



AUGUST 2013 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN
OAK RIDGE (KOQT)
Lat:36° 1'N Long: 84° 14'W Elev (Ground) 910 Feet
Time Zone : EASTERN WBAN: 53868 ISSN#: 0198-487X



| Date 1 | Temperature °F | | | | | | Deg Days BASE 65° | | WEATHER 10 | SNOW/ICE ON GND(IN) | | PRECIPITATION ON GND(IN) | | PRESSURE (INCHES OF HG) | | WIND SPEED = MPH DIR = TENS OF DEGREES | | | | | | | | Date 24 |
|--------------------|----------------|--------------|--------------|-------------------------|-----------------------------------|--------------------------|----------------------|--|-------------------------------|--|-----------|-----------------------------|-----------|---------------------------------|----------------------------|---|---------------|------------------------|--------------------|-----|-------|----|--|------------|
| | MAXIMUM 2 | MINIMUM 3 | AVERAGE 4 | DEP FROM NORMAL 5 | AVERAGE DEW PT 6 | AVERAGE WET BULB 7 | HEATING 8 | COOLING 9 | | LST 11 | LST 12 | LST 13 | LST 14 | AVERAGE STATION 15 | AVERAGE SEA LEVEL 16 | RESULTANT SPEED 17 | RES DIR 18 | AVERAGE SPEED 19 | MAXIMUM | | | | | |
| | | | | | | | | | | | | | | | | | | | 3-SEC | | 2-MIN | | | |
| 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | | | | | |
| 01 | 87 | 68 | 78 | 0 | 67 | 70 | 0 | 13 | RA BR | | | T | 29.03 | 29.95 | 0.6 | 35 | 2.3 | 24 | 32 | 12 | 31 | 01 | | |
| 02 | 87 | 64 | 76 | -2 | 64 | 68 | 0 | 11 | BR | | | 0.00 | 29.08 | 30.01 | 0.6 | 36 | 1.3 | 12 | 01 | 7 | 31 | 02 | | |
| 03 | 87 | 68 | 78 | 1 | 68 | 71 | 0 | 13 | | | | 0.00 | 29.08 | 30.00 | 0.9 | 24 | 1.9 | 13 | 22 | 8 | 23 | 03 | | |
| 04 | 87 | 67 | 77 | 0 | 64 | 69 | 0 | 12 | RA | | | T | 29.10 | 30.03 | 0.6 | 36 | 2.2 | 13 | 35 | 9 | 09 | 04 | | |
| 05 | 87 | 62 | 75 | -2 | 60 | 66 | 0 | 10 | RA | | | T | 29.10 | 30.02 | 0.0 | 08 | 1.5 | 13 | 26 | 9 | 27 | 05 | | |
| 06 | 86 | 69 | 78 | 1 | 69 | 72 | 0 | 13 | RA | | | 0.01 | 29.03 | 29.96 | 0.5 | 24 | 1.1 | 12 | 21 | 8 | 26 | 06 | | |
| 07 | 84 | 73 | 79 | 2 | 72 | 73 | 0 | 14 | RA FG+ FG BR | | | 0.34 | 29.04 | 29.97 | 1.7 | 21 | 2.6 | 15 | 24 | 9 | 17 | 07 | | |
| 08 | 81 | 71 | 76 | -1 | 72 | 73 | 0 | 11 | RA BR | | | 0.24 | 29.06 | 30.00 | 1.2 | 23 | 1.8 | 12 | 20 | 7 | 20 | 08 | | |
| 09 | 88 | 71 | 80 | 3 | 72 | 73 | 0 | 15 | RA BR | | | 0.20 | 29.08 | 30.02 | 0.8 | 25 | 2.4 | 15 | 19 | 9 | 17 | 09 | | |
| 10 | 89 | 71 | 80 | 3 | 72 | 73 | 0 | 15 | RA FG BR | | | 0.22 | 29.15 | 30.08 | 0.6 | 22 | 1.6 | 17 | 32 | 12 | 31 | 10 | | |
| 11 | 89 | 71 | 80 | 3 | 72 | 74 | 0 | 15 | RA FG+ BR | | | 1.03 | 29.17 | 30.10 | 0.8 | 20 | 1.7 | 18 | 28 | 13 | 29 | 11 | | |
| 12 | 83 | 71 | 77 | 0 | 72 | 73 | 0 | 12 | RA FG BR | | | 0.01 | 29.11 | 30.04 | 0.7 | 23 | 1.6 | 16 | 21 | 9 | 20 | 12 | | |
| 13 | 85 | 71 | 78 | 1 | 69 | 72 | 0 | 13 | RA BR | | | 0.02 | 28.98 | 29.91 | 1.2 | 23 | 3.0 | 20 | 25 | 12 | 27 | 13 | | |
| 14 | 80 | 64 | 72 | -5 | 59 | 64 | 0 | 7 | | | | 0.00 | 29.06 | 30.01 | 2.1 | 06 | 3.5 | 16 | 07 | 12 | 07 | 14 | | |
| 15 | 83 | 62 | 73 | -4 | 59 | 64 | 0 | 8 | | | | 0.00 | 29.10 | 30.05 | 1.1 | 06 | 1.9 | 13 | 22 | 9 | 21 | 15 | | |
| 16 | 81 | 68 | 75 | -1 | 64 | 67 | 0 | 10 | RA | | | T | 29.12 | 30.06 | 0.3 | 07 | 2.1 | 13 | 06 | 9 | 06 | 16 | | |
| 17 | 76 | 66 | 71* | -5 | 63 | 66 | 0 | 6 | RA BR | | | 0.85 | 29.15 | 30.11 | 1.1 | 07 | 2.2 | 12 | 08 | 8 | 08 | 17 | | |
| 18 | 79 | 66 | 73 | -3 | 66 | 68 | 0 | 8 | RA FG+ BR | | | 0.52 | 29.19 | 30.14 | 0.1 | 21 | 1.3 | 15 | 21 | 9 | 20 | 18 | | |
| 19 | 79 | 69 | 74 | -2 | 68 | 70 | 0 | 9 | RA BR | | | 0.01 | 29.17 | 30.11 | 0.4 | 29 | 0.4 | 10 | 29 | 7 | 27 | 19 | | |
| 20 | 86 | 67 | 77 | 1 | 68 | 70 | 0 | 12 | FG+ BR | | | 0.00 | 29.18 | 30.12 | 0.7 | 14 | 1.0 | 14 | 14 | 8 | 12 | 20 | | |
| 21 | 82 | 67 | 75 | -1 | 69 | 71 | 0 | 10 | RA FG+ FG BR | | | 0.87 | 29.22 | 30.16 | 0.8 | 23 | 1.2 | 22 | 28 | 15* | 28 | 21 | | |
| 22 | 88 | 68 | 78 | 2 | 70 | 72 | 0 | 13 | FG+ FG BR | | | 0.00 | 29.18 | 30.11 | 0.2 | 20 | 1.0 | 12 | 19 | 8 | 28 | 22 | | |
| 23 | 88 | 68 | 78 | 3 | 70 | 71 | 0 | 13 | RA FG+ FG BR | | | 0.28 | 29.11 | 30.05 | 0.2 | 15 | 0.3 | 24* | 36 | 12 | 01 | 23 | | |
| 24 | 88 | 68 | 78 | 3 | 66 | 69 | 0 | 13 | FG+ FG BR | | | 0.00 | 29.21 | 30.17 | 0.9 | 08 | 2.0 | 14 | 09 | 8 | 09 | 24 | | |
| 25 | 85 | 63 | 74 | -1 | 63 | 67 | 0 | 9 | | | | 0.00 | 29.34 | 30.29 | 0.3 | 09 | 0.7 | 10 | 09 | 7 | 06 | 25 | | |
| 26 | 86 | 61* | 74 | -1 | 63 | 67 | 0 | 9 | BR | | | 0.00 | 29.29 | 30.23 | | | 0.5 | 10 | 15 | 7 | 15 | 26 | | |
| 27 | 86 | 65 | 76 | 1 | 67 | 70 | 0 | 11 | BR | | | 0.00 | 29.16 | 30.09 | 0.3 | 16 | 0.5 | 9 | 10 | 6 | 14 | 27 | | |
| 28 | 90 | 68 | 79 | 4 | 69 | 72 | 0 | 14 | FG BR | | | 0.00 | 29.10 | 30.01 | 0.7 | 27 | 1.2 | 13 | 29 | 8 | 28 | 28 | | |
| 29 | 93* | 73 | 83* | 8 | 71 | 74 | 0 | 18 | BR | | | 0.00 | 29.04 | 29.96 | 0.1 | 21 | 0.4 | 12 | 27 | 7 | 33 | 29 | | |
| 30 | 90 | 70 | 80 | 6 | 71 | 74 | 0 | 15 | FG+ FG BR | | | 0.00 | 29.03 | 29.94 | 0.4 | 19 | 1.8 | 13 | 19 | 8 | 21 | 30 | | |
| 31 | 91 | 70 | 81 | 7 | 71 | 74 | 0 | 16 | RA BR HZ | | | 0.01 | 28.98 | 29.90 | 1.4 | 23 | 3.3 | 20 | 31 | 14 | 32 | 31 | | |
| 85.5 | | 67.7 | 76.6 | ☼ | 67.4 | 70.2 | 0.0 | 11.9 | < MONTHLY AVERAGES TOTALS > | | | | 4.61 | 29.12 | 30.05 | 0.2 | 21 | 1.6 | < MONTHLY AVERAGES | | | | | |
| -2.5 | | 0.5 | -1.0 | | ----- DEPARTURE FROM NORMAL ----- | | | | 1.85 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 | | | | | | | | | | | | | | |
| DEGREE DAYS | | | | | | | | GREATEST 24-HR PRECIPITATION : 1.37 DATE : 17-18 | | | | SEA LEVEL PRESSURE | | | | DATE TIME | | | | | | | | |
| MONTHLY | | | | SEASON TO DATE | | | | GREATEST 24-HR SNOWFALL : | | | | MAXIMUM : | | | | 30.36 25 0953 | | | | | | | | |
| TOTAL DEPARTURE | | | | TOTAL DEPARTURE | | | | GREATEST SNOW DEPTH : | | | | MINIMUM : | | | | 29.83 31 1753 | | | | | | | | |
| HEATING : | | 0 0 | | 0 0 | | 0 0 | | NUMBER OF -> | | MAXIMUM TEMP >= 90 : 4 | | MINIMUM TEMP <= 32 : 0 | | PRECIPITATION >= 0.01 INCH : 14 | | | | | | | | | | |
| COOLING : | | 368 | | -23 | | 1204 -54 | | DAYS WITH | | MAXIMUM TEMP <= 32 : 0 | | MINIMUM TEMP <= 0 : 0 | | PRECIPITATION >= 0.10 INCH : 9 | | | | | | | | | | |
| | | | | | | | | | | THUNDERSTORMS : 0 | | HEAVY FOG : 9 | | SNOWFALL >= 1.0 INCH : | | | | | | | | | | |

