



# JANUARY 2006 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

OAK RIDGE, TN  
OAK RIDGE (OQT)  
Lat: 36° 1' N Long: 84° 14' W Elev (Ground) 913 Feet  
Time Zone : EASTERN WBAN: 53868 ISSN#: -



# JANUARY 2006 OAK RIDGE, TN

| Date | Temperature °F |         |         |                    |                   |                     | Deg Days<br>BASE 65° |         | WEATHER                        | SNOW/ICE                           |             |             |                | PRECIPITATION |                |                    |                      | PRESSURE<br>(INCHES OF HG) |         | WIND   |             |     |       | Date                           |       |                                |  |
|------|----------------|---------|---------|--------------------|-------------------|---------------------|----------------------|---------|--------------------------------|------------------------------------|-------------|-------------|----------------|---------------|----------------|--------------------|----------------------|----------------------------|---------|--|-------------|-----|-------|--------------------------------|-------|--------------------------------|--|
|      | MAXIMUM        | MINIMUM | AVERAGE | DEF FROM<br>NORMAL | AVERAGE<br>DEW PT | AVERAGE<br>WET BULB | HEATING              | COOLING |                                | DEPTH                              | ON GND(IN)  |             | WATER<br>EQUIV | SNOW-<br>FALL | WATER<br>EQUIV | AVERAGE<br>STATION | AVERAGE<br>SEA LEVEL | RESIDUAL                   | RES DIR | SPEED = MPH                                    |             | DIR |       |                                |       |                                |  |
|      |                |         |         |                    |                   |                     |                      |         |                                |                                    | 0700<br>LST | 1300<br>LST |                |               |                |                    |                      |                            |         | 2400<br>LST                                    | 2400<br>LST |     | 5-SEC |                                | 2-MIN |                                |  |
| 1    | 59             | 28      | 44      | 7                  | 32                | 38                  | 21                   | 0       | BR                             |                                    |             |             |                |               | 29.05          | 30.04              | 0.0                  | 22                         | 18      | 19   | 20          | 21  | 22    | 23                             | 24    |                                |  |
| 01   | 61             | 48      | 55      | 18                 | 48                | 51                  | 10                   | 0       | RA BR                          |                                    |             |             |                | 0.00          | 29.05          | 30.04              | 0.0                  | 22                         | 18      | 19   | 20          | 21  | 22    | 23                             | 24    |                                |  |
| 02   | 54             | 42      | 48      | 11                 | 40                | 44                  | 17                   | 0       | RA                             |                                    |             |             |                | 0.97          | 28.82          | 29.79              | 0.8                  | 25                         | 2.2     | 2.2  | 2.2         | 2.2 | 2.2   | 2.2                            | 2.2   |                                |  |
| 03   | 54             | 42      | 48      | 11                 | 40                | 44                  | 17                   | 0       | RA                             |                                    |             |             |                | T             | 28.95          | 29.96              | 1.4                  | 26                         | 3.3     | 3.3  | 3.3         | 3.3 | 3.3   | 3.3                            | 3.3   |                                |  |
| 04   | 57             | 34      | 46      | 9                  | 33                | 42                  | 19                   | 0       | FG+ FG BR                      |                                    |             |             |                | 0.00          | 29.00          | 29.99              | 1.1                  | 23                         | 2.1     | 2.1  | 2.1         | 2.1 | 2.1   | 2.1                            | 2.1   |                                |  |
| 05   | 46             | 34      | 40      | 3                  | 39                | 37                  | 25                   | 0       | RA BR                          |                                    |             |             |                | T             | 28.93          | 29.94              | 2.7                  | 34                         | 3.1     | 3.1  | 3.1         | 3.1 | 3.1   | 3.1                            | 3.1   |                                |  |
| 06   | 38             | 32      | 35      | -1                 | 24                | 31                  | 30                   | 0       | RA BR                          |                                    |             |             |                | 0.02          | 29.03          | 30.06              | 3.7                  | 34                         | 5.0     | 5.0  | 5.0         | 5.0 | 5.0   | 5.0                            | 5.0   |                                |  |
| 07   | 44             | 29      | 37      | 1                  | 22                | 30                  | 28                   | 0       | 0.00                           | 29.08                              | 30.10       | 0.00        | 0.00           | 0.00          | 29.03          | 30.03              | 5.4                  | 23                         | 7.4     | 7.4  | 7.4         | 7.4 | 7.4   | 7.4                            |       |                                |  |
| 08   | 60             | 29      | 45      | 9                  | 31                | 40                  | 20                   | 0       | 0.00                           | 29.03                              | 30.03       | 0.00        | 0.00           | 0.00          | 29.18          | 30.19              | 2.9                  | 22                         | 4.4     | 4.4  | 4.4         | 4.4 | 4.4   | 4.4                            |       |                                |  |
| 09   | 67*            | 51      | 59*     | 23                 | 49                | 53                  | 6                    | 0       | 0.00                           | 29.18                              | 30.19       | 0.00        | 0.04           | 0.04          | 29.29          | 30.26              | 0.2                  | 06                         | 0.8     | 0.8  | 0.8         | 0.8 | 0.8   | 0.8                            |       |                                |  |
| 10   | 61             | 47      | 54      | 18                 | 48                | 51                  | 11                   | 0       | RA BR                          |                                    |             |             |                | 0.54          | 29.12          | 30.11              | 3.7                  | 23                         | 4.6     | 4.6  | 4.6         | 4.6 | 4.6   | 4.6                            |       |                                |  |
| 11   | 60             | 38      | 49      | 13                 | 43                | 47                  | 16                   | 0       | RA BR                          |                                    |             |             |                | 0.00          | 29.08          | 30.08              | 1.4                  | 23                         | 2.0     | 2.0  | 2.0         | 2.0 | 2.0   | 2.0                            | 2.0   |                                |  |
| 12   | 61             | 30      | 46      | 10                 | 35                | 40                  | 19                   | 0       | FG+ FG FZFG BR                 |                                    |             |             |                | 0.36          | 28.82          | 29.79              | 3.2                  | 25                         | 4.7     | 4.7  | 4.7         | 4.7 | 4.7   | 4.7                            | 4.7   |                                |  |
| 13   | 57             | 36      | 47      | 11                 | 39                | 42                  | 18                   | 0       | RA SN BR                       |                                    |             |             |                | 0.02          | 28.93          | 29.98              | 4.8                  | 30                         | 6.8     | 6.8  | 6.8         | 6.8 | 6.8   | 6.8                            | 6.8   |                                |  |
| 14   | 38             | 31      | 35*     | -1                 | 25                | 31                  | 30                   | 0       | RA SN BR UP                    |                                    |             |             |                | 0.00          | 29.10          | 30.11              | 0.1                  | 27                         | 1.4     | 1.4  | 1.4         | 1.4 | 1.4   | 1.4                            | 1.4   |                                |  |
| 15   | 47             | 25      | 36      | 0                  | 24                | 32                  | 29                   | 0       | RA                             |                                    |             |             |                | 0.14          | 28.91          | 29.90              | 1.2                  | 24                         | 3.1     | 3.1  | 3.1         | 3.1 | 3.1   | 3.1                            | 3.1   |                                |  |
| 16   | 55             | 35      | 45      | 9                  | 34                | 40                  | 20                   | 0       | RA BR                          |                                    |             |             |                | 1.96          | 28.69          | 29.65              | 1.5                  | 21                         | 3.6     | 3.6  | 3.6         | 3.6 | 3.6   | 3.6                            | 3.6   |                                |  |
| 17   | 54             | 37      | 46      | 10                 | 48                | 49                  | 19                   | 0       | RA SN BR                       |                                    |             |             |                | T             | 29.07          | 30.13              | 5.8                  | 24                         | 7.1     | 7.1  | 7.1         | 7.1 | 7.1   | 7.1                            | 7.1   |                                |  |
| 18   | 46             | 30      | 38      | 2                  | 23                | 31                  | 27                   | 0       | SN UP                          |                                    |             |             |                | 0.00          | 29.30          | 30.31              | 2.8                  | 22                         | 4.0     | 4.0  | 4.0         | 4.0 | 4.0   | 4.0                            | 4.0   |                                |  |
| 19   | 61             | 30      | 46      | 10                 | 28                | 37                  | 19                   | 0       | RA                             |                                    |             |             |                | T             | 29.28          | 30.27              | 2.7                  | 21                         | 4.1     | 4.1  | 4.1         | 4.1 | 4.1   | 4.1                            | 4.1   |                                |  |
| 20   | 62             | 35      | 49      | 12                 | 34                | 43                  | 16                   | 0       | RA                             |                                    |             |             |                | 0.12          | 29.26          | 30.27              | 1.4                  | 04                         | 4.0     | 4.0  | 4.0         | 4.0 | 4.0   | 4.0                            | 4.0   |                                |  |
| 21   | 55             | 42      | 49      | 12                 | 46                | 48                  | 16                   | 0       | RA BR                          |                                    |             |             |                | 0.19          | 29.34          | 30.31              | 3.0                  | 05                         | 3.1     | 3.1  | 3.1         | 3.1 | 3.1   | 3.1                            | 3.1   |                                |  |
| 22   | 49             | 43      | 46      | 9                  | 42                | 44                  | 19                   | 0       | RA BR                          |                                    |             |             |                | 0.50          | 29.10          | 30.09              | 0.4                  | 21                         | 4.0     | 4.0  | 4.0         | 4.0 | 4.0   | 4.0                            | 4.0   |                                |  |
| 23   | 53             | 47      | 50      | 13                 | 48                | 49                  | 15                   | 0       | RA BR                          |                                    |             |             |                | 0.00          | 29.08          | 30.07              | 4.7                  | 23                         | 5.8     | 5.8  | 5.8         | 5.8 | 5.8   | 5.8                            | 5.8   |                                |  |
| 24   | 56             | 38      | 47      | 10                 | 33                | 41                  | 18                   | 0       | BR                             |                                    |             |             |                | 0.00          | 29.24          | 30.30              | 2.7                  | 31                         | 4.9     | 4.9  | 4.9         | 4.9 | 4.9   | 4.9                            | 4.9   |                                |  |
| 25   | 50             | 28      | 39      | 2                  | 18                | 32                  | 26                   | 0       | RA                             |                                    |             |             |                | 0.00          | 29.49          | 30.54              | 2.3                  | 06                         | 3.1     | 3.1  | 3.1         | 3.1 | 3.1   | 3.1                            | 3.1   |                                |  |
| 26   | 48             | 24*     | 36      | -1                 | 21                | 30                  | 29                   | 0       | RA BR                          |                                    |             |             |                | 0.00          | 29.54          | 30.56              | 0.4                  | 02                         | 2.6     | 2.6  | 2.6         | 2.6 | 2.6   | 2.6                            | 2.6   |                                |  |
| 27   | 54             | 28      | 41      | 4                  | 25                | 34                  | 24                   | 0       | RA BR                          |                                    |             |             |                | 0.00          | 29.39          | 30.35              | 0.9                  | 20                         | 3.4     | 3.4  | 3.4         | 3.4 | 3.4   | 3.4                            | 3.4   |                                |  |
| 28   | 61             | 37      | 49      | 12                 | 28                | 40                  | 16                   | 0       | RA BR                          |                                    |             |             |                | 0.33          | 28.90          | 29.85              | 7.0                  | 21                         | 8.8     | 8.8  | 8.8         | 8.8 | 8.8   | 8.8                            | 8.8   |                                |  |
| 29   | 65             | 47      | 56      | 19                 | 43                | 50                  | 9                    | 0       | RA BR                          |                                    |             |             |                | 0.15          | 28.83          | 29.82              | 1.2                  | 27                         | 2.3     | 2.3  | 2.3         | 2.3 | 2.3   | 2.3                            | 2.3   |                                |  |
| 30   | 61             | 34      | 48      | 10                 | 36                | 41                  | 17                   | 0       | RA                             |                                    |             |             |                | 0.00          | 28.92          | 30.05              | 0.8                  | 35                         | 3.5     | 3.5  | 3.5         | 3.5 | 3.5   | 3.5                            | 3.5   |                                |  |
| 31   | 49             | 30      | 40      | 2                  | 28                | 35                  | 25                   | 0       | RA                             |                                    |             |             |                | 5.34          | 29.09          | 30.09              | 1.4                  | 25                         | 3.9     | 3.9  | 3.9         | 3.9 | 3.9   | 3.9                            | 3.9   |                                |  |
| 54.5 | 35.5           | 45.0    |         |                    | 34.4              | 40.4                | 19.8                 | 0.0     | < MONTHLY AVERAGES   TOTALS >  |                                    |             |             |                | 0.21          | 29.09          | 30.09              | 1.4                  | 25                         | 3.9     | 3.9  | 3.9         | 3.9 | 3.9   | 3.9                            | 3.9   |                                |  |
| 8.6  | 8.3            | 8.4     |         |                    |                   |                     |                      |         | < MONTHLY AVERAGES FROM NORMAL |                                    |             |             |                | 0.21          | 29.09          | 30.09              | 1.4                  | 25                         | 3.9     | 3.9  | 3.9         | 3.9 | 3.9   | 3.9                            | 3.9   |                                |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | DEPARTURE FROM NORMAL              |             |             |                |               |                |                    |                      |                            |         | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 |             |     |       |                                |       |                                |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | GREATEST 24-HR PRECIPITATION: 2.05 |             |             |                |               |                |                    |                      |                            |         | SEA LEVEL PRESSURE                             |             |     |       | DATE                           |       | TIME                           |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | GREATEST 24-HR SNOWFALL:           |             |             |                |               |                |                    |                      |                            |         | MAXIMUM: 30.64                                 |             |     |       | DATE: 27                       |       | 1053                           |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | GREATEST SNOW DEPTH:               |             |             |                |               |                |                    |                      |                            |         | MINIMUM: 29.53                                 |             |     |       | DATE: 17                       |       | 1553                           |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | NUMBER OF DAYS WITH ->             |             |             |                |               |                |                    |                      |                            |         | MAXIMUM TEMP >= 90: 0                          |             |     |       | MINIMUM TEMP <= 32: 13         |       | PRECIPITATION >= 0.01 INCH: 13 |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | TOTAL DEPARTURE                    |             |             |                |               |                |                    |                      |                            |         | TOTAL DEPARTURE                                |             |     |       | THUNDERSTORMS: 0               |       | HEAVY FOG: 0                   |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | MONTHLY                            |             |             |                |               |                |                    |                      |                            |         | TOTAL DEPARTURE                                |             |     |       | PRECIPITATION >= 0.10 INCH: 10 |       | SNOWFALL >= 1.0 INCH: 0        |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | HEATING: 614                       |             |             |                |               |                |                    |                      |                            |         | TOTAL DEPARTURE                                |             |     |       | PRECIPITATION >= 0.10 INCH: 10 |       | SNOWFALL >= 1.0 INCH: 0        |  |
|      |                |         |         |                    |                   |                     |                      |         |                                | COOLING: 0                         |             |             |                |               |                |                    |                      |                            |         | TOTAL DEPARTURE                                |             |     |       | PRECIPITATION >= 0.10 INCH: 10 |       | SNOWFALL >= 1.0 INCH: 0        |  |

# HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (OQT)  
JANUARY 2006

WBAN # 53868

| Date | FOR HOUR (LST) ENDING AT |   |      |   |   |   |      |      |      |      |      |      | FOR HOUR (LST) ENDING AT |    |    |    |      |      |    |      |    |    |    |      | Sum of Hourly Data | 2400 LST Water Equiv. |
|------|--------------------------|---|------|---|---|---|------|------|------|------|------|------|--------------------------|----|----|----|------|------|----|------|----|----|----|------|--------------------|-----------------------|
|      | 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   | T                        |   |      |   |   |   | 0.02 | 0.07 | 0.37 | 0.03 | 0.01 | 0.12 | T                        | T  |    |    | 0.24 | 0.08 | T  | 0.03 |    |    |    | 0.00 |                    |                       |
| 02   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.97 |                    |                       |
| 03   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | T    |                    |                       |
| 04   |                          |   |      | T |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 05   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | T    |                    |                       |
| 06   |                          |   | 0.02 |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.02 |                    |                       |
| 07   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 08   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 09   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 10   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.04 |                    |                       |
| 11   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.54 |                    |                       |
| 12   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 13   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.36 |                    |                       |
| 14   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.02 |                    |                       |
| 15   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 16   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.14 |                    |                       |
| 17   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 1.96 |                    |                       |
| 18   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | T    |                    |                       |
| 19   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 20   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | T    |                    |                       |
| 21   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.12 |                    |                       |
| 22   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.19 |                    |                       |
| 23   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.50 |                    |                       |
| 24   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 25   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 26   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 27   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 28   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.00 |                    |                       |
| 29   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.33 |                    |                       |
| 30   |                          |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.15 |                    |                       |
| 31   | 0.01                     |   |      |   |   |   |      |      |      |      |      |      |                          |    |    |    |      |      |    |      |    |    |    | 0.01 |                    |                       |

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes)  | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|------------------------|---|----|----|----|----|----|----|----|-----|-----|-----|-----|
| Precipitation (Inches) |   |    |    |    |    |    |    |    |     |     |     |     |
| Ending Date            |   |    |    |    |    |    |    |    |     |     |     |     |
| Ending Time (Hr/Min)   |   |    |    |    |    |    |    |    |     |     |     |     |

