-----------|-----------|------------------------|-----------|-------------------------|---------|----------------|--------------------------|---------|-----------|----------|-----------|-----------------------|-------------------------|--|-------------|--------------------------|------------------------|-----------|-----------|----------------------------|----------------|----|----|----|------|----|-----------------------|-------|--|--|--|--|--|--------------|--|--|--|--|--|--|
|               | DRY BULB  | DEW POINT |                        | WET BULB  | RELATIVE HUMIDITY (PCT) |         | SPEED (MPH)    | DIRECTION<br>TENS OF DEG | STATION | SEA LEVEL | DRY BULB | DEW POINT | WET BULB              | RELATIVE HUMIDITY (PCT) |  | SPEED (MPH) | DIRECTION<br>TENS OF DEG |                        | STATION   | SEA LEVEL |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| SUNRISE: 0603 |           |           |                        |           |                         |         | AUG 25         |                          |         |           |          |           |                       | SUNSET: 1915            |  |             |                          |                        |           |           | SUNRISE: 0608              |                |    |    |    |      |    | AUG 31                |       |  |  |  |  |  | SUNSET: 1907 |  |  |  |  |  |  |
| 01            | CLR       | NC        |                        |           |                         |         | 69             | 67                       | 68      | 93        | 0        | 00        | 29.15                 | 30.08                   | 01   | CLR         | NC                       |                        |           |           |                            | 71             | 67 | 68 | 87 | 0    | 00 | 29.00                 | 29.92 |  |  |  |  |  |              |  |  |  |  |  |  |
| 04            | CLR       | NC        |                        |           |                         |         | 65             | 64                       | 64      | 97        | 0        | 00        | 29.13                 | 30.06                   | 04   | CLR         | NC                       |                        |           |           |                            | 72             | 66 | 68 | 82 | 0    | 00 | 28.98                 | 29.89 |  |  |  |  |  |              |  |  |  |  |  |  |
| 07            | CLR       | NC        |                        |           |                         |         | 64             | 63                       | 63      | 96        | 0        | 00        | 29.16                 | 30.10                   | 07   | CLR         | NC                       |                        |           |           |                            | 72             | 66 | 68 | 82 | 0    | 00 | 28.99                 | 29.91 |  |  |  |  |  |              |  |  |  |  |  |  |
| 10            | SCT       | NC        |                        |           |                         |         | 79             | 68                       | 72      | 69        | 3        | VR        | 29.16                 | 30.09                   | 10   | CLR         | NC                       |                        |           |           |                            | 82             | 68 | 73 | 63 | 8    | 05 | 29.01                 | 29.93 |  |  |  |  |  |              |  |  |  |  |  |  |
| 13            | BKN       | 049       |                        |           |                         |         | 85             | 67                       | 73      | 55        | 5        | 10        | 29.13                 | 30.06                   | 13   | BKN         | 055                      |                        |           |           |                            | 88             | 67 | 74 | 50 | 3    | VR | 28.98                 | 29.90 |  |  |  |  |  |              |  |  |  |  |  |  |
| 16            | CLR       | NC        |                        |           |                         |         | 86             | 64                       | 71      | 48        | 5        | 18        | 29.07                 | 29.99                   | 16   | BKN         | 090                      |                        |           |           |                            | 89             | 65 | 73 | 45 | 6    | VR | 28.96                 | 29.87 |  |  |  |  |  |              |  |  |  |  |  |  |
| 19            | CLR       | NC        |                        |           |                         |         | 80             | 64                       | 70      | 58        | 0        | 00        | 29.05                 | 29.99                   | 19   | CLR         | NC                       |                        |           |           |                            | 84             | 66 | 72 | 55 | 5    | 08 | 28.97                 | 29.89 |  |  |  |  |  |              |  |  |  |  |  |  |
| 22            | CLR       | NC        |                        |           |                         |         | 71             | 63                       | 66      | 76        | 0        | 00        | 29.09                 | 30.03                   | 22   | FEW         | NC                       |                        |           |           |                            | 78             | 68 | 71 | 71 | 0    | 00 | 29.03                 | 29.94 |  |  |  |  |  |              |  |  |  |  |  |  |
| SUNRISE: 0604 |           |           |                        |           |                         |         | AUG 26         |                          |         |           |          |           |                       | SUNSET: 1913            |  |             |                          |                        |           |           | 3-HOURLY OBSERVATION NOTES |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 01            | CLR       | NC        |                        |           |                         |         | 67             | 63                       | 64      | 87        | 0        | 00        | 29.08                 | 30.01                   | Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8. |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 04            | CLR       | NC        |                        |           |                         |         | 63             | 62                       | 62      | 97        | 0        | 00        | 29.06                 | 29.99                   | Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.   |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 07            | VV        | 001       |                        |           |                         |         | 62             | 62                       | 62      | 100       | 0        | 00        | 29.08                 | 30.01                   | NC = No ceiling detected.  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 10            | FEW       | NC        |                        |           |                         |         | 76             | 66                       | 69      | 72        | 5        | 14        | 29.09                 | 30.02                   | & = Original observation contained additional weather elements.  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 13            | CLR       | NC        |                        |           |                         |         | 85             | 63                       | 71      | 48        | 6        | VR        | 29.07                 | 30.00                   | See page 3 for additional notes.   |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 16            | CLR       | NC        |                        |           |                         |         | 86             | 61                       | 70      | 43        | 7        | VR        | 29.02                 | 29.94                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 19            | CLR       | NC        |                        |           |                         |         | 81             | 66                       | 71      | 61        | 0        | 00        | 29.00                 | 29.93                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 22            | FEW       | NC        |                        |           |                         |         | 76             | 68                       | 71      | 77        | 0        | 00        | 29.02                 | 29.95                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| SUNRISE: 0605 |           |           |                        |           |                         |         | AUG 27         |                          |         |           |          |           |                       | SUNSET: 1912            |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 01            | BKN       | 110       |                        |           |                         |         | 75             | 68                       | 70      | 79        | 0        | 00        | 29.01                 | 29.93                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 04            | BKN       | 110       |                        |           |                         |         | 71             | 68                       | 69      | 90        | 0        | 00        | 28.99                 | 29.91                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 07            | OVC       | 047       |                        |           |                         |         | 71             | 69                       | 70      | 94        | 6        | 23        | 29.05                 | 29.98                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 10            | OVC       | 009       |                        |           |                         |         | 69             | 68                       | 68      | 96        | 3        | VR        | 29.08                 | 30.01                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 13            | BKN       | 022       |                        |           |                         |         | 76             | 67                       | 70      | 74        | 8        | 26        | 29.03                 | 29.95                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 16            | CLR       | NC        |                        |           |                         |         | 81             | 67                       | 72      | 62        | 7        | 26        | 28.97                 | 29.89                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 19            | CLR       | NC        |                        |           |                         |         | 78             | 67                       | 71      | 69        | 3        | 22        | 28.96                 | 29.89                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 22            | SCT       | NC        |                        |           |                         |         | 72             | 68                       | 69      | 87        | 0        | 00        | 29.00                 | 29.93                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| SUNRISE: 0606 |           |           |                        |           |                         |         | AUG 28         |                          |         |           |          |           |                       | SUNSET: 1911            |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 01            | CLR       | NC        |                        |           |                         |         | 69             | 67                       | 68      | 93        | 3        | VR        | 29.02                 | 29.95                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 04            | CLR       | NC        |                        |           |                         |         | 67             | 66                       | 66      | 97        | 0        | 00        | 29.02                 | 29.94                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 07            | OVC       | 065       |                        |           |                         |         | 67             | 66                       | 66      | 97        | 0        | 00        | 29.04                 | 29.97                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 10            | FEW       | NC        |                        |           |                         |         | 77             | 69                       | 72      | 77        | 3        | VR        | 29.05                 | 29.97                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 13            | BKN       | 050       |                        |           |                         |         | 85             | 69                       | 74      | 59        | 3        | VR        | 29.01                 | 29.93                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 16            | CLR       | NC        |                        |           |                         |         | 88             | 67                       | 74      | 50        | 7        | 08        | 28.99                 | 29.91                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 19            | CLR       | NC        |                        |           |                         |         | 81             | 64                       | 70      | 57        | 0        | 00        | 29.01                 | 29.94                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 22            | CLR       | NC        |                        |           |                         |         | 72             | 66                       | 68      | 82        | 0        | 00        | 29.02                 | 29.95                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| SUNRISE: 0607 |           |           |                        |           |                         |         | AUG 29         |                          |         |           |          |           |                       | SUNSET: 1909            |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 01            | CLR       | NC        |                        |           |                         |         | 71             | 65                       | 67      | 81        | 0        | 00        | 29.05                 | 29.97                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 04            | FEW       | NC        |                        |           |                         |         | 68             | 66                       | 67      | 93        | 0        | 00        | 29.05                 | 29.98                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 07            | CLR       | NC        |                        |           |                         |         | 67             | 65                       | 66      | 93        | 0        | 00        | 29.08                 | 30.02                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 10            | BKN       | 110       |                        |           |                         |         | 77             | 66                       | 70      | 69        | 3        | VR        | 29.09                 | 30.03                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 13            | CLR       | NC        |                        |           |                         |         | 86             | 67                       | 73      | 53        | 0        | 00        | 29.06                 | 29.98                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 16            | CLR       | NC        |                        |           |                         |         | 90             | 60                       | 70      | 37        | 6        | VR        | 29.00                 | 29.92                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 19            | CLR       | NC        |                        |           |                         |         | 83             | 66                       | 72      | 57        | 0        | 00        | 29.00                 | 29.93                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 22            | CLR       | NC        |                        |           |                         |         | 73             | 66                       | 69      | 79        | 0        | 00        | 29.04                 | 29.97                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| SUNRISE: 0607 |           |           |                        |           |                         |         | AUG 30         |                          |         |           |          |           |                       | SUNSET: 1908            |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 01            | CLR       | NC        |                        |           |                         |         | 69             | 66                       | 67      | 90        | 0        | 00        | 29.04                 | 29.96                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 04            | CLR       | NC        |                        |           |                         |         | 66             | 65                       | 65      | 96        | 0        | 00        | 29.05                 | 29.97                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 07            | CLR       | NC        |                        |           |                         |         | 66             | 65                       | 65      | 96        | 3        | 07        | 29.08                 | 30.02                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 10            | FEW       | NC        |                        |           |                         |         | 78             | 66                       | 70      | 67        | 8        | 09        | 29.09                 | 30.03                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 13            | CLR       | NC        |                        |           |                         |         | 87             | 65                       | 72      | 48        | 10       | 05        | 29.05                 | 29.97                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 16            | FEW       | NC        |                        |           |                         |         | 89             | 64                       | 72      | 43        | 13       | 03        | 29.00                 | 29.92                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 19            | CLR       | NC        |                        |           |                         |         | 83             | 65                       | 71      | 55        | 0        | 00        | 29.00                 | 29.92                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |
| 22            | CLR       | NC        |                        |           |                         |         | 74             | 67                       | 69      | 79        | 0        | 00        | 29.02                 | 29.94                   |  |             |                          |                        |           |           |                            |                |    |    |    |      |    |                       |       |  |  |  |  |  |              |  |  |  |  |  |  |