AUGUST 2013
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
AUGUST 2013

WBAN # 53868

| Date | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | Date | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | Date | 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 | | | | | | | | | | 01 | | | | | | | | | | | | 01 | T | T | |
| 02 | | | | | | | | | | | | | 02 | | | | | | | | | | | | 02 | 0.00 | 0.00 | |
| 03 | | | | | | | | | | | | | 03 | | | | | | | | | | | | 03 | 0.00 | 0.00 | |
| 04 | | | | | T | T | | | | | | | 04 | | | | | | | | | | | | 04 | T | T | |
| 05 | | | | | | | | | | | | | 05 | | | | | | | | | | T | | 05 | T | T | |
| 06 | | | | | 0.01 | | | | | | | | 06 | | | | | T | | | | | | | 06 | 0.01 | 0.01 | |
| 07 | T | | | | | | | 0.34 | T | | | | 07 | | | T | | | | | | | | | 07 | 0.34 | 0.34 | |
| 08 | | | | | | | | | | 0.01 | 0.03 | 0.16 | 0.01 | 08 | | | | 0.01 | 0.02 | T | T | | | | 08 | 0.24 | 0.24 | |
| 09 | | | | | | | | | | | | | 09 | | | T | | | | | | | 0.20 | T | 09 | 0.20 | 0.20 | |
| 10 | | | | | | | | | | | | | 10 | | T | T | 0.22 | | | | | | | | 10 | 0.22 | 0.22 | |
| 11 | | | | | | | | | | | | | 11 | | | | 0.70 | 0.08 | 0.05 | 0.02 | | 0.18 | | | 11 | 1.03 | 1.03 | |
| 12 | | | | | | | | | | | | | 12 | | | 0.01 | | | | T | | | | | 12 | 0.01 | 0.01 | |
| 13 | | | | | | | | | | | T | 0.02 | T | 13 | T | T | T | | | | | | | | 13 | 0.02 | 0.02 | |
| 14 | | | | | | | | | | | | | 14 | | | | | | | | | | | | 14 | 0.00 | 0.00 | |
| 15 | | | | | | | | | | | | | 15 | | | | | | | | | | | | 15 | 0.00 | 0.00 | |
| 16 | | | T | T | | | | | | | | | 16 | | | | | | | | | | | | 16 | T | T | |
| 17 | | T | | | | | | | | | | | 17 | | | | | | | 0.10 | 0.23 | 0.31 | 0.04 | 0.08 | 0.09 | 17 | 0.85 | 0.85 |
| 18 | T | T | 0.01 | | | | | | | | 0.20 | 0.31 | 18 | | | T | T | | | | | | | | 18 | 0.52 | 0.52 | |
| 19 | | | | T | T | T | | | | | | | 19 | 0.01 | T | T | | | | | | | | | 19 | 0.01 | 0.01 | |
| 20 | | | | | | | | | | | | | 20 | | | | | | | | | | | | 20 | 0.00 | 0.00 | |
| 21 | | 0.01 | | | | | | | | | | | 21 | 0.31 | 0.55 | | | | | | | | | | 21 | 0.87 | 0.87 | |
| 22 | | | | | | | | | | | | | 22 | | | | | | | | | | | | 22 | 0.00 | 0.00 | |
| 23 | | | | | | | | | | | | | 23 | T | | 0.16 | 0.12 | | | | | | | | 23 | 0.28 | 0.28 | |
| 24 | | | | | | | | | | | | | 24 | | | | | | | | | | | | 24 | 0.00 | 0.00 | |
| 25 | | | | | | | | | | | | | 25 | | | | | | | | | | | | 25 | 0.00 | 0.00 | |
| 26 | | | | | | | | | | | | | 26 | | | | | | | | | | | | 26 | 0.00 | 0.00 | |
| 27 | | | | | | | | | | | | | 27 | | | | | | | | | | | | 27 | 0.00 | 0.00 | |
| 28 | | | | | | | | | | | | | 28 | | | | | | | | | | | | 28 | 0.00 | 0.00 | |
| 29 | | | | | | | | | | | | | 29 | | | | | | | | | | | | 29 | 0.00 | 0.00 | |
| 30 | | | | | | | | | | | | | 30 | | | | | | | | | | | | 30 | 0.00 | 0.00 | |
| 31 | | | | | | | | | | | | | 31 | | | | | | | 0.01 | T | T | | | 31 | 0.01 | 0.01 | |

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes) | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | 0.32 | 0.57 | 0.70 | 0.70 | 0.70 | 0.70 | 0.77 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Ending Date | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 21 | 21 | 21 | 21 | 21 |
| Ending Time (Hr/Min) | 1451 | 1452 | 1453 | 1453 | 1453 | 1453 | 1532 | 1321 | 1321 | 1321 | 1321 | 1321 |

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.

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

WEATHER NOTATIONS

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

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

OAK RIDGE, TN AUGUST 2013

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

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.