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

# 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 1971-2000

## WEATHER NOTATIONS

| QUALIFIER          | WEATHER PHENOMENA                 |                    |                                    |       |
|--------------------|-----------------------------------|--------------------|------------------------------------|-------|
|                    | PRECIPITATION                     | OBSCURATION        | OTHER                              | 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 JANUARY 2006

Ceilmeter (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) |         |
|-------------------------------------|---------------|------------------|--------------------|-----------------|-----------------|--------------------|--------------------|---------|
|                                     | TOTAL MINUTES | PERCENT POSSIBLE | SR-SS Sky Cover    | SR-SS Satellite | MN-MN Sky Cover | MN-MN Satellite    | MINIMUM            | MAXIMUM |
| 01                                  |               |                  |                    |                 |                 |                    | 6.00               | 10.00   |
| 02                                  |               |                  |                    |                 |                 |                    | 1.25               | 10.00   |
| 03                                  |               |                  |                    |                 |                 |                    | 8.00               | 10.00   |
| 04                                  |               |                  |                    |                 |                 |                    | 0.25               | 10.00   |
| 05                                  |               |                  |                    |                 |                 |                    | 3.00               | 10.00   |
| 06                                  |               |                  |                    |                 |                 |                    | 4.00               | 10.00   |
| 07                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 08                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 09                                  |               |                  |                    |                 |                 |                    | 8.00               | 10.00   |
| 10                                  |               |                  |                    |                 |                 |                    | 1.25               | 10.00   |
| 11                                  |               |                  |                    |                 |                 |                    | 3.00               | 10.00   |
| 12                                  |               |                  |                    |                 |                 |                    | 0.25               | 10.00   |
| 13                                  |               |                  |                    |                 |                 |                    | 2.50               | 10.00   |
| 14                                  |               |                  |                    |                 |                 |                    | 2.50               | 10.00   |
| 15                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 16                                  |               |                  |                    |                 |                 |                    | 4.00               | 10.00   |
| 17                                  |               |                  |                    |                 |                 |                    | 1.25               | 10.00   |
| 18                                  |               |                  |                    |                 |                 |                    | 4.00               | 10.00   |
| 19                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 20                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 21                                  |               |                  |                    |                 |                 |                    | 3.00               | 10.00   |
| 22                                  |               |                  |                    |                 |                 |                    | 2.00               | 10.00   |
| 23                                  |               |                  |                    |                 |                 |                    | 3.00               | 10.00   |
| 24                                  |               |                  |                    |                 |                 |                    | 4.00               | 10.00   |
| 25                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 26                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 27                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 28                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 29                                  |               |                  |                    |                 |                 |                    | 3.00               | 10.00   |
| 30                                  |               |                  |                    |                 |                 |                    | 10.00              | 10.00   |
| 31                                  |               |                  |                    |                 |                 |                    | 9.00               | 10.00   |
| MONTHLY AVGS                        |               |                  |                    |                 |                 |                    |                    |         |
| SUNSHINE (Minutes)                  |               |                  |                    |                 |                 |                    |                    |         |
| Total :                             |               |                  | Possible :         |                 |                 | Percent Possible : |                    |         |
|                                     |               |                  |                    |                 |                 | 5.59               |                    |         |
| NUMBER OF DAYS WITH : SKY CONDITION |               |                  |                    |                 |                 |                    |                    |         |
| Clear                               |               |                  | Partly CLDY        |                 |                 | Cloudy Missing     |                    |         |
| MINIMUM VISIBILITY (MILES)          |               |                  |                    |                 |                 |                    |                    |         |
| <= .25                              |               |                  | <= 3.0             |                 |                 | >= 7.0             |                    |         |
| 2                                   |               |                  | 13                 |                 |                 | 13                 |                    |         |

