



**Monthly Station Normals  
of Temperature, Precipitation,  
and Heating and Cooling  
Degree Days  
1971 - 2000**



**40  
TENNESSEE**



**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE  
NATIONAL CLIMATIC DATA CENTER  
ASHEVILLE, NC**

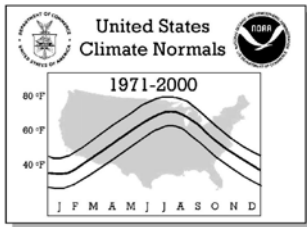


**CLIMATOGRAPHY OF THE UNITED STATES NO. 81**  
Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days  
**1971-2000**

**TENNESSEE**

Page 2

(This Page Intentionally Left Blank)



# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 3

#### NOTES

##### Product Description:

This Climatography includes 1971-2000 normals of monthly and annual maximum, minimum, and mean temperature (degrees F), monthly and annual total precipitation (inches), and heating and cooling degree days (base 65 degrees F). Normals stations include both National Weather Service Cooperative Network and Principal Observation (First-Order) locations in the 50 states, Puerto Rico, the Virgin Islands, and Pacific Islands.

##### Abbreviations:

**No.** = Station Number in State Map

**COOP ID** = Cooperative Network ID (1:2=State ID, 3:6=Station Index)

**WBAN ID** = Weather Bureau Army Navy ID, if assigned

**Elements** = Input Elements (X=Maximum Temperature, N=Minimum Temperature, P=Precipitation)

**Call** = 3-Letter Station Call Sign, if assigned

**MAX** = Normal Maximum Temperature (degrees Fahrenheit)

**MEAN** = Average of MAX and MIN (degrees Fahrenheit)

**MIN** = Normal Minimum Temperature (degrees Fahrenheit)

**HDD** = Total Heating Degree Days (base 65 degrees Fahrenheit)

**CDD** = Total Cooling Degree Days (base 65 degrees Fahrenheit)

**Latitude** = Latitude in degrees, minutes, and hemisphere (N=North, S=South)

**Longitude** = Longitude in degrees, minutes, and hemisphere (W=West, E=East)

**Elev** = Elevation in feet above mean sea level

**Flag 1** = \* if a published *Local Climatological Data* station

**Flag 2** = + if WMO Fully Qualified (see *Note* below)

**HIGHEST MEAN/YEAR** = Maximum Mean Monthly Value/Year, 1971-2000

**MEDIAN** = Median Mean Monthly Value/Year, 1971-2000

**LOWEST MEAN/YEAR** = Minimum Mean Monthly Value/Year, 1971-2000

**MAX OBS TIME ADJUSTMENT** = Add to MAX to Get Midnight Obs. Schedule

**MIN OBS TIME ADJUSTMENT** = Add to MIN to Get Midnight Obs. Schedule

*Note:* In 1989, the World Meteorological Organization (WMO) prescribed standards of data completeness for the 1961-1990 WMO Standard Normals. For full qualification, no more than three consecutive year-month values can be missing for a given month or no more than five overall values can be missing for a given month (out of 30 values). Stations meeting these standards are indicated with a '+' sign in Flag 2. Otherwise, stations are included in the normals if they have at least 10 year-month values for each month and have been active since January 1999 or were a previous normals station.

**Map Legend:** Numbers correspond to 'No.' in Station Inventory; Shaded Circles indicate Temperature and Precipitation Stations, Triangles (Point Up) indicate Precipitation-Only Stations, Triangles (Point Down) indicate Temperature-Only Stations, and Hexagons indicate stations with Flag 1 = \*.

##### Computational Procedures:

A climate normal is defined, by convention, as the arithmetic mean of a climatological element computed over three consecutive decades (WMO, 1989). Ideally, the data record for such a 30-year period should be free of any inconsistencies in observational practices (e.g., changes in station location, instrumentation, time of observation, etc.) and be serially complete (i.e., no missing values). When present, inconsistencies can lead to a non-climatic bias in one period of a station's record relative to another, yielding an "inhomogeneous" data record. Adjustments and estimations can make a climate record "homogeneous" and serially complete, and allow a climate normal to be calculated simply as the average of the 30 monthly values.

The methodology employed to generate the 1971-2000 normals is not the same as in previous normals, as it addresses inhomogeneity and missing data value problems using several steps. The technique developed by Karl *et al.* (1986) is used to adjust monthly maximum and minimum temperature observations of conterminous U.S. stations to a consistent midnight-to-midnight schedule. All monthly temperature averages and precipitation totals are cross-checked against archived daily observations to ensure internal consistency. Each monthly observation is evaluated using a modified quality control procedure (Peterson *et al.*, 1998), where station observation departures are computed, compared with neighboring stations, and then flagged and estimated where large differences with neighboring values exist. Missing or discarded temperature and precipitation observations are replaced using a weighting function derived from the observed relationship between a candidate's monthly observations and those of up to 20 neighboring stations whose observations are most strongly correlated with the candidate site. For temperature estimates, neighboring stations were selected from the U.S. Historical Climatology Network (USHCN; Karl *et al.* 1990). For precipitation estimates, all available stations were potential neighbors, maximizing station density for estimating the more spatially variable precipitation values.