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

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Station Augmentation-OAK RIDGE ATDD COOP
Lat/Lon:36.00278/-84.24861 Elevation:905FT
Distance:1.5 MI Dir:SW
Augmented Elements:Temp,Precip,Snow
Equipment:Pcpn-Model TRP525M, Temp Vaisala HMP35C,
Snow Board, Snow Stick

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

| Date | VISIBILITY (MILES) | |
|-----------------------------------|--------------------|---------|
| | MINIMUM | MAXIMUM |
| 01 | 6.00 | 10.00 |
| 02 | 5.00 | 10.00 |
| 03 | 10.00 | 10.00 |
| 04 | 7.00 | 10.00 |
| 05 | 10.00 | 10.00 |
| 06 | 10.00 | 10.00 |
| 07 | 0.50 | 10.00 |
| 08 | 1.75 | 10.00 |
| 09 | 5.00 | 10.00 |
| 10 | 1.00 | 10.00 |
| 11 | 0.25 | 10.00 |
| 12 | 0.50 | 10.00 |
| 13 | 10.00 | 10.00 |
| 14 | 10.00 | 10.00 |
| 15 | 10.00 | 10.00 |
| 16 | 10.00 | 10.00 |
| 17 | 1.00 | 10.00 |
| 18 | 1.00 | 10.00 |
| 19 | 5.00 | 10.00 |
| 20 | 0.25 | 10.00 |
| 21 | 0.25 | 10.00 |
| 22 | 0.50 | 10.00 |
| 23 | 0.25 | 10.00 |
| 24 | 0.25 | 10.00 |
| 25 | 8.00 | 10.00 |
| 26 | 0.75 | 10.00 |
| 27 | 5.00 | 10.00 |
| 28 | 0.50 | 10.00 |
| 29 | 5.00 | 10.00 |
| 30 | 0.25 | 10.00 |
| 31 | 5.00 | 10.00 |
| AVGS | 4.19 | 10.00 |
| MINIMUM VISIBILITY (MILES) | | |
| <= .25 | <= 3.0 | >= 7.0 |
| 6 | 15 | 9 |