# OAK RIDGE, TN JANUARY 2006

# OBSERVATIONS AT 3-HOURLY INTERVALS

WBAN # 53868

| HOUR (LST)                      | SKY COVER | CEILING<br>100's of FT. | SATELLITE<br>Observation<br>Time (LST) | SATELLITE<br>Eff Clid Amt<br>Okas | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |           |          | WIND<br>SPEED (MPH) | WIND<br>DIRECTION | PRESSURE<br>(INCHES, HG) | STATION | SEA<br>LEVEL |  |
|---------------------------------|-----------|-------------------------|--|-----------------------------------|-----------------------|---------|-------------------|-----------|----------|---------------------|-------------------|--------------------------|---------|--------------|--|
|                                 |           |                         |  |                                   |                       |         | DRY BULB          | DEW POINT | WET BULB |                     |                   |                          |         |              |  |
| JAN 01                          |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| SUNRISE: 0747      SUNSET: 1733 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 33                | 29        | 31       | 85                  | 0                 | 29.06                    | 30.06   |              |  |
| 04                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 29                | 27        | 28       | 92                  | 0                 | 29.06                    | 30.06   |              |  |
| 07                              | CLR NC    | NC                      |  |                                   | 7.00                  |         | 28                | 26        | 27       | 92                  | 0                 | 29.10                    | 30.11   |              |  |
| 10                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 36                | 33        | 35       | 89                  | 3                 | 29.13                    | 30.14   |              |  |
| 13                              | SCT 050   | NC                      |  |                                   | 10.00                 |         | 53                | 31        | 43       | 43                  | 0                 | 29.07                    | 30.06   |              |  |
| 16                              | BKN 050   | NC                      |  |                                   | 10.00                 |         | 58                | 33        | 46       | 39                  | 0                 | 29.01                    | 29.99   |              |  |
| 19                              | BKN 048   | NC                      |  |                                   | 10.00                 |         | 51                | 37        | 44       | 59                  | 0                 | 28.99                    | 29.98   |              |  |
| 22                              | OVC 033   | NC                      |  |                                   | 10.00                 |         | 51                | 36        | 44       | 57                  | 3                 | 29.00                    | 29.98   |              |  |
| SUNRISE: 0747      SUNSET: 1734 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | OVC 033   | NC                      |  |                                   | 10.00                 |         | 51                | 40        | 46       | 66                  | 0                 | 28.97                    | 29.94   |              |  |
| 04                              | OVC 032   | NC                      |  |                                   | 10.00                 |         | 50                | 41        | 46       | 71                  | 0                 | 28.94                    | 29.91   |              |  |
| 07                              | OVC 039   | NC                      |  |                                   | 10.00                 |         | 48                | 45        | 47       | 89                  | 0                 | 28.89                    | 29.87   |              |  |
| 10                              | OVC 060   | NC                      |  |                                   | 4.00                  | BR      | 50                | 48        | 49       | 93                  | 0                 | 28.87                    | 29.85   |              |  |
| 13                              | OVC 034   | NC                      |  |                                   | 4.00                  | BR      | 54                | 52        | 53       | 93                  | 0                 | 28.78                    | 29.75   |              |  |
| 16                              | BKN 032   | NC                      |  |                                   | 10.00                 |         | 59                | 54        | 56       | 84                  | 0                 | 28.70                    | 29.65   |              |  |
| 19                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 59                | 56        | 57       | 90                  | 9                 | 28.67                    | 29.62   |              |  |
| 22                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 57                | 50        | 53       | 78                  | 3                 | 28.74                    | 29.71   |              |  |
| SUNRISE: 0747      SUNSET: 1735 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | SCT 110   | NC                      |  |                                   | 10.00                 |         | 53                | 41        | 47       | 64                  | 5                 | 28.77                    | 29.74   |              |  |
| 04                              | OVC 038   | NC                      |  |                                   | 8.00                  | -RA     | 50                | 42        | 46       | 74                  | 6                 | 28.83                    | 29.80   |              |  |
| 07                              | OVC 028   | NC                      |  |                                   | 10.00                 |         | 47                | 41        | 44       | 80                  | 7                 | 28.90                    | 29.87   |              |  |
| 10                              | BKN 038   | NC                      |  |                                   | 10.00                 |         | 47                | 39        | 43       | 74                  | 6                 | 29.00                    | 29.97   |              |  |
| 13                              | OVC 026   | NC                      |  |                                   | 10.00                 |         | 48                | 40        | 44       | 74                  | 3                 | 29.03                    | 30.01   |              |  |
| 16                              | OVC 022   | NC                      |  |                                   | 10.00                 |         | 49                | 40        | 45       | 71                  | 3                 | 29.05                    | 30.03   |              |  |
| 19                              | OVC 026   | NC                      |  |                                   | 10.00                 |         | 48                | 40        | 44       | 74                  | 0                 | 29.10                    | 30.08   |              |  |
| 22                              | OVC 022   | NC                      |  |                                   | 10.00                 |         | 47                | 40        | 44       | 77                  | 0                 | 29.10                    | 30.09   |              |  |
| SUNRISE: 0747      SUNSET: 1736 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | CLR NC    | NC                      |  |                                   | 7.00                  |         | 40                | 38        | 39       | 93                  | 0                 | 29.08                    | 30.09   |              |  |
| 04                              | OVC 006   | NC                      |  |                                   | 0.25                  | FG      | 36                | 35        | 36       | 96                  | 0                 | 29.09                    | 30.06   |              |  |
| 07                              | VV 001    | NC                      |  |                                   | 0.25                  | FG      | 35                | 34        | 35       | 96                  | 0                 | 29.07                    | 30.06   |              |  |
| 10                              | VV 001    | NC                      |  |                                   | 0.25                  | FG      | 38                | 38        | 38       | 100                 | 3                 | 29.09                    | 30.08   |              |  |
| 13                              | OVC 009   | NC                      |  |                                   | 10.00                 |         | 45                | 40        | 43       | 83                  | 5                 | 28.97                    | 29.96   |              |  |
| 16                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 56                | 43        | 49       | 62                  | 6                 | 28.89                    | 29.87   |              |  |
| 19                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 51                | 44        | 48       | 77                  | 3                 | 28.92                    | 29.91   |              |  |
| 22                              | CLR NC    | NC                      |  |                                   | 9.00                  |         | 45                | 42        | 44       | 89                  | 0                 | 28.93                    | 29.92   |              |  |
| SUNRISE: 0747      SUNSET: 1736 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | CLR NC    | NC                      |  |                                   | 9.00                  |         | 42                | 39        | 41       | 89                  | 0                 | 28.93                    | 29.92   |              |  |
| 04                              | CLR NC    | NC                      |  |                                   | 7.00                  |         | 38                | 36        | 37       | 93                  | 0                 | 28.95                    | 29.93   |              |  |
| 07                              | OVC 023   | NC                      |  |                                   | 6.00                  | BR      | 36                | 34        | 35       | 92                  | 0                 | 28.95                    | 29.94   |              |  |
| 10                              | OVC 027   | NC                      |  |                                   | 8.00                  |         | 42                | 37        | 40       | 83                  | 0                 | 28.97                    | 29.96   |              |  |
| 13                              | OVC 035   | NC                      |  |                                   | 10.00                 |         | 45                | 30        | 39       | 56                  | 0                 | 28.90                    | 29.89   |              |  |
| 16                              | BKN 045   | NC                      |  |                                   | 10.00                 |         | 43                | 30        | 38       | 60                  | 13                | 28.91                    | 29.91   |              |  |
| 19                              | OVC 038   | NC                      |  |                                   | 10.00                 |         | 40                | 30        | 36       | 68                  | 8                 | 28.96                    | 29.96   |              |  |
| 22                              | OVC 044   | NC                      |  |                                   | 10.00                 |         | 37                | 32        | 35       | 82                  | 0                 | 28.98                    | 29.98   |              |  |
| SUNRISE: 0747      SUNSET: 1737 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | OVC 030   | NC                      |  |                                   | 10.00                 |         | 38                | 30        | 35       | 73                  | 6                 | 28.96                    | 29.96   |              |  |