Peterson and Easterling (1994) and Easterling and Peterson (1995) outline the method for adjusting temperature inhomogeneities. This technique involves comparing the record of the candidate station with a reference series generated from neighboring data. The reference series is reconstructed using a weighted average of first difference observations (the difference from one year to the next) for neighboring stations with the highest correlation with the candidate. The underlying assumption behind this methodology is that temperatures over a region have similar tendencies in variation. If this assumption is violated, the potential discontinuity is evaluated for statistical significance. Where significant discontinuities are detected, the difference in average annual temperatures before and after the inhomogeneity is applied to adjust the mean of the earlier block with the mean of the latter block of data. Such an evaluation requires a minimum of five years between discontinuities. Consequently, if multiple changes occur within five years or if a change occurs very near the end of the normals period (e.g., after 1995), the discontinuity may not be detectable using this methodology.

The monthly normals for maximum and minimum temperature and precipitation are computed simply by averaging the appropriate 30 values from the 1971-2000 record. The monthly average temperature normals are computed by averaging the corresponding monthly maximum and minimum normals. The annual temperature normals are calculated by taking the average of the 12 monthly normals. The annual precipitation and degree day normals are the sum of the 12 monthly normals. Trace precipitation totals are shown as zero. Precipitation totals include rain and the liquid equivalent of frozen and freezing precipitation (e.g., snow, sleet, freezing rain, and hail). For many NWS locations, indicated with an '\*' next to 'HDD' and 'CDD' in the degree day table, degree day normals are computed directly from daily values for the 1971-2000 period. For all other stations, estimated degree day totals are based on a modification of the rational conversion formula developed by Thom (1966), using daily spline-fit means and standard deviations of average temperature as inputs.

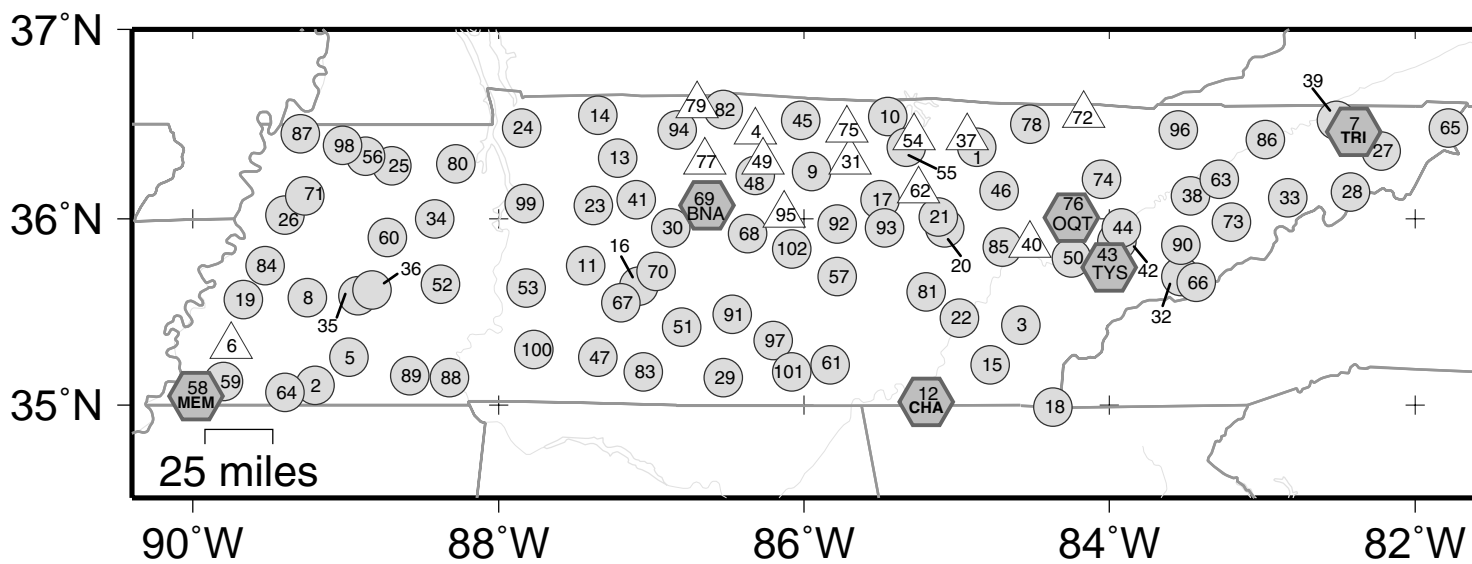
##### References:

