



JANUARY 2015 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

KNOXVILLE, TN
MC GHEE TYSON AIRPORT (KTYS)
Lat:35° 49'N Long: 83° 59'W Elev (Ground) 962 Feet
Time Zone : EASTERN WBAN: 13891 ISSN#: 0198-4810



| 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 | | 0700 LST 11 | 1300 LST 12 | 2400 LST 13 | 2400 LST 14 | AVERAGE STATION 15 | AVERAGE SEA LEVEL 16 | RESULTANT SPEED 17 | RES DIR 18 | AVERAGE SPEED 19 | MAXIMUM | | | | | |
| | | | | | | | | | | | | | | | | | | | 3-SEC | | 2-MIN | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | | |
| 01 | 42 | 22 | 32 | -6 | 25 | 30 | 33 | 0 | RA | 0 | | 0.0 | T | 29.28 | 30.34 | 3.1 | 23 | 3.3 | 13 | 23 | 12 | 22 | 01 | |
| 02 | 43 | 39 | 41 | 3 | 36 | 39 | 24 | 0 | RA DZ BR HZ | 0 | | 0.0 | T | 29.24 | 30.31 | 3.1 | 03 | 4.4 | 12 | 02 | 10 | 03 | 02 | |
| 03 | 55 | 42 | 49 | 11 | 46 | 47 | 16 | 0 | TS TSRA RA BR HZ VCTS | 0 | | 0.0 | 0.68 | 29.08 | 30.11 | 1.8 | 36 | 3.5 | 22 | 32 | 18 | 32 | 03 | |
| 04 | 64* | 40 | 52 | 14 | 46 | 51 | 13 | 0 | RA | 0 | | 0.0 | 0.31 | 28.98 | 30.06 | 11.9 | 24 | 15.1 | 40* | 16 | 29 | 27 | 04 | |
| 05 | 40 | 28 | 34 | -4 | 22 | 29 | 31 | 0 | | 0 | | 0.0 | 0.00 | 29.41 | 30.50 | 3.7 | 28 | 5.5 | 24 | 19 | 20 | 28 | 05 | |
| 06 | 43 | 24 | 34 | -3 | 22 | 29 | 31 | 0 | | 0 | | 0.0 | 0.00 | 29.23 | 30.31 | 7.3 | 25 | 7.5 | 24 | 25 | 20 | 25 | 06 | |
| 07 | 30 | 10 | 20 | -17 | 9 | 20 | 45 | 0 | SN | 0 | | 0 | T | 29.31 | 30.43 | 8.5 | 32 | 11.4 | 30 | 35 | 22 | 35 | 07 | |
| 08 | 29 | 6* | 18* | -19 | 1 | 13 | 47 | 0 | | 0 | | 0.0 | 0.00 | 29.45 | 30.52 | 2.7 | 29 | 7.1 | 23 | 26 | 18 | 26 | 08 | |
| 09 | 36 | 22 | 29 | -8 | 7 | 23 | 36 | 0 | | 0 | | 0.0 | 0.00 | 29.23 | 30.34 | 11.4 | 24 | 12.6 | 35 | 22 | 29 | 23 | 09 | |
| 10 | 37 | 14 | 26 | -11 | 6 | 19 | 39 | 0 | | 0 | | 0.0 | 0.00 | 29.44 | 30.54 | 4.0 | 03 | 4.6 | 15 | 04 | 12 | 03 | 10 | |