| 04                              | OVC 035   | NC                      |  |                                   | 10.00                 |         | 36                | 32        | 34       | 85                  | 3                 | 28.97                    | 29.97   |              |  |
| 07                              | OVC 040   | NC                      |  |                                   | 10.00                 |         | 37                | 28        | 33       | 70                  | 8                 | 29.00                    | 30.00   |              |  |
| 10                              | OVC 043   | NC                      |  |                                   | 10.00                 |         | 36                | 24        | 32       | 62                  | 6                 | 29.08                    | 30.09   |              |  |
| 13                              | OVC 048   | NC                      |  |                                   | 10.00                 |         | 37                | 24        | 32       | 59                  | 7                 | 29.06                    | 30.06   |              |  |
| 16                              | OVC 047   | NC                      |  |                                   | 10.00                 |         | 36                | 22        | 31       | 57                  | 6                 | 29.07                    | 30.08   |              |  |
| 19                              | OVC 041   | NC                      |  |                                   | 10.00                 |         | 34                | 19        | 29       | 54                  | 7                 | 29.13                    | 30.15   |              |  |
| 22                              | OVC 041   | NC                      |  |                                   | 10.00                 |         | 33                | 17        | 28       | 52                  | 0                 | 29.14                    | 30.16   |              |  |
| JAN 02                          |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| SUNRISE: 0747      SUNSET: 1739 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 34                | 23        | 30       | 64                  | 5                 | 29.07                    | 30.08   |              |  |
| 04                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 31                | 23        | 28       | 72                  | 0                 | 29.10                    | 30.11   |              |  |
| 07                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 30                | 23        | 28       | 75                  | 5                 | 29.08                    | 30.09   |              |  |
| 10                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 42                | 24        | 35       | 49                  | 9                 | 29.10                    | 30.10   |              |  |
| 13                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 51                | 31        | 42       | 46                  | 7                 | 29.02                    | 30.01   |              |  |
| 16                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 59                | 37        | 48       | 44                  | 16                | 20                       | 28.95   | 29.94        |  |
| 19                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 60                | 37        | 49       | 43                  | 12                | 23                       | 28.96   | 29.95        |  |
| 22                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 59                | 42        | 50       | 54                  | 8                 | 24                       | 29.03   | 30.01        |  |
| SUNRISE: 0747      SUNSET: 1740 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | OVC 060   | NC                      |  |                                   | 10.00                 |         | 59                | 44        | 51       | 58                  | 14                | 22                       | 29.07   | 30.03        |  |
| 04                              | BKN 047   | NC                      |  |                                   | 10.00                 |         | 57                | 47        | 52       | 69                  | 3                 | 29.10                    | 30.08   |              |  |
| 07                              | OVC 025   | NC                      |  |                                   | 10.00                 |         | 56                | 48        | 52       | 75                  | 0                 | 29.15                    | 30.12   |              |  |
| 10                              | FEW 018   | NC                      |  |                                   | 10.00                 |         | 58                | 50        | 54       | 75                  | 5                 | 29.24                    | 30.21   |              |  |
| 13                              | BKN 044   | NC                      |  |                                   | 10.00                 |         | 65                | 49        | 56       | 56                  | 5                 | 29.22                    | 30.19   |              |  |
| 16                              | BKN 050   | NC                      |  |                                   | 10.00                 |         | 66                | 49        | 57       | 54                  | 5                 | 29.24                    | 30.20   |              |  |
| 19                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 59                | 51        | 55       | 75                  | 0                 | 29.30                    | 30.27   |              |  |
| 22                              | FEW 080   | NC                      |  |                                   | 9.00                  |         | 52                | 49        | 50       | 90                  | 0                 | 29.32                    | 30.30   |              |  |
| SUNRISE: 0747      SUNSET: 1741 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | OVC 090   | NC                      |  |                                   | 10.00                 |         | 53                | 48        | 50       | 83                  | 0                 | 29.34                    | 30.31   |              |  |
| 04                              | BKN 090   | NC                      |  |                                   | 10.00                 |         | 50                | 45        | 48       | 83                  | 0                 | 29.34                    | 30.32   |              |  |
| 07                              | BKN 060   | NC                      |  |                                   | 10.00                 |         | 49                | 45        | 47       | 86                  | 3                 | 29.35                    | 30.34   |              |  |
| 10                              | OVC 027   | NC                      |  |                                   | 7.00                  |         | 50                | 47        | 48       | 90                  | 3                 | 29.38                    | 30.37   |              |  |
| 13                              | OVC 090   | NC                      |  |                                   | 10.00                 |         | 56                | 50        | 53       | 80                  | 0                 | 29.31                    | 30.29   |              |  |
| 16                              | BKN 085   | NC                      |  |                                   | 10.00                 |         | 60                | 53        | 56       | 78                  | 3                 | 29.23                    | 30.20   |              |  |
| 19                              | FEW 080   | NC                      |  |                                   | 6.00                  | BR      | 54                | 51        | 52       | 90                  | 0                 | 29.20                    | 30.18   |              |  |
| 22                              | CLR NC    | NC                      |  |                                   | 4.00                  | BR      | 49                | 47        | 48       | 93                  | 0                 | 29.18                    | 30.16   |              |  |
| SUNRISE: 0747      SUNSET: 1742 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | OVC 070   | NC                      |  |                                   | 10.00                 |         | 60                | 43        | 51       | 54                  | 6                 | 18                       | 29.13   | 30.10        |  |
| 04                              | OVC 070   | NC                      |  |                                   | 6.00                  | -RA BR  | 49                | 47        | 48       | 93                  | 0                 | 29.15                    | 30.13   |              |  |
| 07                              | OVC 012   | NC                      |  |                                   | 10.00                 |         | 50                | 49        | 49       | 96                  | 3                 | 29.13                    | 30.10   |              |  |
| 10                              | BKN 011   | NC                      |  |                                   | 10.00                 |         | 54                | 50        | 52       | 86                  | 8                 | 23                       | 29.14   | 30.12        |  |
| 13                              | SCT 035   | NC                      |  |                                   | 10.00                 |         | 58                | 42        | 50       | 55                  | 8                 | 23                       | 29.13   | 30.09        |  |
| 16                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 59                | 37        | 48       | 44                  | 8                 | 21                       | 29.12   | 30.09        |  |
| 19                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 51                | 38        | 45       | 61                  | 0                 | 0                        | 29.12   | 30.09        |  |
| 22                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 42                | 37        | 40       | 83                  | 0                 | 0                        | 29.13   | 30.11        |  |
| SUNRISE: 0747      SUNSET: 1743 |           |                         |  |                                   |                       |         |                   |           |          |                     |                   |                          |         |              |  |
| 01                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 38                | 35        | 37       | 89                  | 3                 | 23                       | 29.10   | 30.09        |  |
| 04                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 33                | 30        | 32       | 89                  | 0                 | 0                        | 29.10   | 30.10        |  |
| 07                              | OVC 008   | NC                      |  |                                   | 0.75                  | BR      | 30                | 29        | 30       | 96                  | 0                 | 0                        | 29.13   | 30.12        |  |
| 10                              | OVC 001   | NC                      |  |                                   | 1.00                  | BR      | 34                | 33        | 34       | 96                  | 0                 | 0                        | 29.16   | 30.17        |  |
| 13                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 55                | 40        | 48       | 57                  | 9                 | 25                       | 29.10   | 30.09        |  |
| 16                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 61                | 35        | 49       | 38                  | 8                 | 22                       | 29.05   | 30.03        |  |
| 19                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 50                | 39        | 45       | 66                  | 0                 | 0                        | 29.05   | 30.05        |  |
| 22                              | CLR NC    | NC                      |  |                                   | 10.00                 |         | 44                | 38        | 41       | 80                  | 5                 | 21                       | 29.04   | 30.04        |  |