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2013

KOQT

WBAN # 53868

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | RELATIVE HUMIDITY (PCT) | WIND | | PRESSURE (INCHES, HG) | | HOUR (LST) | SKY COVER | CEILING 100's of FT. | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | RELATIVE HUMIDITY (PCT) | WIND | | PRESSURE (INCHES, HG) | | | | | |
|----------------------|-----------|-------------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|--------------------------|--------------------------|--------------|------------|-----------|-------------------------|-----------------------|---------|-------------------|-----------|---------------|----------------------------|-------------|--------------------------|--------------------------|---------------------|--|--|--|--|
| | | | | | DRY BULB | DEW POINT | WET BULB | | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL | | | | | | DRY BULB | DEW POINT | WET BULB | | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL | | | | |
| SUNRISE: 0544 | | | | | AUG 01 | | | | | SUNSET: 1943 | | | | | SUNRISE: 0549 | | | | | AUG 07 | | | | | SUNSET: 1937 | | | | |
| 01 | OVC | 013 | 10.00 | | 72 | 69 | 70 | 91 | 0 | 00 | 29.03 | 29.96 | 01 | CLR | NC | 10.00 | -RA | 75 | 72 | 73 | 90 | 3 | 25 | 29.05 | 29.96 | | | | |
| 04 | OVC | 011 | 8.00 | | 71 | 70 | 70 | 96 | 0 | 00 | 29.01 | 29.94 | 04 | BKN | 070 | 10.00 | | 75 | 71 | 72 | 88 | 0 | 00 | 29.04 | 29.96 | | | | |
| 07 | OVC | 045 | 9.00 | | 73 | 70 | 71 | 90 | 0 | 00 | 29.03 | 29.96 | 07 | OVC | 041 | 0.50 | RA FG | 73 | 72 | 72 | 96 | 3 | 21 | 29.08 | 30.00 | | | | |
| 10 | BKN | 040 | 10.00 | | 81 | 67 | 72 | 62 | 5 | VR | 29.04 | 29.96 | 10 | OVC | 075 | 10.00 | | 75 | 71 | 72 | 88 | 0 | 00 | 29.10 | 30.02 | | | | |
| 13 | FEW | 045 | 10.00 | | 84 | 63 | 70 | 49 | 5 | VR | 29.04 | 29.96 | 13 | BKN | 034 | 10.00 | | 81 | 72 | 75 | 74 | 3 | 21 | 29.07 | 29.99 | | | | |
| 16 | FEW | 045 | 10.00 | | 87 | 63 | 71 | 45 | 5 | VR | 29.01 | 29.92 | 16 | FEW | 024 | 10.00 | | 83 | 73 | 76 | 72 | 6 | 21 | 29.02 | 29.94 | | | | |
| 19 | CLR | NC | 10.00 | | 82 | 66 | 71 | 58 | 3 | VR | 29.02 | 29.94 | 19 | FEW | 110 | 10.00 | | 79 | 72 | 74 | 79 | 0 | 00 | 29.01 | 29.93 | | | | |
| 22 | CLR | NC | 10.00 | | 74 | 67 | 69 | 79 | 0 | 00 | 29.05 | 29.97 | 22 | BKN | 100 | 10.00 | | 77 | 72 | 74 | 85 | 7 | 24 | 29.06 | 29.98 | | | | |
| SUNRISE: 0545 | | | | | AUG 02 | | | | | SUNSET: 1942 | | | | | SUNRISE: 0549 | | | | | AUG 08 | | | | | SUNSET: 1936 | | | | |
| 01 | CLR | NC | 9.00 | | 67 | 65 | 66 | 93 | 0 | 00 | 29.06 | 29.98 | 01 | FEW | 034 | 10.00 | | 73 | 69 | 70 | 87 | 0 | 00 | 29.07 | 29.98 | | | | |
| 04 | FEW | 002 | 7.00 | | 65 | 63 | 64 | 93 | 0 | 00 | 29.05 | 29.98 | 04 | OVC | 027 | 10.00 | | 74 | 71 | 72 | 91 | 0 | 00 | 29.05 | 29.97 | | | | |
| 07 | CLR | NC | 7.00 | | 65 | 63 | 64 | 93 | 0 | 00 | 29.08 | 30.01 | 07 | OVC | 005 | 7.00 | | 73 | 71 | 72 | 94 | 3 | 21 | 29.07 | 29.99 | | | | |
| 10 | CLR | NC | 10.00 | | 78 | 64 | 69 | 62 | 0 | 00 | 29.10 | 30.03 | 10 | OVC | 035 | 4.00 | -RA BR | 74 | 72 | 73 | 94 | 0 | 00 | 29.10 | 30.03 | | | | |
| 13 | CLR | NC | 10.00 | | 83 | 61 | 69 | 48 | 3 | VR | 29.10 | 30.04 | 13 | OVC | 040 | 8.00 | | 77 | 73 | 74 | 88 | 3 | 29 | 29.10 | 30.03 | | | | |
| 16 | CLR | NC | 10.00 | | 86 | 60 | 69 | 42 | 3 | 36 | 29.08 | 30.00 | 16 | OVC | 031 | 10.00 | | 81 | 74 | 76 | 79 | 0 | 00 | 29.06 | 29.98 | | | | |
| 19 | CLR | NC | 10.00 | | 82 | 65 | 71 | 56 | 3 | VR | 29.07 | 30.00 | 19 | FEW | 060 | 10.00 | -RA | 73 | 70 | 71 | 90 | 0 | 00 | 29.05 | 29.98 | | | | |
| 22 | CLR | NC | 10.00 | | 71 | 68 | 69 | 90 | 0 | 00 | 29.10 | 30.03 | 22 | FEW | 009 | 10.00 | | 72 | 70 | 71 | 94 | 3 | 23 | 29.08 | 30.01 | | | | |
| SUNRISE: 0546 | | | | | AUG 03 | | | | | SUNSET: 1941 | | | | | SUNRISE: 0550 | | | | | AUG 09 | | | | | SUNSET: 1935 | | | | |
| 01 | CLR | NC | 10.00 | | 69 | 66 | 67 | 90 | 0 | 00 | 29.09 | 30.01 | 01 | FEW | 011 | 10.00 | | 71 | 70 | 70 | 96 | 0 | 00 | 29.08 | 30.01 | | | | |
| 04 | FEW | 100 | 10.00 | | 68 | 66 | 67 | 93 | 0 | 00 | 29.08 | 30.00 | 04 | FEW | 014 | 10.00 | | 71 | 70 | 70 | 96 | 0 | 00 | 29.08 | 30.01 | | | | |
| 07 | CLR | NC | 10.00 | | 69 | 66 | 67 | 90 | 0 | 00 | 29.10 | 30.02 | 07 | OVC | 060 | 10.00 | | 73 | 71 | 72 | 94 | 0 | 00 | 29.12 | 30.05 | | | | |
| 10 | CLR | NC | 10.00 | | 79 | 67 | 71 | 67 | 0 | 00 | 29.09 | 30.02 | 10 | OVC | 018 | 10.00 | | 79 | 73 | 75 | 82 | 5 | VR | 29.13 | 30.06 | | | | |
| 13 | SCT | 070 | 10.00 | | 87 | 69 | 75 | 55 | 7 | 26 | 29.10 | 30.02 | 13 | SCT | 120 | 10.00 | | 86 | 74 | 77 | 67 | 7 | 27 | 29.10 | 30.02 | | | | |