| 11 | 40 | 17 | 29 | -8 | 15 | 26 | 36 | 0 | RA | 0 | | 0.0 | T | 29.41 | 30.48 | 2.1 | 03 | 2.6 | 10 | 31 | 8 | 04 | 11 | |
| 12 | 43 | 34 | 39 | 2 | 36 | 38 | 26 | 0 | RA DZ BR | 0 | | 0.0 | 1.13 | 29.19 | 30.25 | 0.8 | 36 | 2.5 | 19 | 29 | 16 | 29 | 12 | |
| 13 | 42 | 33 | 38 | 1 | 35 | 36 | 27 | 0 | RA DZ BR | 0 | | 0.0 | T | 29.23 | 30.32 | 8.8 | 01 | 9.1 | 20 | 02 | 17 | 03 | 13 | |
| 14 | 40 | 29 | 35 | -2 | 32 | 34 | 30 | 0 | DZ BR | 0 | | 0.0 | 0.01 | 29.21 | 30.28 | 1.5 | 29 | 3.7 | 11 | 36 | 9 | 03 | 14 | |
| 15 | 36 | 26 | 31 | -6 | 28 | 30 | 34 | 0 | SN BR | 0 | | 0 | T | 29.13 | 30.20 | 1.3 | 29 | 2.9 | 10 | 29 | 8 | 28 | 15 | |
| 16 | 49 | 28 | 39 | 2 | 28 | 33 | 26 | 0 | BR | 0 | | 0.0 | 0.00 | 29.15 | 30.23 | 1.3 | 23 | 3.1 | 11 | 03 | 8 | 05 | 16 | |
| 17 | 59 | 24 | 42 | 5 | 28 | 35 | 23 | 0 | BR | 0 | | 0.0 | 0.00 | 29.10 | 30.15 | 4.0 | 21 | 5.1 | 30 | 21 | 23 | 22 | 17 | |
| 18 | 54 | 38 | 46 | 9 | 30 | 40 | 19 | 0 | RA | 0 | | 0.0 | 0.02 | 28.97 | 30.02 | 12.1 | 24 | 12.9 | 34 | 24 | 25 | 24 | 18 | |
| 19 | 60 | 34 | 47 | 10 | 26 | 38 | 18 | 0 | | 0 | | 0.0 | 0.00 | 28.98 | 30.02 | 10.4 | 23 | 10.5 | 25 | 22 | 22 | 22 | 19 | |
| 20 | 63 | 41 | 52* | 14 | 31 | 43 | 13 | 0 | | 0 | | 0.0 | 0.00 | 28.89 | 29.93 | 9.0 | 23 | 9.3 | 25 | 23 | 21 | 22 | 20 | |
| 21 | 57 | 36 | 47 | 9 | 29 | 39 | 18 | 0 | | 0 | | 0.0 | 0.00 | 29.03 | 30.10 | 3.6 | 26 | 4.7 | 18 | 25 | 15 | 27 | 21 | |
| 22 | 47 | 32 | 40 | 2 | 27 | 35 | 25 | 0 | | 0 | | 0.0 | 0.00 | 29.24 | 30.31 | 2.7 | 01 | 3.5 | 14 | 36 | 10 | 36 | 22 | |
| 23 | 42 | 36 | 39 | 1 | 36 | 38 | 26 | 0 | RA BR | 0 | | 0.0 | 0.85 | 29.02 | 30.02 | 5.6 | 02 | 6.0 | 15 | 04 | 13 | 04 | 23 | |
| 24 | 43 | 33 | 38 | 0 | 30 | 34 | 27 | 0 | RA SN BR | 0 | | 0.1 | 0.21 | 28.78 | 29.85 | 8.0 | 25 | 9.7 | 23 | 27 | 18 | 26 | 24 | |
| 25 | 54 | 32 | 43 | 5 | 32 | 38 | 22 | 0 | RA | 0 | | 0.0 | 0.02 | 28.77 | 29.80 | 8.7 | 22 | 9.9 | 33 | 24 | 26 | 23 | 25 | |