# OAK RIDGE, TN JANUARY 2006

## OBSERVATIONS AT 3-HOURLY INTERVALS

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) |         | SEA<br>LEVEL |
|---------------|-----------|-------------------------|---------------------------|---------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|-----------|--------------------------|---------|--------------|
|               |           |                         | Observation<br>Time (LST) | Eff Cld Amt<br>Okas |                       |         | DRY BULB          | DEW POINT | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION | Tens of Deg              | STATION |              |
| JAN 13        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| SUNRISE: 0746 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 46                | 38        | 42       | 74                         | 6           | 22        | 29.02                    | 30.00   |              |
| 04            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 44                | 38        | 41       | 80                         | 0           | 00        | 28.99                    | 29.96   |              |
| 07            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 39                | 36        | 38       | 89                         | 0           | 00        | 28.89                    | 29.88   |              |
| 10            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 50                | 40        | 45       | 69                         | 0           | 00        | 28.84                    | 29.83   |              |
| 13            | SCT 100   | NC                      |                           |                     | 10.00                 |         | 56                | 43        | 49       | 62                         | 5           | VR        | 28.71                    | 29.68   |              |
| 16            | OVC 070   | NC                      |                           |                     | 6.00                  | -RA BR  | 50                | 48        | 49       | 93                         | 5           | 08        | 28.60                    | 29.57   |              |
| 19            | OVC 035   | NC                      |                           |                     | 10.00                 |         | 45                | 37        | 41       | 74                         | 9           | 25        | 28.70                    | 29.68   |              |
| 22            | OVC 060   | NC                      |                           |                     | 10.00                 |         | 39                | 30        | 35       | 70                         | 13          | 27        | 28.77                    | 29.75   |              |
| SUNRISE: 0746 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 14        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | OVC 034   | NC                      |                           |                     | 7.00                  | -SN     | 36                | 28        | 33       | 73                         | 8           | 25        | 28.77                    | 29.75   |              |
| 04            | OVC 039   | NC                      |                           |                     | 4.00                  | -SN     | 34                | 29        | 32       | 82                         | 8           | 26        | 28.78                    | 29.78   |              |
| 07            | OVC 042   | NC                      |                           |                     | 2.50                  | -SN BR  | 33                | 30        | 32       | 89                         | 6           | 28        | 28.84                    | 29.83   |              |
| 10            | OVC 027   | NC                      |                           |                     | 10.00                 |         | 34                | 24        | 30       | 67                         | 9           | 31        | 28.97                    | 29.97   |              |
| 13            | OVC 047   | NC                      |                           |                     | 10.00                 |         | 36                | 22        | 31       | 57                         | 7           | 32        | 29.01                    | 30.02   |              |
| 16            | OVC 042   | NC                      |                           |                     | 10.00                 |         | 37                | 21        | 31       | 52                         | 9           | 34        | 29.07                    | 30.08   |              |
| 19            | OVC 044   | NC                      |                           |                     | 10.00                 |         | 36                | 21        | 31       | 55                         | 3           | 26        | 29.13                    | 30.14   |              |
| 22            | OVC 038   | NC                      |                           |                     | 10.00                 |         | 34                | 24        | 30       | 67                         | 0           | 00        | 29.14                    | 30.16   |              |
| SUNRISE: 0746 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 15        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 33                | 24        | 30       | 70                         | 8           | 35        | 29.14                    | 30.15   |              |
| 04            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 28                | 23        | 26       | 82                         | 0           | 00        | 29.16                    | 30.18   |              |
| 07            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 26                | 23        | 25       | 88                         | 0           | 00        | 29.17                    | 30.19   |              |
| 10            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 34                | 26        | 31       | 73                         | 5           | VR        | 29.10                    | 30.19   |              |
| 13            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 43                | 21        | 35       | 42                         | 0           | 00        | 29.10                    | 30.11   |              |
| 16            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 47                | 18        | 36       | 31                         | 3           | 16        | 29.06                    | 30.06   |              |
| 19            | SCT 120   | NC                      |                           |                     | 10.00                 |         | 44                | 24        | 36       | 45                         | 0           | 00        | 29.03                    | 30.03   |              |
| 22            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 38                | 27        | 34       | 65                         | 0           | 00        | 28.99                    | 29.99   |              |
| SUNRISE: 0746 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 16        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 37                | 28        | 33       | 70                         | 0           | 00        | 28.95                    | 29.95   |              |
| 04            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 35                | 28        | 32       | 76                         | 5           | 21        | 28.96                    | 29.96   |              |
| 07            | OVC 120   | NC                      |                           |                     | 10.00                 |         | 37                | 27        | 33       | 67                         | 3           | VR        | 28.93                    | 29.92   |              |
| 10            | OVC 031   | NC                      |                           |                     | 10.00                 |         | 44                | 26        | 37       | 49                         | 3           | VR        | 28.95                    | 29.94   |              |
| 13            | OVC 025   | NC                      |                           |                     | 10.00                 |         | 50                | 31        | 42       | 48                         | 7           | 24        | 28.89                    | 29.88   |              |
| 16            | BKN 045   | NC                      |                           |                     | 10.00                 |         | 54                | 36        | 46       | 51                         | 6           | VR        | 28.86                    | 29.85   |              |
| 19            | OVC 025   | NC                      |                           |                     | 10.00                 |         | 53                | 42        | 48       | 66                         | 3           | VR        | 28.89                    | 29.88   |              |
| 22            | OVC 015   | NC                      |                           |                     | 5.00                  | RA BR   | 49                | 46        | 47       | 89                         | 0           | 00        | 28.90                    | 29.88   |              |
| SUNRISE: 0746 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 17        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | OVC 032   | NC                      |                           |                     | 2.50                  | RA BR   | 48                | 47        | 47       | 96                         | 0           | 00        | 28.83                    | 29.81   |              |
| 04            | OVC 036   | NC                      |                           |                     | 3.00                  | -RA BR  | 50                | 48        | 49       | 93                         | 0           | 00        | 28.79                    | 29.76   |              |
| 07            | OVC 080   | NC                      |                           |                     | 3.00                  | -RA BR  | 50                | 48        | 49       | 93                         | 3           | 08        | 28.76                    | 29.72   |              |
| 10            | OVC 046   | NC                      |                           |                     | 2.00                  | -RA BR  | 51                | 49        | 50       | 93                         | 0           | 00        | 28.71                    | 29.68   |              |
| 13            | OVC 037   | NC                      |                           |                     | 1.75                  | -RA BR  | 52                | 51        | 51       | 96                         | 0           | 00        | 28.56                    | 29.53   |              |
| 16            | OVC 024   | NC                      |                           |                     | 4.00                  | RA BR   | 53                | 52        | 52       | 96                         | 5           | VR        | 28.57                    | 29.53   |              |
| 19            | OVC 055   | NC                      |                           |                     | 5.00                  | RA BR   | 51                | 49        | 50       | 93                         | 3           | 21        | 28.64                    | 29.60   |              |
| 22            | OVC 024   | NC                      |                           |                     | 10.00                 | -RA     | 51                | 47        | 49       | 86                         | 12          | 20        | 28.60                    | 29.56   |              |
| SUNRISE: 0745 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 18        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | OVC 041   | NC                      |                           |                     | 4.00                  | -SN     | 34                | 28        | 32       | 79                         | 12          | 27        | 28.82                    | 29.80   |              |
| 04            | OVC 095   | NC                      |                           |                     | 10.00                 |         | 32                | 21        | 28       | 64                         | 16          | 26        | 28.93                    | 29.92   |              |
| 07            | OVC 065   | NC                      |                           |                     | 10.00                 |         | 30                | 20        | 27       | 66                         | 6           | VR        | 29.05                    | 30.05   |              |
| 10            | FEW 025   | NC                      |                           |                     | 10.00                 |         | 34                | 24        | 30       | 67                         | 12          | 22        | 29.10                    | 30.10   |              |
| 13            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 43                | 19        | 34       | 38                         | 16          | 23        | 29.13                    | 30.14   |              |
| 16            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 45                | 15        | 34       | 30                         | 13          | 25        | 29.21                    | 30.22   |              |
| 19            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 38                | 24        | 33       | 57                         | 0           | 00        | 29.28                    | 30.30   |              |
| 22            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 32                | 26        | 30       | 79                         | 0           | 00        | 29.31                    | 30.34   |              |
| SUNRISE: 0745 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 19        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| SUNRISE: 0745 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 31                | 25        | 29       | 78                         | 0           | 00        | 29.33                    | 30.35   |              |
| 04            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 30                | 25        | 28       | 82                         | 0           | 00        | 29.32                    | 30.34   |              |
| 07            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 32                | 25        | 29       | 75                         | 0           | 00        | 29.37                    | 30.39   |              |
| 10            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 40                | 29        | 36       | 65                         | 0           | 00        | 29.38                    | 30.40   |              |
| 13            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 54                | 31        | 44       | 42                         | 6           | VR        | 29.30                    | 30.30   |              |
| 16            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 60                | 31        | 47       | 34                         | 12          | 20        | 29.21                    | 30.21   |              |
| 19            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 54                | 27        | 42       | 35                         | 3           | 25        | 29.22                    | 30.22   |              |
| 22            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 48                | 31        | 41       | 52                         | 3           | 24        | 29.26                    | 30.26   |              |
| SUNRISE: 0745 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 20        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| SUNRISE: 0744 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 42                | 30        | 37       | 63                         | 3           | 23        | 29.27                    | 30.27   |              |
| 04            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 42                | 30        | 37       | 63                         | 5           | 22        | 29.32                    | 30.31   |              |
| 07            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 38                | 30        | 35       | 73                         | 0           | 00        | 29.36                    | 30.36   |              |
| 10            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 48                | 32        | 41       | 54                         | 0           | 00        | 29.38                    | 30.37   |              |
| 13            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 58                | 33        | 46       | 39                         | 9           | 17        | 29.29                    | 30.28   |              |
| 16            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 61                | 39        | 50       | 44                         | 8           | 18        | 29.22                    | 30.20   |              |
| 19            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 54                | 34        | 45       | 47                         | 5           | VR        | 29.22                    | 30.21   |              |
| 22            | OVC 070   | NC                      |                           |                     | 10.00                 |         | 52                | 41        | 47       | 66                         | 0           | 00        | 29.20                    | 30.18   |              |
| SUNRISE: 0744 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 21        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| SUNRISE: 0744 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | OVC 075   | NC                      |                           |                     | 10.00                 |         | 51                | 46        | 48       | 83                         | 5           | VR        | 29.20                    | 30.17   |              |
| 04            | OVC 013   | NC                      |                           |                     | 6.00                  | -RA BR  | 51                | 49        | 50       | 93                         | 5           | VR        | 29.19                    | 30.16   |              |
| 07            | OVC 011   | NC                      |                           |                     | 3.00                  | -RA BR  | 51                | 50        | 50       | 96                         | 0           | 00        | 29.19                    | 30.17   |              |
| 10            | OVC 006   | NC                      |                           |                     | 5.00                  | BR      | 53                | 51        | 52       | 93                         | 0           | 00        | 29.25                    | 30.23   |              |
| 13            | OVC 030   | NC                      |                           |                     | 4.00                  | -RA BR  | 54                | 52        | 53       | 93                         | 7           | VR        | 29.27                    | 30.25   |              |
| 16            | BKN 048   | NC                      |                           |                     | 10.00                 |         | 52                | 44        | 48       | 74                         | 5           | 02        | 29.31                    | 30.30   |              |
| 19            | BKN 080   | NC                      |                           |                     | 10.00                 |         | 48                | 39        | 44       | 71                         | 5           | 04        | 29.39                    | 30.38   |              |
| 22            | FEW 034   | NC                      |                           |                     | 10.00                 |         | 43                | 38        | 41       | 83                         | 3           | 06        | 29.41                    | 30.40   |              |
| SUNRISE: 0743 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 22        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| SUNRISE: 0743 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 44                | 38        | 41       | 80                         | 6           | 05        | 29.38                    | 30.37   |              |
| 04            | CLR NC    | NC                      |                           |                     | 10.00                 |         | 44                | 37        | 41       | 77                         | 5           | 05        | 29.38                    | 30.37   |              |
| 07            | OVC 060   | NC                      |                           |                     | 10.00                 |         | 44                | 37        | 41       | 77                         | 5           | VR        | 29.39                    | 30.39   |              |
| 10            | OVC 038   | NC                      |                           |                     | 10.00                 |         | 46                | 38        | 42       | 74                         | 6           | 04        | 29.40                    | 30.40   |              |
| 13            | OVC 032   | NC                      |                           |                     | 10.00                 |         | 45                | 43        | 44       | 93                         | 0           | 00        | 29.35                    | 30.35   |              |
| 16            | OVC 022   | NC                      |                           |                     | 5.00                  | BR      | 48                | 46        | 47       | 93                         | 5           | 04        | 29.30                    | 30.29   |              |
| 19            | OVC 075   | NC                      |                           |                     | 7.00                  |         | 48                | 46        | 47       | 93                         | 5           | 05        | 29.23                    | 30.23   |              |
| 22            | OVC 018   | NC                      |                           |                     | 3.00                  | BR      | 47                | 45        | 46       | 93                         | 0           | 00        | 29.17                    | 30.17   |              |
| SUNRISE: 0743 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| JAN 23        |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| SUNRISE: 0743 |           |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |
| 01            | OVC 050   | NC                      |                           |                     | 6.00                  | BR      | 48                | 46        | 47       | 93                         | 3           | 22        | 29.12                    | 30.11   |              |
| 04            | OVC 007   | NC                      |                           |                     | 9.00                  |         | 51                | 48        | 49       | 90                         | 7           | VR        | 29.08                    | 30.06   |              |
| 07            | OVC 008   | NC                      |                           |                     | 3.00                  | RA BR   | 52                | 50        | 51       | 93                         | 6           | 19        | 29.10                    | 30.08   |              |
| 10            | OVC 006   | NC                      |                           |                     | 7.00                  |         | 51                | 49        | 50       | 93                         | 5           | VR        | 29.12                    | 30.10   |              |
| 13            | OVC 021   | NC                      |                           |                     | 10.00                 |         | 53                | 49        | 51       | 86                         | 5           | VR        | 29.10                    | 30.08   |              |
| 16            | OVC 008   |                         |                           |                     |                       |         |                   |           |          |                            |             |           |                          |         |              |