| 16 | OVC | 070 | 10.00 | | 83 | 69 | 73 | 63 | 0 | 00 | 29.07 | 29.99 | 16 | SCT | 110 | 10.00 | | 83 | 74 | 77 | 74 | 6 | 27 | 29.07 | 29.99 | | | | |
| 19 | BKN | 049 | 10.00 | | 82 | 70 | 74 | 67 | 6 | 22 | 29.05 | 29.98 | 19 | CLR | NC | 10.00 | | 78 | 71 | 73 | 79 | 3 | 24 | 29.07 | 30.00 | | | | |
| 22 | CLR | NC | 10.00 | | 77 | 72 | 74 | 85 | 3 | 21 | 29.08 | 30.00 | 22 | SCT | 075 | 10.00 | | 75 | 71 | 72 | 88 | 0 | 00 | 29.13 | 30.05 | | | | |
| SUNRISE: 0546 | | | | | AUG 04 | | | | | SUNSET: 1940 | | | | | SUNRISE: 0551 | | | | | AUG 10 | | | | | SUNSET: 1934 | | | | |
| 01 | BKN | 065 | 10.00 | | 75 | 70 | 72 | 84 | 3 | VR | 29.08 | 30.00 | 01 | FEW | 037 | 9.00 | | 73 | 72 | 72 | 96 | 0 | 00 | 29.13 | 30.04 | | | | |
| 04 | BKN | 095 | 10.00 | | 74 | 70 | 71 | 88 | 3 | 25 | 29.08 | 30.00 | 04 | BKN | 049 | 7.00 | | 73 | 71 | 72 | 94 | 0 | 00 | 29.13 | 30.05 | | | | |
| 07 | OVC | 070 | 9.00 | | 74 | 71 | 72 | 91 | 0 | 00 | 29.12 | 30.04 | 07 | OVC | 008 | 10.00 | | 73 | 72 | 72 | 96 | 0 | 00 | 29.15 | 30.09 | | | | |
| 10 | FEW | 043 | 10.00 | | 81 | 66 | 71 | 61 | 0 | 00 | 29.13 | 30.05 | 10 | BKN | 034 | 10.00 | | 79 | 74 | 76 | 85 | 5 | VR | 29.17 | 30.10 | | | | |
| 13 | SCT | 042 | 10.00 | | 83 | 64 | 71 | 53 | 7 | VR | 29.12 | 30.04 | 13 | SCT | 042 | 10.00 | | 88 | 73 | 77 | 61 | 6 | VR | 29.14 | 30.07 | | | | |
| 16 | CLR | NC | 10.00 | | 86 | 59 | 69 | 40 | 0 | 00 | 29.09 | 30.00 | 16 | BKN | 110 | 6.00 | -RA BR | 73 | 71 | 72 | 94 | 0 | 00 | 29.14 | 30.08 | | | | |
| 19 | CLR | NC | 10.00 | | 79 | 62 | 68 | 56 | 0 | 00 | 29.10 | 30.02 | 19 | | | | | 73 | 71 | 72 | 94 | 0 | 00 | 29.14 | 30.08 | | | | |
| 22 | CLR | NC | 10.00 | | 70 | 58 | 63 | 66 | 0 | 00 | 29.13 | 30.06 | 22 | CLR | NC | 10.00 | | 73 | 72 | 72 | 96 | 0 | 00 | 29.18 | 30.11 | | | | |
| SUNRISE: 0547 | | | | | AUG 05 | | | | | SUNSET: 1939 | | | | | SUNRISE: 0552 | | | | | AUG 11 | | | | | SUNSET: 1933 | | | | |
| 01 | SCT | 050 | 10.00 | | 67 | 60 | 63 | 79 | 0 | 00 | 29.13 | 30.07 | 01 | OVC | 002 | 1.25 | BR | 71 | 71 | 71 | 100 | 0 | 00 | 29.16 | 30.09 | | | | |
| 04 | CLR | NC | 10.00 | | 64 | 60 | 62 | 87 | 0 | 00 | 29.10 | 30.03 | 04 | OVC | 014 | 10.00 | | 73 | 71 | 72 | 94 | 0 | 00 | 29.16 | 30.10 | | | | |
| 07 | CLR | NC | 10.00 | | 64 | 60 | 62 | 87 | 0 | 00 | 29.13 | 30.07 | 07 | OVC | 014 | 5.00 | BR | 73 | 72 | 72 | 96 | 0 | 00 | 29.20 | 30.14 | | | | |
| 10 | CLR | NC | 10.00 | | 76 | 62 | 67 | 62 | 3 | VR | 29.13 | 30.06 | 10 | SCT | 027 | 10.00 | | 80 | 72 | 74 | 76 | 5 | 20 | 29.20 | 30.14 | | | | |
| 13 | CLR | NC | 10.00 | | 84 | 57 | 67 | 40 | 5 | VR | 29.09 | 30.02 | 13 | SCT | 027 | 10.00 | | 86 | 72 | 76 | 63 | 3 | VR | 29.16 | 30.09 | | | | |
| 16 | BKN | 110 | 10.00 | | 84 | 54 | 66 | 36 | 6 | VR | 29.06 | 29.99 | 16 | OVC | 110 | 3.00 | -RA BR | 77 | 75 | 76 | 94 | 3 | 23 | 29.13 | 30.06 | | | | |
| 19 | BKN | 100 | 10.00 | | 81 | 59 | 67 | 47 | 0 | 00 | 29.05 | 29.98 | 19 | FEW | 019 | 10.00 | | 75 | 73 | 74 | 94 | 0 | 00 | 29.16 | 30.10 | | | | |
| 22 | CLR | NC | 10.00 | | 73 | 65 | 68 | 76 | 0 | 00 | 29.04 | 29.97 | 22 | CLR | NC | 8.00 | | 73 | 72 | 72 | 96 | 0 | 00 | 29.16 | 30.09 | | | | |
| SUNRISE: 0548 | | | | | AUG 06 | | | | | SUNSET: 1938 | | | | | SUNRISE: 0553 | | | | | AUG 12 | | | | | SUNSET: 1932 | | | | |
| 01 | OVC | 090 | 10.00 | | 71 | 66 | 68 | 84 | 0 | 00 | 29.04 | 29.96 | 01 | BKN | 003 | 8.00 | | 72 | 71 | 71 | 97 | 3 | VR | 29.16 | 30.09 | | | | |
| 04 | OVC | 110 | 10.00 | | 70 | 67 | 68 | 90 | 0 | 00 | 29.02 | 29.94 | 04 | VV | 002 | 0.75 | BR | 72 | 71 | 71 | 97 | 0 | 00 | 29.16 | 30.10 | | | | |
| 07 | OVC | 055 | 10.00 | | 70 | 68 | 69 | 93 | 0 | 00 | 29.06 | 29.98 | 07 | OVC | 002 | 0.50 | FG | 71 | 70 | 70 | 96 | 0 | 00 | 29.16 | 30.09 | | | | |
| 10 | SCT | 080 | 10.00 | | 78 | 69 | 72 | 74 | 0 | 00 | 29.06 | 29.99 | 10 | OVC | 006 | 10.00 | | 76 | 72 | 73 | 88 | 0 | 00 | 29.16 | 30.09 | | | | |
| 13 | OVC | 048 | 10.00 | | 83 | 68 | 73 | 61 | 0 | 00 | 29.05 | 29.97 | 13 | CLR | NC | 10.00 | | 82 | 73 | 76 | 74 | 0 | 00 | 29.12 | 30.04 | | | | |
| 16 | BKN | 033 | 10.00 | | 84 | 69 | 74 | 61 | 5 | 24 | 29.03 | 29.95 | 16 | FEW | 013 | 10.00 | | 83 | 74 | 77 | 74 | 5 | VR | 29.07 | 29.99 | | | | |
| 19 | FEW | 022 | 10.00 | | 82 | 72 | 75 | 72 | 5 | 26 | 29.03 | 29.95 | 19 | SCT | 095 | 10.00 | | 78 | 71 | 73 | 79 | 3 | 24 | 29.06 | 29.98 | | | | |
| 22 | CLR | NC | 10.00 | | 79 | 72 | 74 | 79 | 0 | 00 | 29.04 | 29.96 | 22 | CLR | NC | 10.00 | | 75 | 73 | 74 | 94 | 0 | 00 | 29.05 | 29.97 | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2013