| 26 | 44 | 30 | 37 | -1 | 32 | 34 | 28 | 0 | RA SN BR HZ | 0 | | 0.7 | 0.11 | 28.76 | 29.84 | 9.6 | 26 | 10.0 | 23 | 28 | 21 | 26 | 26 | |
| 27 | 36 | 30 | 33 | -5 | 28 | 31 | 32 | 0 | RA SN BR | 0 | | 0.3 | 0.03 | 28.93 | 30.02 | 1.6 | 32 | 4.6 | 19 | 01 | 16 | 01 | 27 | |
| 28 | 44 | 22 | 33 | -5 | 18 | 28 | 32 | 0 | | 0 | | 0.0 | 0.00 | 29.20 | 30.28 | 4.3 | 03 | 5.0 | 15 | 04 | 13 | 04 | 28 | |
| 29 | 56 | 27 | 42 | 4 | 30 | 36 | 23 | 0 | RA SN | 0 | | 0 | T | 29.08 | 30.14 | 7.9 | 24 | 9.9 | 34 | 24 | 29* | 23 | 29 | |
| 30 | 43 | 28 | 36 | -3 | 22 | 32 | 29 | 0 | SN | 0 | | 0 | T | 29.26 | 30.35 | 6.1 | 35 | 6.7 | 21 | 01 | 16 | 35 | 30 | |
| 31 | 46 | 20 | 33 | -6 | 18 | 29 | 32 | 0 | | 0 | | 0.0 | 0.00 | 29.29 | 30.36 | 2.5 | 02 | 3.9 | 12 | 04 | 9 | 04 | 31 | |
| 45.7 | | 28.3 | 37.0 | Σ | 26.2 | 33.1 | 27.8 | 0.0 | < MONTHLY AVERAGES TOTALS > | | | 1.1 | 3.39 | 29.14 | 30.21 | 3.1 | 27 | 6.8 | < MONTHLY AVERAGES | | | | | |
| -1.6 | | -0.9 | -1.2 | | <----- DEPARTURE FROM NORMAL -----> | | | | | | | -0.93 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 | | | | | | | | | | | |
| DEGREE DAYS | | | | | | | | | GREATEST 24-HR PRECIPITATION : 1.13 DATE : 12 | | | | SEA LEVEL PRESSURE | | | | DATE TIME | | | | | | | |
| MONTHLY | | | | | | | | | GREATEST 24-HR SNOWFALL : 0.7 DATE : 26 | | | | MAXIMUM : 30.73 | | | | 08 0159 | | | | | | | |
| SEASON TO DATE | | | | | | | | | GREATEST SNOW DEPTH : 0 DATE : | | | | MINIMUM : 29.66 | | | | 26 0247 | | | | | | | |
| TOTAL DEPARTURE | | | TOTAL DEPARTURE | | | NUMBER OF -> DAYS WITH | | | | MAXIMUM TEMP >= 90 : 0 | | MINIMUM TEMP <= 32 : 20 | | PRECIPITATION >= 0.01 INCH : 11 | | | | | | | | | | |
| HEATING : 861 | | | 32 | | | 2351 89 | | | | MAXIMUM TEMP <= 32 : 2 | | MINIMUM TEMP <= 0 : 0 | | PRECIPITATION >= 0.10 INCH : 6 | | | | | | | | | | |
| COOLING : 0 | | | 0 | | | 0 0 | | | | THUNDERSTORMS : 1 | | HEAVY FOG : 0 | | SNOWFALL >= 1.0 INCH : 0 | | | | | | | | | | |