| HOUR (LST)    | SKY COVER | CEILING<br>100's of FT. | SATellite                 |                      | WEATHER | TEMPERATURE<br>OF     |          |          | WIND                       |             | PRESSURE<br>(INCHES, HG) | SEA<br>LEVEL |
|---------------|-----------|-------------------------|---------------------------|----------------------|---------|-----------------------|----------|----------|----------------------------|-------------|--------------------------|--------------|
|               |           |                         | Observation<br>Time (LST) | Eff Clid Amt<br>Okas |         | Visibility<br>(MILES) | DRY BULB | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) |                          |              |
| SUNRISE: 0741 |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| 01            | FEW 085   | 10.00                   |                           |                      |         | 48                    | 20       | 37       | 33                         | 7           | 29.10                    | 30.08        |
| 04            | CLR NC    | 10.00                   |                           |                      |         | 42                    | 15       | 33       | 33                         | 7           | 29.16                    | 30.15        |
| 07            | CLR NC    | 10.00                   |                           |                      |         | 36                    | 15       | 29       | 42                         | 3           | 29.21                    | 30.22        |
| 10            | CLR NC    | 10.00                   |                           |                      |         | 37                    | 18       | 30       | 46                         | 5           | 29.31                    | 30.32        |
| 13            | CLR NC    | 10.00                   |                           |                      |         | 45                    | 17       | 35       | 32                         | 9           | 29.30                    | 30.29        |
| 16            | CLR NC    | 10.00                   |                           |                      |         | 45                    | 16       | 35       | 31                         | 8           | 29.32                    | 30.32        |
| 19            | CLR NC    | 10.00                   |                           |                      |         | 39                    | 18       | 32       | 43                         | 6           | 29.39                    | 30.40        |
| 22            | CLR NC    | 10.00                   |                           |                      |         | 30                    | 21       | 27       | 69                         | 0           | 29.44                    | 30.46        |
| SUNSET: 0741  |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| JAN 25        |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| SUNRISE: 0741 |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| 01            | CLR NC    | 10.00                   |                           |                      |         | 32                    | 21       | 28       | 64                         | 3           | 29.45                    | 30.47        |
| 04            | CLR NC    | 10.00                   |                           |                      |         | 26                    | 21       | 24       | 81                         | 0           | 29.45                    | 30.47        |
| 07            | CLR NC    | 10.00                   |                           |                      |         | 25                    | 20       | 23       | 81                         | 0           | 29.47                    | 30.50        |
| 10            | CLR NC    | 10.00                   |                           |                      |         | 35                    | 23       | 31       | 62                         | 7           | 29.55                    | 30.59        |
| 13            | CLR NC    | 10.00                   |                           |                      |         | 42                    | 22       | 34       | 45                         | 7           | 29.53                    | 30.55        |
| 16            | CLR NC    | 10.00                   |                           |                      |         | 47                    | 18       | 36       | 31                         | 12          | 29.50                    | 30.53        |
| 19            | CLR NC    | 10.00                   |                           |                      |         | 40                    | 20       | 33       | 45                         | 0           | 29.52                    | 30.56        |
| 22            | CLR NC    | 10.00                   |                           |                      |         | 32                    | 23       | 29       | 69                         | 3           | 29.56                    | 30.59        |
| SUNSET: 0740  |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| JAN 26        |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| SUNRISE: 0740 |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| 01            | CLR NC    | 10.00                   |                           |                      |         | 31                    | 23       | 28       | 72                         | 3           | 29.55                    | 30.58        |
| 04            | CLR NC    | 10.00                   |                           |                      |         | 29                    | 24       | 27       | 82                         | 3           | 29.57                    | 30.60        |
| 07            | CLR NC    | 10.00                   |                           |                      |         | 28                    | 24       | 27       | 85                         | 0           | 29.59                    | 30.62        |
| 10            | CLR NC    | 10.00                   |                           |                      |         | 37                    | 25       | 32       | 62                         | 0           | 29.61                    | 30.64        |
| 13            | CLR NC    | 10.00                   |                           |                      |         | 49                    | 22       | 38       | 35                         | 7           | 29.55                    | 30.57        |
| 16            | CLR NC    | 10.00                   |                           |                      |         | 52                    | 23       | 40       | 32                         | 3           | 29.49                    | 30.51        |
| 19            | CLR NC    | 10.00                   |                           |                      |         | 44                    | 28       | 37       | 53                         | 0           | 29.48                    | 30.50        |
| 22            | CLR NC    | 10.00                   |                           |                      |         | 42                    | 29       | 37       | 60                         | 0           | 29.49                    | 30.51        |
| SUNSET: 0740  |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| JAN 27        |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| SUNRISE: 0740 |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| 01            | CLR NC    | 10.00                   |                           |                      |         | 43                    | 26       | 36       | 51                         | 5           | 29.49                    | 30.50        |
| 04            | CLR NC    | 10.00                   |                           |                      |         | 40                    | 25       | 34       | 55                         | 5           | 29.49                    | 30.50        |
| 07            | CLR NC    | 10.00                   |                           |                      |         | 38                    | 25       | 33       | 60                         | 3           | 29.49                    | 30.50        |
| 10            | CLR NC    | 10.00                   |                           |                      |         | 45                    | 23       | 36       | 42                         | 5           | 29.48                    | 30.48        |
| 13            | CLR NC    | 10.00                   |                           |                      |         | 56                    | 26       | 43       | 32                         | 5           | 29.38                    | 30.37        |
| 16            | CLR NC    | 10.00                   |                           |                      |         | 60                    | 29       | 46       | 31                         | 5           | 29.26                    | 30.24        |
| 19            | CLR NC    | 10.00                   |                           |                      |         | 52                    | 32       | 43       | 47                         | 0           | 29.19                    | 30.19        |
| 22            | BKN 100   | 10.00                   |                           |                      |         | 49                    | 36       | 43       | 61                         | 0           | 29.14                    | 30.13        |
| SUNSET: 0740  |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| JAN 28        |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| SUNRISE: 0740 |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| 01            | SCT 110   | 10.00                   |                           |                      |         | 56                    | 39       | 48       | 53                         | 3           | 29.06                    | 30.03        |
| 04            | OVC 080   | 10.00                   |                           |                      | -RA     | 57                    | 44       | 50       | 62                         | 9           | 28.88                    | 29.84        |
| 07            | OVC 014   | 10.00                   |                           |                      | -RA     | 52                    | 49       | 50       | 90                         | 8           | 28.87                    | 29.84        |
| 10            | OVC 042   | 10.00                   |                           |                      |         | 55                    | 50       | 52       | 83                         | 12          | 28.90                    | 29.88        |
| 13            | SCT 049   | 10.00                   |                           |                      |         | 63                    | 47       | 54       | 56                         | 13          | 28.85                    | 29.81        |
| 16            | FEW 060   | 10.00                   |                           |                      |         | 65                    | 40       | 52       | 40                         | 14          | 28.80                    | 29.75        |
| 19            | BKN 070   | 10.00                   |                           |                      |         | 61                    | 37       | 49       | 41                         | 6           | 28.84                    | 29.81        |
| 22            | CLR NC    | 10.00                   |                           |                      |         | 50                    | 37       | 44       | 61                         | 3           | 28.88                    | 29.85        |
| SUNSET: 0739  |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| JAN 29        |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| SUNRISE: 0738 |           |                         |                           |                      |         |                       |          |          |                            |             |                          |              |
| 01            | CLR NC    | 10.00                   |                           |                      |         | 46                    | 37       | 42       | 71                         | 3           | 28.88                    | 29.85        |
| 04            | CLR NC    | 10.00                   |                           |                      |         | 39                    | 35       | 37       | 86                         | 0           | 28.88                    | 29.85        |
| 07            | CLR NC    | 10.00                   |                           |                      |         | 34                    | 32       | 33       | 92                         | 0           | 28.87                    | 29.85        |
| 10            | CLR NC    | 10.00                   |                           |                      |         | 47                    | 39       | 43       | 74                         | 0           | 28.85                    | 29.83        |
| 13            | CLR NC    | 10.00                   |                           |                      |         | 59                    | 35       | 48       | 41                         | 5           | 28.77                    | 29.73        |
| 16            | OVC 060   | 10.00                   |                           |                      | -RA     | 48                    | 43       | 46       | 83                         | 3           | 28.77                    | 29.76        |
| 19            | OVC 110   | 10.00                   |                           |                      |         | 47                    | 42       | 45       | 83                         | 3           | 28.81                    | 29.80        |
| 22            | CLR NC    | 10.00                   |                           |                      |         | 45                    | 30       | 39       | 56                         | 7           | 28.89                    | 29.87        |