KOQT

WBAN # 53868

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | RELATIVE HUMIDITY (PCT) | WIND | | PRESSURE (INCHES, HG) | | HOUR (LST) | SKY COVER | CEILING 100's of FT. | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | RELATIVE HUMIDITY (PCT) | WIND | | PRESSURE (INCHES, HG) | | | | | |
|---------------|-----------|-------------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|--------------------------|--------------------------|--------------|------------|-----------|-------------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|--------------------------|--------------------------|--------------|--|--|--|--|
| | | | | | DRY BULB | DEW POINT | WET BULB | | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL | | | | | | DRY BULB | DEW POINT | WET BULB | | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL | | | | |
| SUNRISE: 0553 | | | | | AUG 13 | | | | | SUNSET: 1931 | | | | | SUNRISE: 0558 | | | | | AUG 19 | | | | | SUNSET: 1923 | | | | |
| 01 | SCT | 039 | 10.00 | | 75 | 73 | 74 | 94 | 0 | 00 | 29.01 | 29.92 | 01 | OVC | 095 | 10.00 | | 69 | 68 | 68 | 96 | 0 | 00 | 29.19 | 30.13 | | | | |
| 04 | CLR | NC | 10.00 | | 73 | 70 | 71 | 90 | 0 | 00 | 28.97 | 29.89 | 04 | OVC | 100 | 10.00 | | 69 | 68 | 68 | 96 | 0 | 00 | 29.18 | 30.12 | | | | |
| 07 | OVC | 005 | 10.00 | | 72 | 70 | 71 | 94 | 5 | 21 | 28.99 | 29.91 | 07 | OVC | 080 | 10.00 | | 69 | 68 | 68 | 96 | 0 | 00 | 29.19 | 30.13 | | | | |
| 10 | OVC | 060 | 10.00 | -RA | 78 | 70 | 73 | 76 | 5 | VR | 29.01 | 29.93 | 10 | OVC | 060 | 10.00 | | 75 | 67 | 70 | 76 | 0 | 00 | 29.20 | 30.14 | | | | |
| 13 | SCT | 100 | 10.00 | | 83 | 71 | 75 | 67 | 7 | VR | 28.98 | 29.90 | 13 | OVC | 055 | 10.00 | | 76 | 69 | 71 | 79 | 0 | 00 | 29.18 | 30.12 | | | | |
| 16 | BKN | 060 | 10.00 | | 83 | 69 | 73 | 63 | 5 | VR | 28.95 | 29.87 | 16 | OVC | 048 | 10.00 | | 79 | 69 | 72 | 72 | 3 | 30 | 29.14 | 30.08 | | | | |
| 19 | FEW | 044 | 10.00 | | 80 | 68 | 72 | 67 | 0 | 00 | 28.96 | 29.88 | 19 | CLR | NC | 10.00 | | 75 | 69 | 71 | 82 | 0 | 00 | 29.13 | 30.07 | | | | |
| 22 | BKN | 090 | 10.00 | | 75 | 67 | 70 | 76 | 3 | VR | 29.01 | 29.93 | 22 | BKN | 090 | 10.00 | | 71 | 68 | 69 | 90 | 0 | 00 | 29.16 | 30.10 | | | | |
| SUNRISE: 0554 | | | | | AUG 14 | | | | | SUNSET: 1929 | | | | | SUNRISE: 0559 | | | | | AUG 20 | | | | | SUNSET: 1922 | | | | |
| 01 | SCT | 070 | 10.00 | | 71 | 64 | 67 | 79 | 0 | 00 | 29.02 | 29.94 | 01 | BKN | 033 | 10.00 | | 69 | 67 | 68 | 93 | 0 | 00 | 29.16 | 30.09 | | | | |
| 04 | CLR | NC | 10.00 | | 67 | 63 | 65 | 87 | 0 | 00 | 29.04 | 29.96 | 04 | VV | 002 | 0.25 | FG | 67 | 67 | 67 | 100 | 0 | 00 | 29.15 | 30.09 | | | | |
| 07 | CLR | NC | 10.00 | | 66 | 61 | 63 | 84 | 3 | 06 | 29.07 | 30.00 | 07 | OVC | 010 | 10.00 | | 68 | 67 | 67 | 96 | 0 | 00 | 29.19 | 30.13 | | | | |
| 10 | CLR | NC | 10.00 | | 72 | 62 | 66 | 71 | 3 | VR | 29.10 | 30.03 | 10 | BKN | 021 | 10.00 | | 76 | 69 | 71 | 79 | 0 | 00 | 29.23 | 30.16 | | | | |
| 13 | CLR | NC | 10.00 | | 78 | 58 | 66 | 50 | 8 | 06 | 29.09 | 30.02 | 13 | BKN | 110 | 10.00 | | 81 | 69 | 73 | 67 | 0 | 00 | 29.20 | 30.14 | | | | |
| 16 | CLR | NC | 10.00 | | 79 | 56 | 65 | 45 | 7 | 06 | 29.08 | 30.01 | 16 | BKN | 050 | 10.00 | | 83 | 69 | 73 | 63 | 8 | 14 | 29.15 | 30.09 | | | | |
| 19 | CLR | NC | 10.00 | | 73 | 56 | 63 | 55 | 3 | VR | 29.09 | 30.03 | 19 | CLR | NC | 10.00 | | 79 | 67 | 71 | 67 | 0 | 00 | 29.16 | 30.10 | | | | |
| 22 | CLR | NC | 10.00 | | 65 | 55 | 59 | 70 | 5 | 06 | 29.12 | 30.06 | 22 | FEW | 120 | 10.00 | | 72 | 69 | 70 | 91 | 0 | 00 | 29.20 | 30.14 | | | | |
| SUNRISE: 0555 | | | | | AUG 15 | | | | | SUNSET: 1928 | | | | | SUNRISE: 0560 | | | | | AUG 21 | | | | | SUNSET: 1921 | | | | |
| 01 | BKN | 065 | 10.00 | | 64 | 54 | 58 | 70 | 6 | 06 | 29.13 | 30.06 | 01 | SCT | 060 | 10.00 | | 72 | 69 | 70 | 91 | 0 | 00 | 29.21 | 30.14 | | | | |
| 04 | OVC | 040 | 10.00 | | 64 | 53 | 58 | 68 | 5 | VR | 29.12 | 30.05 | 04 | BKN | 049 | 10.00 | | 69 | 68 | 68 | 96 | 0 | 00 | 29.20 | 30.13 | | | | |
| 07 | OVC | 055 | 10.00 | | 63 | 53 | 57 | 70 | 0 | 00 | 29.13 | 30.08 | 07 | VV | 002 | 0.25 | FG | 68 | 67 | 67 | 96 | 0 | 00 | 29.24 | 30.18 | | | | |
| 10 | CLR | NC | 10.00 | | 71 | 57 | 63 | 61 | 0 | 00 | 29.14 | 30.09 | 10 | OVC | 055 | 10.00 | | 78 | 70 | 73 | 76 | 0 | 00 | 29.26 | 30.20 | | | | |
| 13 | CLR | NC | 10.00 | | 79 | 60 | 67 | 52 | 0 | 00 | 29.12 | 30.05 | 13 | OVC | 085 | 1.75 | RA BR | 74 | 72 | 73 | 94 | 9 | 28 | 29.28 | 30.22 | | | | |
| 16 | FEW | 044 | 10.00 | | 81 | 61 | 68 | 51 | 0 | 00 | 29.07 | 30.00 | 16 | CLR | NC | 10.00 | | 77 | 71 | 73 | 82 | 6 | 19 | 29.21 | 30.15 | | | | |
| 19 | OVC | 070 | 10.00 | | 80 | 61 | 68 | 52 | 0 | 00 | 29.07 | 30.01 | 19 | CLR | NC | 10.00 | | 77 | 70 | 72 | 79 | 0 | 00 | 29.18 | 30.11 | | | | |
| 22 | OVC | 050 | 10.00 | | 73 | 65 | 68 | 76 | 0 | 00 | 29.10 | 30.05 | 22 | BKN | 026 | 10.00 | | 73 | 70 | 71 | 90 | 0 | 00 | 29.22 | 30.16 | | | | |
| SUNRISE: 0556 | | | | | AUG 16 | | | | | SUNSET: 1927 | | | | | SUNRISE: 0601 | | | | | AUG 22 | | | | | SUNSET: 1920 | | | | |
| 01 | OVC | 055 | 10.00 | | 71 | 64 | 67 | 79 | 3 | 25 | 29.13 | 30.05 | 01 | OVC | 030 | 10.00 | | 70 | 69 | 69 | 97 | 0 | 00 | 29.23 | 30.17 | | | | |
| 04 | OVC | 046 | 10.00 | | 70 | 63 | 66 | 79 | 0 | 00 | 29.10 | 30.03 | 04 | OVC | 035 | 10.00 | | 71 | 69 | 70 | 94 | 0 | 00 | 29.20 | 30.14 | | | | |
| 07 | OVC | 027 | 10.00 | | 68 | 64 | 65 | 87 | 3 | 05 | 29.14 | 30.08 | 07 | VV | 002 | 0.50 | FG | 69 | 69 | 69 | 100 | 0 | 00 | 29.23 | 30.17 | | | | |
| 10 | OVC | 100 | 10.00 | | 70 | 61 | 64 | 73 | 6 | 08 | 29.15 | 30.10 | 10 | CLR | NC | 10.00 | | 79 | 69 | 72 | 72 | 6 | VR | 29.22 | 30.16 | | | | |
| 13 | FEW | 075 | 10.00 | | 79 | 63 | 69 | 58 | 5 | VR | 29.13 | 30.07 | 13 | CLR | NC | 10.00 | | 86 | 68 | 74 | 55 | 6 | 20 | 29.18 | 30.11 | | | | |
| 16 | BKN | 080 | 10.00 | | 79 | 63 | 69 | 58 | 3 | 07 | 29.10 | 30.03 | 16 | CLR | NC | 10.00 | | 86 | 68 | 74 | 55 | 0 | 00 | 29.12 | 30.04 | | | | |
| 19 | OVC | 100 | 10.00 | | 77 | 65 | 69 | 66 | 0 | 00 | 29.10 | 30.04 | 19 | CLR | NC | 10.00 | | 81 | 72 | 75 | 74 | 0 | 00 | 29.10 | 30.04 | | | | |
| 22 | FEW | 110 | 10.00 | | 72 | 67 | 69 | 84 | 0 | 00 | 29.13 | 30.08 | 22 | CLR | NC | 8.00 | | 74 | 72 | 73 | 94 | 0 | 00 | 29.13 | 30.06 | | | | |
| SUNRISE: 0557 | | | | | AUG 17 | | | | | SUNSET: 1926 | | | | | SUNRISE: 0601 | | | | | AUG 23 | | | | | SUNSET: 1918 | | | | |
| 01 | FEW | 095 | 10.00 | | 68 | 65 | 66 | 90 | 0 | 00 | 29.15 | 30.09 | 01 | SCT | 007 | 6.00 | BR | 73 | 71 | 72 | 94 | 0 | 00 | 29.12 | 30.03 | | | | |
| 04 | OVC | 085 | 10.00 | | 67 | 64 | 65 | 91 | 0 | 00 | 29.15 | 30.09 | 04 | OVC | 002 | 1.50 | BR | 72 | 71 | 71 | 97 | 5 | 20 | 29.10 | 30.03 | | | | |
| 07 | OVC | 020 | 10.00 | | 68 | 65 | 66 | 90 | 3 | VR | 29.16 | 30.10 | 07 | OVC | 004 | 7.00 | | 72 | 70 | 71 | 94 | 0 | 00 | 29.13 | 30.06 | | | | |
| 10 | BKN | 085 | 10.00 | | 72 | 61 | 65 | 68 | 5 | VR | 29.20 | 30.14 | 10 | CLR | NC | 10.00 | | 78 | 71 | 73 | 79 | 0 | 00 | 29.15 | 30.08 | | | | |
| 13 | FEW | 055 | 10.00 | | 74 | 60 | 65 | 62 | 0 | 00 | 29.16 | 30.11 | 13 | BKN | 090 | 10.00 | | 82 | 69 | 73 | 65 | 3 | 08 | 29.13 | 30.05 | | | | |
| 16 | CLR | NC | 10.00 | | 75 | 61 | 66 | 62 | 6 | 08 | 29.13 | 30.08 | 16 | SCT | 110 | 9.00 | -RA | 70 | 68 | 69 | 93 | 0 | 00 | 29.10 | 30.03 | | | | |
| 19 | OVC | 075 | 2.50 | RA BR | 69 | 67 | 68 | 93 | 3 | 08 | 29.15 | 30.10 | 19 | CLR | NC | 8.00 | | 72 | 70 | 71 | 94 | 0 | 00 | 29.10 | 30.04 | | | | |
| 22 | OVC | 034 | 4.00 | -RA BR | 67 | 66 | 66 | 97 | 0 | 00 | 29.18 | 30.13 | 22 | BKN | 001 | 3.00 | BR | 69 | 68 | 68 | 96 | 0 | 00 | 29.14 | 30.08 | | | | |
| SUNRISE: 0557 | | | | | AUG 18 | | | | | SUNSET: 1925 | | | | | SUNRISE: 0602 | | | | | AUG 24 | | | | | SUNSET: 1917 | | | | |
| 01 | OVC | 029 | 8.00 | | 67 | 65 | 66 | 93 | 0 | 00 | 29.18 | 30.12 | 01 | VV | 002 | 0.50 | FG | 68 | 68 | 68 | 100 | 0 | 00 | 29.15 | 30.09 | | | | |
| 04 | OVC | 035 | 8.00 | | 67 | 65 | 66 | 93 | 0 | 00 | 29.16 | 30.11 | 04 | OVC | 002 | 1.50 | BR | 69 | 68 | 68 | 96 | 0 | 00 | 29.17 | 30.11 | | | | |
| 07 | OVC | 016 | 7.00 | | 67 | 66 | 66 | 97 | 0 | 00 | 29.20 | 30.15 | 07 | FEW | 004 | 3.00 | BR | 68 | 67 | 67 | 96 | 0 | 00 | 29.22 | 30.17 | | | | |
| 10 | OVC | 028 | 10.00 | | 71 | 66 | 68 | 84 | 0 | 00 | 29.24 | 30.19 | 10 | OVC | 012 | 10.00 | | 74 | 68 | 70 | 82 | 5 | VR | 29.26 | 30.21 | | | | |
| 13 | SCT | 038 | 10.00 | | 76 | 67 | 70 | 74 | 5 | VR | 29.21 | 30.15 | 13 | SCT | 035 | 10.00 | | 84 | 66 | 72 | 55 | 8 | 09 | 29.24 | 30.17 | | | | |
| 16 | OVC | 050 | 10.00 | | 73 | 65 | 68 | 76 | 5 | VR | 29.18 | 30.13 | 16 | CLR | NC | 10.00 | | 88 | 61 | 70 | 40 | 3 | VR | 29.22 | 30.15 | | | | |
| 19 | FEW | 045 | 10.00 | | 73 | 67 | 69 | 81 | 0 | 00 | 29.18 | 30.13 | 19 | CLR | NC | 10.00 | | 80 | 65 | 70 | 60 | 0 | 00 | 29.22 | 30.16 | | | | |
| 22 | OVC | 090 | 10.00 | | 71 | 69 | 70 | 94 | 0 | 00 | 29.21 | 30.16 | 22 | CLR | NC | 10.00 | | 70 | 67 | 68 | 90 | 0 | 00 | 29.27 | 30.22 | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2013