JANUARY 2015
KNOXVILLE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
JANUARY 2015

WBAN # 13891

| 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 | | | | | | | | | | | | | 01 | | | | | | | | | | | | 01 | T | T | | |
| 02 | | | | | | | | | | | | | 02 | | T | T | T | T | T | T | | | | | 02 | T | T | | |
| 03 | | | | | | | | | | | | | 03 | 0.01 | T | T | T | T | T | T | T | | | | 03 | 0.68 | 0.68 | | |
| 04 | 0.04 | 0.05 | 0.03 | 0.03 | 0.08 | 0.08 | T | | | | | | 04 | T | | | | | | | 0.15 | 0.16 | 0.36 | 04 | 0.31 | 0.31 | | | |
| 05 | | | | | | | | | | | | | 05 | | | | | | | | | | | | 05 | 0.00 | 0.00 | | |
| 06 | | | | | | | | | | | | | 06 | | | | | | | | | | | | 06 | 0.00 | 0.00 | | |
| 07 | | | | | | | | | | | | | 07 | | | | | | | | | | | | 07 | T | T | | |
| 08 | | | | | | | | | | | | | 08 | | | | | | | | | | | | 08 | 0.00 | 0.00 | | |
| 09 | | | | | | | | | | | | | 09 | | | | | | | | | | | | 09 | 0.00 | 0.00 | | |
| 10 | | | | | | | | | | | | | 10 | | | | | | | | | | | | 10 | 0.00 | 0.00 | | |
| 11 | | | | | | | | | | | | | 11 | | | | | | | | | | | | 11 | T | T | | |
| 12 | | | | T | 0.01 | 0.03 | 0.04 | 0.01 | 0.18 | 0.10 | 0.05 | 0.09 | 12 | 0.12 | 0.12 | 0.11 | 0.02 | 0.02 | 0.10 | 0.02 | T | T | T | 12 | 1.13 | 1.13 | | | |
| 13 | T | T | T | T | T | T | T | T | T | T | T | T | 13 | | | | T | T | T | T | T | T | T | 13 | T | T | | | |
| 14 | T | | 0.01 | T | T | T | T | T | T | T | T | T | 14 | | | | | | | | | | | 14 | 0.01 | 0.01 | | | |
| 15 | | | | | | | | | | | | | 15 | | | | T | T | T | T | T | | | 15 | T | T | | | |
| 16 | | | | | | | | | | | | | 16 | | | | | | | | | | | | 16 | 0.00 | 0.00 | | |
| 17 | | | | | | | | | | | | | 17 | | | | | | | | | | | | 17 | 0.00 | 0.00 | | |
| 18 | | | | | T | T | 0.01 | 0.01 | | | | | 18 | | | | | | | | | | | | 18 | 0.02 | 0.02 | | |
| 19 | | | | | | | | | | | | | 19 | | | | | | | | | | | | 19 | 0.00 | 0.00 | | |
| 20 | | | | | | | | | | | | | 20 | | | | | | | | | | | | 20 | 0.00 | 0.00 | | |
| 21 | | | | | | | | | | | | | 21 | | | | | | | | | | | | 21 | 0.00 | 0.00 | | |
| 22 | | | | | | | | | | | | | 22 | | | | | | | | | | | | 22 | 0.00 | 0.00 | | |
| 23 | | | | T | 0.02 | 0.01 | 0.02 | 0.08 | 0.03 | 0.02 | 0.02 | T | 23 | 0.01 | 0.18 | 0.09 | 0.05 | 0.06 | 0.06 | 0.08 | 0.03 | 0.02 | 0.04 | 0.03 | T | 23 | 0.85 | 0.85 | |
| 24 | T | 0.01 | 0.02 | 0.02 | 0.04 | 0.05 | 0.04 | 0.02 | 0.01 | | | | 24 | | | | T | | | | | | | T | 24 | 0.21 | 0.21 | | |
| 25 | | | | | | | | | | | | | 25 | | | | | | | T | T | | T | 0.01 | 0.01 | 25 | 0.02 | 0.02 | |
| 26 | T | 0.01 | 0.08 | 0.01 | T | T | | T | T | | | | 26 | | | | | | | | | | T | 0.01 | T | T | 26 | 0.11 | 0.11 |
| 27 | T | T | T | T | T | 0.01 | 0.02 | T | T | T | T | T | 27 | T | T | T | | | | | | | | T | 27 | 0.03 | 0.03 | | |
| 28 | | | | | | | | | | | | | 28 | | | | | | | | | | | | 28 | 0.00 | 0.00 | | |
| 29 | | | | | | | | | | | | | 29 | | | | | | | | | | | | T | T | 29 | 0.02 | 0.02 |
| 30 | | | | | | | | | | | | | 30 | | | | | | | | | | | | 30 | T | T | | |
| 31 | | | | | | | | | | | | | 31 | | | | | | | | | | | | 31 | 0.00 | 0.00 | | |