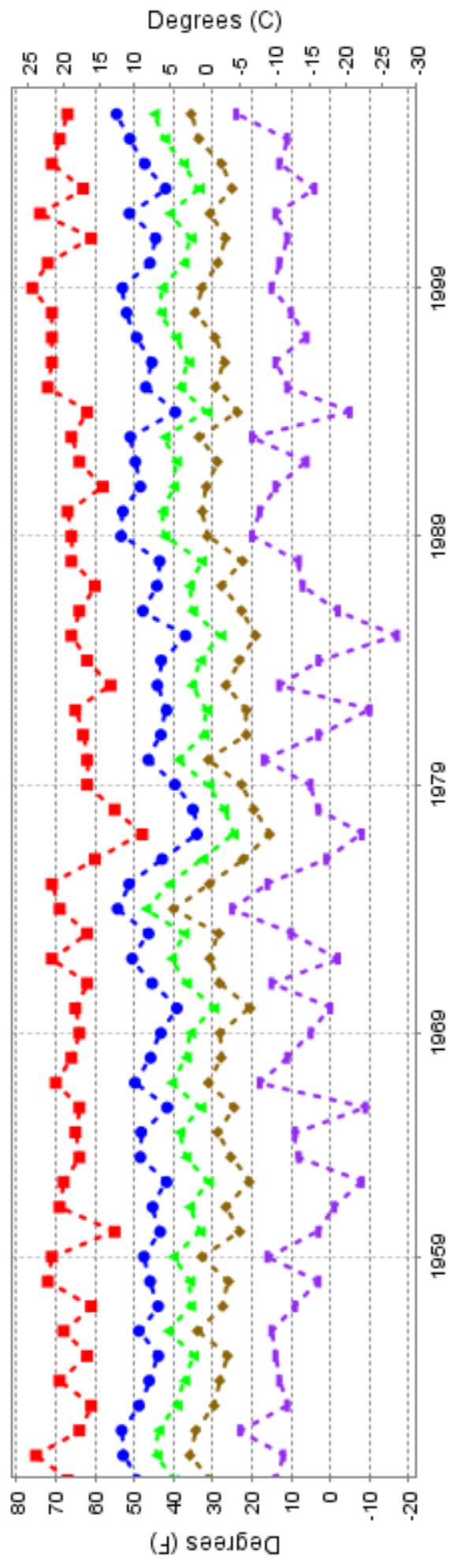
3-HOURLY OBSERVATION NOTES

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, W = Vertical Visibility = 8/8  
 Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.  
 NC = No Ceiling detected.  
 & = Original observation contained additional weather elements.  
 See page 3 for additional notes.

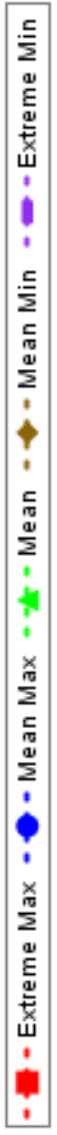
SUMMARY BY HOUR

| HOUR (LST) | AVERAGES   |             |          |          |                   |                               |           |                    |                  |           | RESULTANT WIND (MPH) |           |
|------------|------------|-------------|----------|----------|-------------------|-------------------------------|-----------|--------------------|------------------|-----------|----------------------|-----------|
|            | CEILOMETER | EFF CLD AMT | DRY BULB | WET BULB | RELATIVE HUMIDITY | STATION PRESSURE (Inches, HG) | SEA LEVEL | VISIBILITY (Miles) | WIND SPEED (MPH) | DIRECTION | SPEED                | DIRECTION |
|            |            |             |          |          |                   |                               |           |                    |                  |           |                      |           |
| 01         |            |             | 43       | 34       | 39                | 29.10                         | 30.09     | 9.18               | 4                | 3         | 26                   | 26        |
| 02         |            |             | 42       | 34       | 39                | 29.10                         | 30.09     | 8.96               | 4                | 4         | 26                   | 26        |
| 03         |            |             | 41       | 34       | 38                | 29.10                         | 30.09     | 8.85               | 3                | 2         | 26                   | 26        |
| 04         |            |             | 40       | 33       | 37                | 29.10                         | 30.09     | 8.75               | 3                | 3         | 26                   | 26        |
| 05         |            |             | 40       | 33       | 37                | 29.10                         | 30.09     | 8.75               | 3                | 3         | 26                   | 26        |
| 06         |            |             | 39       | 33       | 37                | 29.11                         | 30.10     | 8.15               | 2                | 3         | 26                   | 26        |
| 07         |            |             | 39       | 33       | 36                | 29.11                         | 30.11     | 8.24               | 3                | 2         | 25                   | 25        |
| 08         |            |             | 39       | 33       | 36                | 29.13                         | 30.12     | 8.40               | 2                | 1         | 24                   | 24        |
| 09         |            |             | 40       | 34       | 38                | 29.13                         | 30.13     | 8.18               | 3                | 1         | 25                   | 25        |
| 10         |            |             | 43       | 35       | 40                | 29.14                         | 30.14     | 8.52               | 4                | 3         | 26                   | 26        |
| 11         |            |             | 46       | 35       | 41                | 29.15                         | 30.14     | 8.85               | 5                | 4         | 26                   | 26        |
| 12         |            |             | 47       | 35       | 42                | 29.13                         | 30.13     | 9.05               | 5                | 4         | 27                   | 27        |
| 13         |            |             | 50       | 35       | 43                | 29.10                         | 30.08     | 9.35               | 6                | 5         | 27                   | 27        |
| 14         |            |             | 52       | 35       | 44                | 29.08                         | 30.06     | 9.27               | 6                | 4         | 27                   | 27        |
| 15         |            |             | 53       | 35       | 45                | 29.06                         | 30.05     | 9.23               | 6                | 4         | 27                   | 27        |
| 16         |            |             | 53       | 35       | 45                | 29.06                         | 30.05     | 9.52               | 7                | 2         | 26                   | 26        |
| 17         |            |             | 52       | 35       | 45                | 29.07                         | 30.06     | 9.66               | 5                | 2         | 26                   | 26        |
| 18         |            |             | 50       | 35       | 43                | 29.08                         | 30.07     | 9.47               | 4                | 3         | 27                   | 27        |
| 19         |            |             | 48       | 35       | 43                | 29.08                         | 30.08     | 9.61               | 3                | 2         | 26                   | 26        |
| 20         |            |             | 46       | 35       | 42                | 29.09                         | 30.09     | 9.48               | 2                | 2         | 26                   | 26        |
| 21         |            |             | 45       | 35       | 41                | 29.10                         | 30.09     | 9.35               | 3                | 3         | 26                   | 26        |
| 22         |            |             | 44       | 35       | 40                | 29.10                         | 30.10     | 9.35               | 2                | 3         | 26                   | 26        |
| 23         |            |             | 43       | 34       | 39                | 29.10                         | 30.09     | 9.35               | 3                | 3         | 26                   | 26        |
| 24         |            |             | 43       | 34       | 39                | 29.10                         | 30.10     | 9.48               | 3                | 4         | 26                   | 26        |

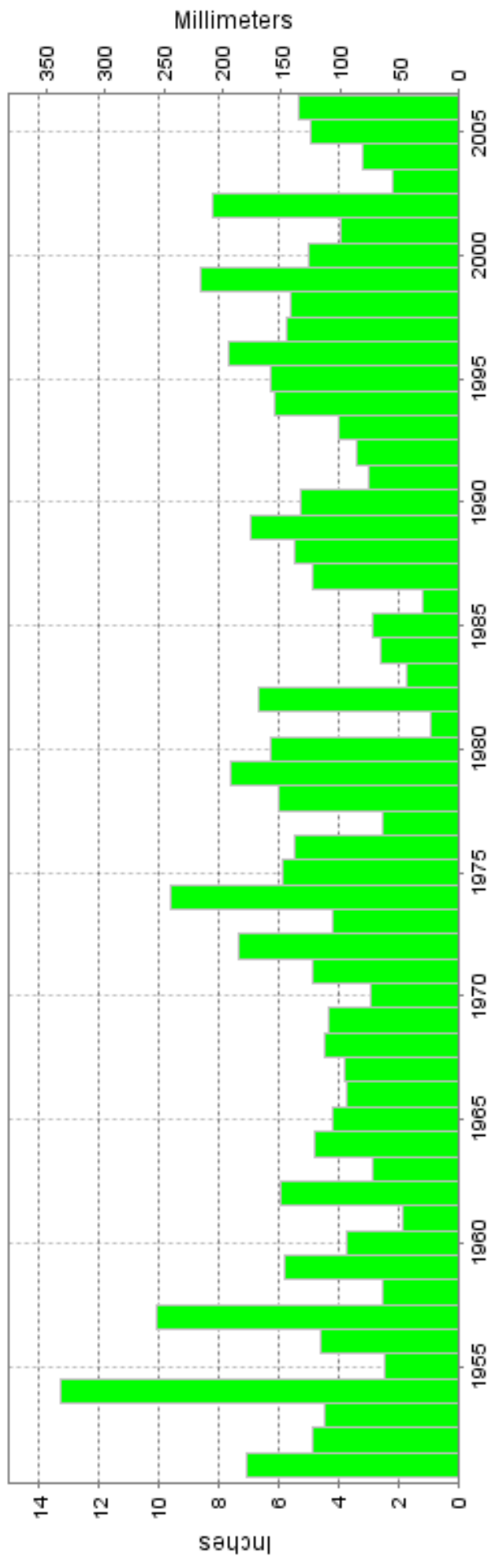
# OAK RIDGE, TN JANUARY TEMPERATURES



Long-Term (1951-2006) Mean: 37.1  
 1971-2000 Normal: 36.6



# OAK RIDGE, TN JANUARY PRECIPITATION



Long-Term (1951-2006) Mean Monthly Total: 4.98  
 1971-2000 Normal: 5.13



**JANUARY 2006  
OAK RIDGE, TN**

# **LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center**

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