KOQT

WBAN # 53868

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | RELATIVE HUMIDITY (PCT) | WIND | | PRESSURE (INCHES, HG) | |
|-----------------------------|-----------|-------------------------|-----------------------|---------|---------------------|-----------|----------|----------------------------|-------------|--------------------------|--------------------------|--------------|
| | | | | | DRY BULB | DEW POINT | WET BULB | | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL |
| SUNRISE: 0603 AUG 25 | | | | | SUNSET: 1916 | | | | | | | |
| 01 | OVC | 043 | 10.00 | | 68 | 66 | 67 | 93 | 0 | 00 | 29.30 | 30.24 |
| 04 | CLR | NC | 10.00 | | 65 | 63 | 64 | 93 | 0 | 00 | 29.34 | 30.27 |
| 07 | CLR | NC | 9.00 | | 64 | 62 | 63 | 93 | 0 | 00 | 29.40 | 30.34 |
| 10 | CLR | NC | 10.00 | | 75 | 62 | 67 | 64 | 0 | 00 | 29.42 | 30.36 |
| 13 | CLR | NC | 10.00 | | 82 | 62 | 69 | 51 | 3 | VR | 29.37 | 30.30 |
| 16 | CLR | NC | 10.00 | | 84 | 59 | 68 | 43 | 0 | 00 | 29.31 | 30.24 |
| 19 | CLR | NC | 10.00 | | 79 | 64 | 69 | 60 | 0 | 00 | 29.30 | 30.25 |
| 22 | CLR | NC | 10.00 | | 68 | 65 | 66 | 90 | 0 | 00 | 29.34 | 30.29 |
| SUNRISE: 0604 AUG 26 | | | | | SUNSET: 1914 | | | | | | | |
| 01 | CLR | NC | 10.00 | | 65 | 63 | 64 | 93 | 0 | 00 | 29.35 | 30.29 |
| 04 | CLR | NC | 10.00 | | 64 | 62 | 63 | 93 | 0 | 00 | 29.33 | 30.27 |
| 07 | VV | 002 | 0.75 | BR | 62 | 61 | 61 | 96 | 0 | 00 | 29.35 | 30.30 |
| 10 | CLR | NC | 10.00 | | 72 | 64 | 67 | 76 | 0 | 00 | 29.37 | 30.32 |
| 13 | FEW | 042 | 10.00 | | 82 | 63 | 70 | 53 | 6 | VR | 29.30 | 30.24 |
| 16 | CLR | NC | 10.00 | | 84 | 61 | 69 | 46 | 0 | 00 | 29.24 | 30.18 |
| 19 | CLR | NC | 10.00 | | 79 | 66 | 70 | 65 | 0 | 00 | 29.21 | 30.15 |
| 22 | CLR | NC | 10.00 | | 72 | 67 | 69 | 84 | 0 | 00 | 29.21 | 30.16 |
| SUNRISE: 0604 AUG 27 | | | | | SUNSET: 1913 | | | | | | | |
| 01 | CLR | NC | 8.00 | | 68 | 66 | 67 | 93 | 0 | 00 | 29.21 | 30.15 |
| 04 | CLR | NC | 7.00 | | 67 | 65 | 66 | 93 | 0 | 00 | 29.19 | 30.12 |
| 07 | CLR | NC | 5.00 | BR | 66 | 64 | 65 | 93 | 0 | 00 | 29.20 | 30.14 |
| 10 | CLR | NC | 10.00 | | 78 | 68 | 71 | 71 | 0 | 00 | 29.20 | 30.14 |
| 13 | BKN | 075 | 10.00 | | 84 | 67 | 73 | 57 | 0 | 00 | 29.16 | 30.09 |
| 16 | OVC | 090 | 10.00 | | 84 | 68 | 73 | 59 | 0 | 00 | 29.12 | 30.05 |
| 19 | CLR | NC | 10.00 | | 81 | 69 | 73 | 67 | 0 | 00 | 29.10 | 30.04 |
| 22 | CLR | NC | 7.00 | | 75 | 71 | 72 | 88 | 0 | 00 | 29.13 | 30.06 |
| SUNRISE: 0605 AUG 28 | | | | | SUNSET: 1912 | | | | | | | |
| 01 | CLR | NC | 5.00 | BR | 71 | 69 | 70 | 94 | 0 | 00 | 29.12 | 30.04 |
| 04 | CLR | NC | 5.00 | BR | 70 | 68 | 69 | 93 | 0 | 00 | 29.10 | 30.02 |
| 07 | VV | 002 | 0.50 | FG | 69 | 68 | 68 | 96 | 0 | 00 | 29.13 | 30.06 |
| 10 | CLR | NC | 10.00 | | 81 | 70 | 74 | 69 | 0 | 00 | 29.13 | 30.05 |
| 13 | SCT | 040 | 10.00 | | 86 | 69 | 74 | 57 | 0 | 00 | 29.10 | 30.02 |
| 16 | CLR | NC | 10.00 | | 90 | 67 | 74 | 47 | 0 | 00 | 29.06 | 29.97 |
| 19 | CLR | NC | 10.00 | | 85 | 70 | 75 | 61 | 3 | 27 | 29.06 | 29.98 |
| 22 | CLR | NC | 10.00 | | 76 | 72 | 73 | 88 | 0 | 00 | 29.08 | 29.99 |
| SUNRISE: 0606 AUG 29 | | | | | SUNSET: 1910 | | | | | | | |
| 01 | BKN | 070 | 7.00 | | 73 | 71 | 72 | 94 | 0 | 00 | 29.06 | 29.98 |
| 04 | OVC | 070 | 10.00 | | 74 | 71 | 72 | 91 | 0 | 00 | 29.05 | 29.96 |
| 07 | BKN | 085 | 8.00 | | 74 | 71 | 72 | 91 | 0 | 00 | 29.07 | 29.98 |
| 10 | OVC | 080 | 10.00 | | 79 | 70 | 73 | 74 | 3 | 21 | 29.08 | 30.01 |
| 13 | FEW | 034 | 10.00 | | 88 | 71 | 76 | 57 | 0 | 00 | 29.05 | 29.97 |
| 16 | CLR | NC | 10.00 | | 92 | 69 | 76 | 47 | 3 | VR | 29.01 | 29.93 |
| 19 | SCT | 060 | 10.00 | | 84 | 73 | 76 | 70 | 0 | 00 | 29.02 | 29.93 |
| 22 | CLR | NC | 8.00 | | 77 | 73 | 74 | 88 | 0 | 00 | 29.05 | 29.97 |
| SUNRISE: 0607 AUG 30 | | | | | SUNSET: 1909 | | | | | | | |
| 01 | CLR | NC | 4.00 | BR | 74 | 72 | 73 | 94 | 0 | 00 | 29.04 | 29.96 |
| 04 | OVC | 002 | 1.00 | BR | 71 | 70 | 70 | 96 | 0 | 00 | 29.03 | 29.94 |
| 07 | VV | 002 | 0.25 | FG | 71 | 70 | 70 | 96 | 0 | 00 | 29.07 | 29.99 |
| 10 | CLR | NC | 10.00 | | 80 | 71 | 74 | 74 | 0 | 00 | 29.08 | 30.00 |
| 13 | BKN | 050 | 10.00 | | 88 | 71 | 76 | 57 | 0 | 00 | 29.04 | 29.95 |
| 16 | SCT | 045 | 10.00 | | 89 | 72 | 77 | 57 | 6 | VR | 28.99 | 29.91 |
| 19 | CLR | NC | 10.00 | | 83 | 71 | 75 | 67 | 5 | 26 | 28.98 | 29.91 |
| 22 | CLR | NC | 9.00 | | 77 | 73 | 74 | 88 | 0 | 00 | 29.00 | 29.91 |