* 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) | 0.08 | 0.14 | 0.20 | 0.24 | 0.26 | 0.34 | 0.37 | 0.38 | 0.46 | 0.52 | 0.56 | 0.67 |
| Ending Date | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 |
| Ending Time (Hr/Min) | 2316 | 2321 | 2326 | 2328 | 2328 | 2328 | 2328 | 2328 | 2328 | 2328 | 2328 | 2340 |

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 | GL Glaze |
| VC In the Vicinity | UP Unkown Precipitation | | |

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

KNOXVILLE, TN JANUARY 2015

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.

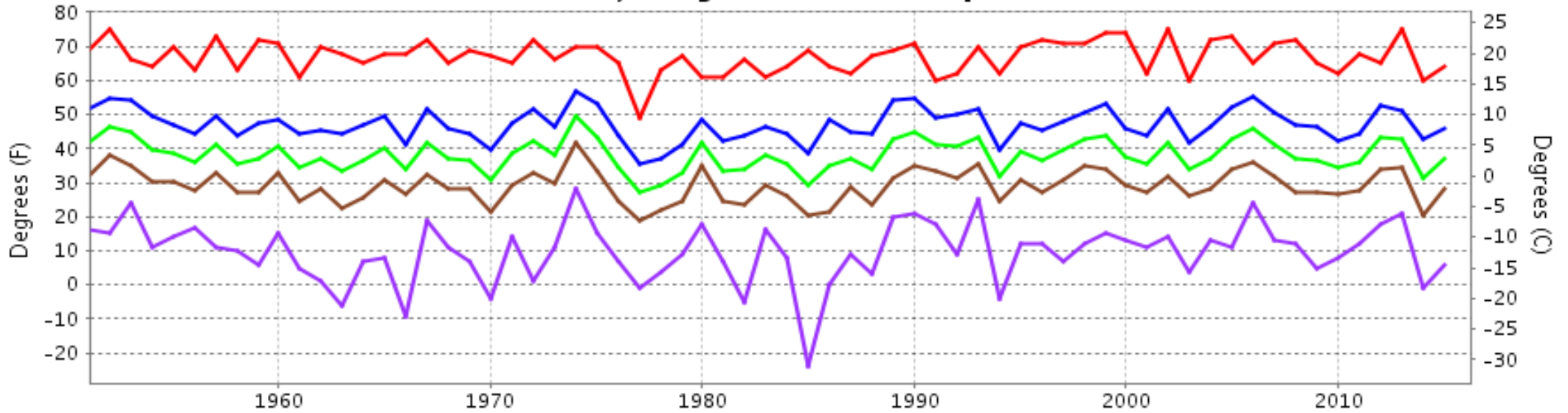
NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Station Augmentation-CONTRACTOR ON AIRPORT
Lat/Lon:/ Elevation:
Distance:2200 FT Dir:W
Augmented Elements:Temp,Precip,Snow
Equipment:SRG, PSY, Snow Board, Snow stick