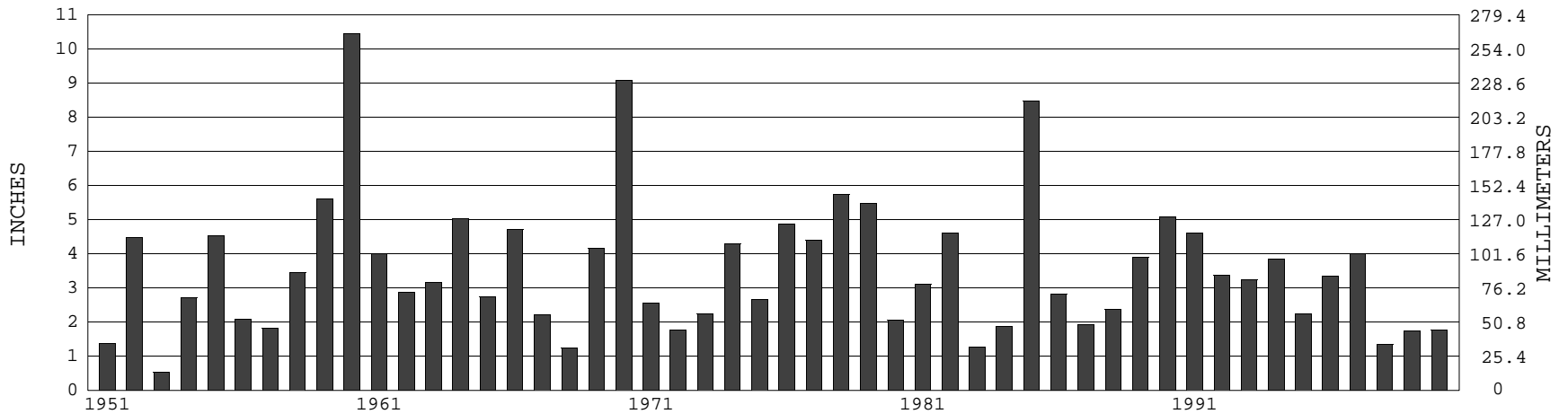
### OAK RIDGE, TN AUGUST TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1951-2000) Mean: 76.3      1961-1990 Normal: 75.2

### OAK RIDGE, TN AUGUST PRECIPITATION



Long-Term (1951-2000) Mean Monthly Total: 3.55

1961-1990 Normal: 3.70



**AUGUST 2000  
OAK RIDGE, TN**

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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