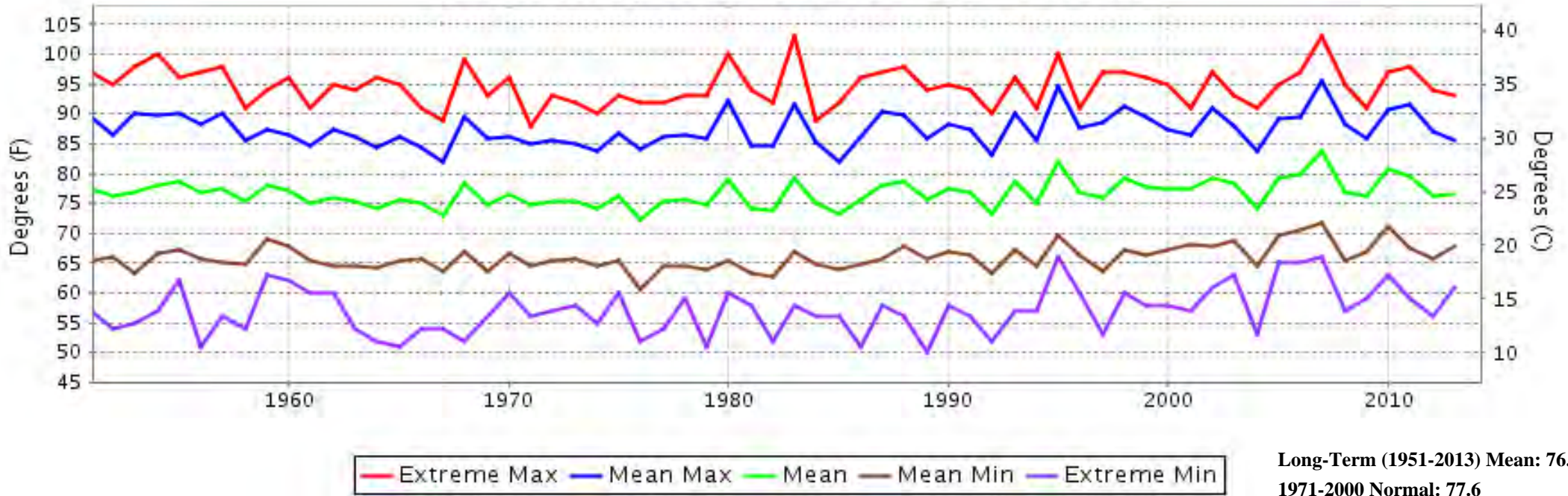
| HOUR (LST) | SKY COVER | CEILING 100's of FT. | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | RELATIVE HUMIDITY (PCT) | WIND | | PRESSURE (INCHES, HG) | |
|-----------------------------|-----------|-------------------------|-----------------------|---------|---------------------|-----------|----------|----------------------------|-------------|--------------------------|--------------------------|--------------|
| | | | | | DRY BULB | DEW POINT | WET BULB | | SPEED (MPH) | DIRECTION Tens of Deg | STATION | SEA LEVEL |
| SUNRISE: 0608 AUG 31 | | | | | SUNSET: 1908 | | | | | | | |
| 01 | SCT | 065 | 9.00 | | 75 | 72 | 73 | 90 | 0 | 00 | 29.00 | 29.91 |
| 04 | BKN | 027 | 7.00 | | 75 | 72 | 73 | 90 | 0 | 00 | 29.00 | 29.91 |
| 07 | OVC | 010 | 5.00 | BR | 76 | 73 | 74 | 91 | 3 | 25 | 29.02 | 29.93 |
| 10 | OVC | 011 | 6.00 | HZ | 78 | 73 | 75 | 85 | 3 | VR | 29.03 | 29.95 |
| 13 | SCT | 025 | 10.00 | | 88 | 73 | 77 | 61 | 5 | VR | 28.99 | 29.90 |
| 16 | CLR | NC | 10.00 | | 91 | 68 | 75 | 47 | 5 | VR | 28.92 | 29.83 |
| 19 | CLR | NC | 10.00 | | 85 | 72 | 76 | 65 | 0 | 00 | 28.93 | 29.85 |
| 22 | FEW | 041 | 10.00 | | 71 | 68 | 69 | 90 | 3 | VR | 28.99 | 29.91 |

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.

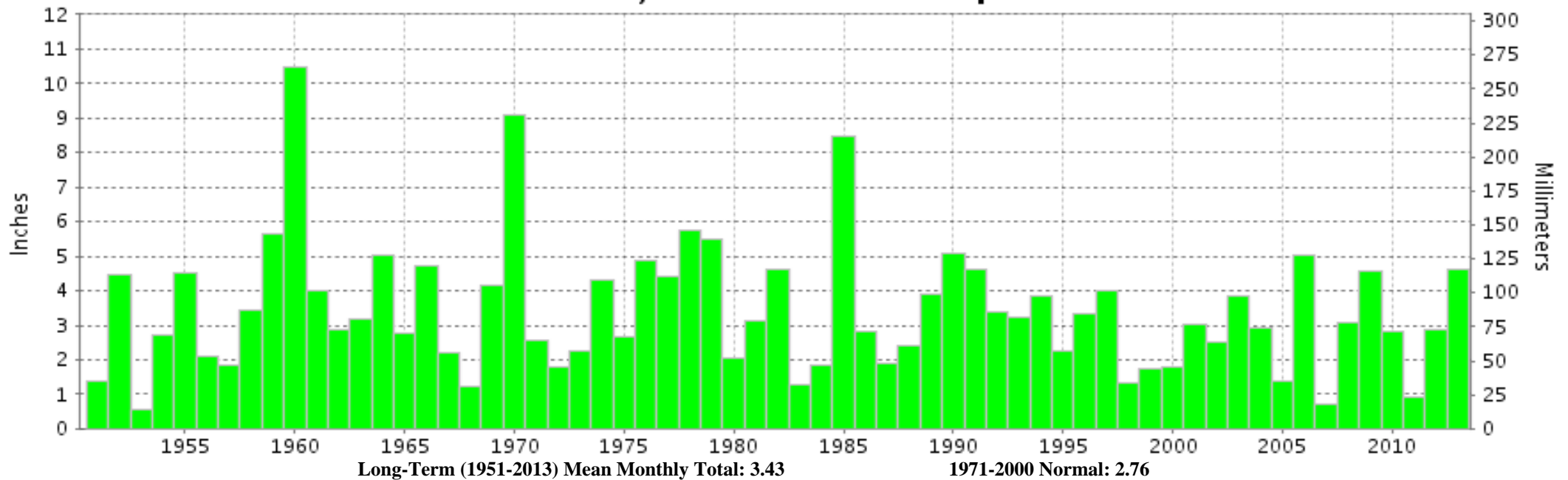
SUMMARY BY HOUR

| HOUR (LST) | AVERAGES | | | | | | | | RESULTANT WIND (MPH) | |
|------------|----------|-----------|----------|-------------------|-----------------------|-----------|--------------------|------------------|----------------------|-----------|
| | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY | PRESSURE (Inches, HG) | | VISIBILITY (Miles) | WIND SPEED (MPH) | SPEED | DIRECTION |
| | | | | | STATION | SEA LEVEL | | | | |
| 01 | 71 | 68 | 69 | 91 | 29.12 | 30.05 | 8.54 | 1 | XX | XX |
| 02 | 70 | 68 | 69 | 91 | 29.12 | 30.04 | 8.75 | 0 | XX | XX |
| 03 | 70 | 67 | 68 | 91 | 29.11 | 30.04 | 8.06 | 0 | XX | XX |
| 04 | 70 | 67 | 68 | 92 | 29.11 | 30.04 | 7.87 | 0 | XX | XX |
| 05 | 69 | 67 | 68 | 93 | 29.12 | 30.05 | 7.62 | 0 | XX | XX |
| 06 | 69 | 67 | 68 | 93 | 29.13 | 30.06 | 6.90 | 1 | 1 | 09 |
| 07 | 69 | 67 | 68 | 93 | 29.14 | 30.08 | 6.59 | 1 | 0 | 27 |
| 08 | 71 | 67 | 69 | 89 | 29.15 | 30.09 | 8.02 | 2 | 2 | 09 |
| 09 | 74 | 68 | 70 | 83 | 29.15 | 30.09 | 9.42 | 2 | 1 | 09 |
| 10 | 77 | 68 | 71 | 75 | 29.16 | 30.09 | 9.68 | 2 | XX | XX |
| 11 | 79 | 68 | 72 | 69 | 29.16 | 30.09 | 9.31 | 3 | 1 | 27 |
| 12 | 81 | 68 | 72 | 65 | 29.14 | 30.07 | 9.87 | 3 | 1 | 27 |
| 13 | 82 | 67 | 72 | 61 | 29.13 | 30.06 | 9.67 | 4 | 1 | 27 |
| 14 | 83 | 67 | 72 | 59 | 29.12 | 30.04 | 9.97 | 3 | 2 | 27 |
| 15 | 83 | 67 | 72 | 60 | 29.10 | 30.03 | 9.41 | 4 | 0 | 27 |
| 16 | 82 | 66 | 72 | 61 | 29.09 | 30.02 | 9.61 | 3 | 0 | 09 |
| 17 | 82 | 66 | 72 | 60 | 29.09 | 30.02 | 10.00 | 3 | 1 | 27 |
| 18 | 81 | 67 | 71 | 63 | 29.09 | 30.01 | 9.60 | 2 | 2 | 27 |
| 19 | 79 | 68 | 71 | 70 | 29.09 | 30.02 | 9.68 | 1 | 2 | 27 |
| 20 | 76 | 69 | 71 | 79 | 29.10 | 30.03 | 9.48 | 1 | 2 | 27 |
| 21 | 74 | 69 | 70 | 84 | 29.12 | 30.05 | 9.40 | 0 | XX | XX |
| 22 | 73 | 69 | 70 | 87 | 29.12 | 30.05 | 9.26 | 1 | 1 | 27 |
| 23 | 72 | 68 | 69 | 88 | 29.13 | 30.05 | 8.85 | 1 | XX | XX |
| 24 | 71 | 68 | 69 | 89 | 29.12 | 30.05 | 8.65 | 1 | XX | XX |

OAK RIDGE, TN AUGUST Temperatures



OAK RIDGE, TN AUGUST Precipitation





**AUGUST 2013
OAK RIDGE, TN**

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

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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