| Date | VISIBILITY (MILES) | | |
|-----------------------------------|--------------------|---------|--------|
| | MINIMUM | MAXIMUM | |
| 01 | 7.00 | 10.00 | |
| 02 | 1.00 | 10.00 | |
| 03 | 2.00 | 10.00 | |
| 04 | 7.00 | 10.00 | |
| 05 | 10.00 | 10.00 | |
| 06 | 10.00 | 10.00 | |
| 07 | 9.00 | 10.00 | |
| 08 | 10.00 | 10.00 | |
| 09 | 10.00 | 10.00 | |
| 10 | 10.00 | 10.00 | |
| 11 | 10.00 | 10.00 | |
| 12 | 1.00 | 10.00 | |
| 13 | 2.50 | 10.00 | |
| 14 | 1.00 | 10.00 | |
| 15 | 5.00 | 10.00 | |
| 16 | 5.00 | 10.00 | |
| 17 | 4.00 | 10.00 | |
| 18 | 8.00 | 10.00 | |
| 19 | 10.00 | 10.00 | |
| 20 | 10.00 | 10.00 | |
| 21 | 10.00 | 10.00 | |
| 22 | 10.00 | 10.00 | |
| 23 | 1.00 | 10.00 | |
| 24 | 1.50 | 10.00 | |
| 25 | 10.00 | 10.00 | |
| 26 | 1.50 | 10.00 | |
| 27 | 2.50 | 10.00 | |
| 28 | 10.00 | 10.00 | |
| 29 | 10.00 | 10.00 | |
| 30 | 10.00 | 10.00 | |
| 31 | 10.00 | 10.00 | |
| AVGS | 6.74 | 10.00 | |
| MINIMUM VISIBILITY (MILES) | | | |
| | <= .25 | <= 3.0 | >= 7.0 |
| | 0 | 9 | 19 |

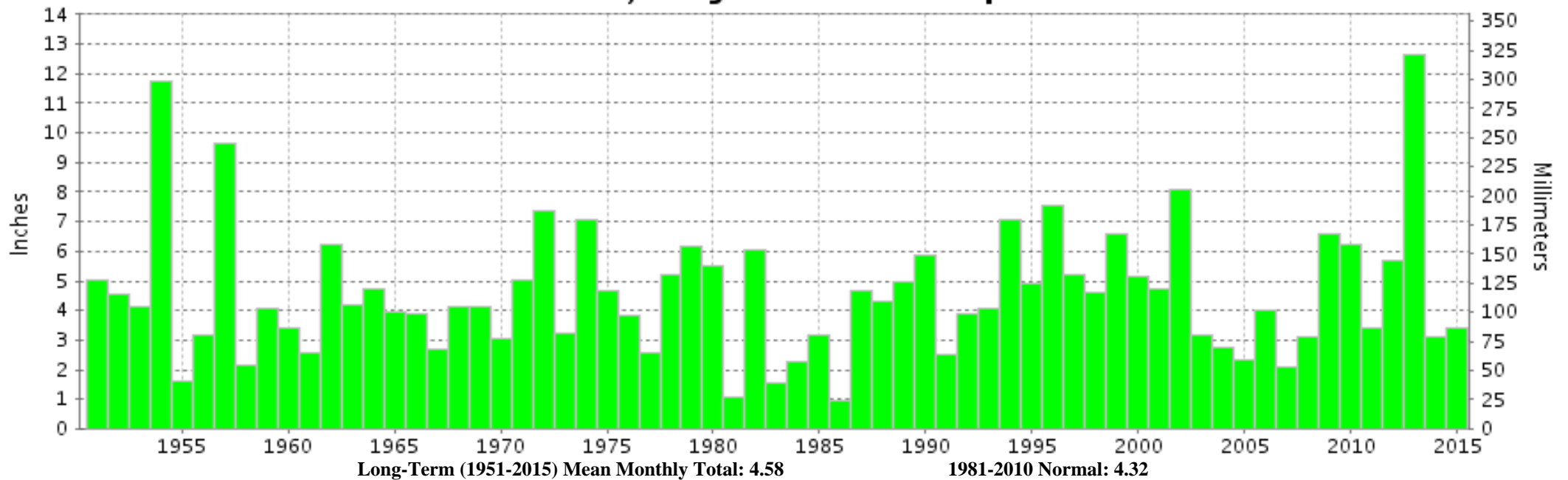
KNOXVILLE, TN JANUARY Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2015) Mean: 38.1
1981-2010 Normal: 38.2

KNOXVILLE, TN JANUARY Precipitation



Long-Term (1951-2015) Mean Monthly Total: 4.58

1981-2010 Normal: 4.32



**JANUARY 2015
KNOXVILLE, 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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