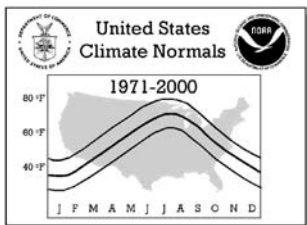
- Easterling, D.R., and T.C. Peterson, 1995: *A new method for detecting and adjusting for undocumented discontinuities in climatological time series*. *Intl. J. Clim.*, **15**, 369-377.
- Karl, T.R., C.N. Williams, Jr., P.J. Young, and W.M. Wendland, 1986: *A model to estimate the time of observation bias associated with monthly mean maximum, minimum, and mean temperatures for the United States*. *J. Clim. Appl. Met.*, **25**, 145-160.
- Peterson, T.C., and D.R. Easterling, 1994: *Creation of homogeneous composite climatological reference series*. *Intl. J. Clim.*, **14**, 671-679.
- Peterson, T.C., R. Vose, R. Schmoyer, and V. Razuvaev, 1998: *Global Historical Climatology Network (GHCN) quality control of monthly temperature data*. *Intl. J. Clim.*, **18**, 1169-1179.
- Thom, H.C.S., 1966: *Normal degree days above any base by the universal truncation coefficient*. *Month. Wea. Rev.*, **94**, 461-465.
- World Meteorological Organization, 1989: *Calculation of Monthly and Annual 30-Year Standard Normals*, WCDP-No. 10, WMO-TD/No. 341, Geneva: World Meteorological Organization.

**Release Date:** Revised 02/2002\*

**National Climatic Data Center/NESDIS/NOAA, Asheville, North Carolina**

## 40 - TENNESSEE





# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 5

| STATION INVENTORY |         |         |          |                          |      |          |           |      |        |        |
|-------------------|---------|---------|----------|--------------------------|------|----------|-----------|------|--------|--------|
| No.               | COOP ID | WBAN ID | Elements | Station Name             | Call | Latitude | Longitude | Elev | Flag 1 | Flag 2 |
| 1                 | 400081  |         | XNP      | ALLARDT                  |      | 36 23 N  | 84 53 W   | 1675 |        | +      |
| 2                 | 400137  |         | XNP      | AMES PLANTATION          |      | 35 07 N  | 89 13 W   | 460  |        |        |
| 3                 | 400284  |         | XNP      | ATHENS                   |      | 35 26 N  | 84 35 W   | 940  |        | +      |
| 4                 | 400669  |         | P        | BETHPAGE 1 S             |      | 36 28 N  | 86 20 W   | 560  |        | +      |
| 5                 | 400876  |         | XNP      | BOLIVAR WATERWORKS       |      | 35 16 N  | 88 59 W   | 455  |        | +      |
| 6                 | 400884  |         | P        | BOLTON                   |      | 35 19 N  | 89 45 W   | 300  |        |        |
| 7                 | 401094  | 13877   | XNP      | BRISTOL TRI CITY AP      | TRI  | 36 28 N  | 82 24 W   | 1500 | *      | +      |
| 8                 | 401145  |         | XNP      | BROWNSVILLE              |      | 35 35 N  | 89 15 W   | 330  |        | +      |
| 9                 | 401480  |         | XNP      | CARTHAGE                 |      | 36 15 N  | 85 57 W   | 515  |        |        |
| 10                | 401561  |         | XNP      | CELINA                   |      | 36 32 N  | 85 28 W   | 540  |        |        |
| 11                | 401587  |         | XNP      | CENTERVILLE WATER PL     |      | 35 45 N  | 87 26 W   | 660  |        | +      |
| 12                | 401656  | 13882   | XNP      | CHATTANOOGA AP           | CHA  | 35 02 N  | 85 12 W   | 671  | *      | +      |
| 13                | 401663  |         | XNP      | CHEATHAM LOCK AND DAM    |      | 36 19 N  | 87 13 W   | 392  |        | +      |
| 14                | 401790  |         | XNP      | CLARKSVILLE SEWAGE PLT   |      | 36 33 N  | 87 21 W   | 382  |        | +      |
| 15                | 401808  |         | XNP      | CLEVELAND FILTER PLANT   |      | 35 13 N  | 84 48 W   | 800  |        | +      |
| 16                | 401957  |         | XNP      | COLUMBIA 3 WNW           |      | 35 39 N  | 87 05 W   | 650  |        | +      |
| 17                | 402009  |         | XNP      | COOKEVILLE               |      | 36 06 N  | 85 30 W   | 1090 |        | +      |
| 18                | 402024  |         | XNP      | COPPERHILL               |      | 35 00 N  | 84 23 W   | 1450 |        | +      |
| 19                | 402108  |         | XNP      | COVINGTON 1 W            |      | 35 34 N  | 89 40 W   | 310  |        | +      |
| 20                | 402197  | 03847   | XNP      | CROSSVILLE AP            | CSV  | 35 57 N  | 85 05 W   | 1867 |        | +      |
| 21                | 402202  |         | XNP      | CROSSVILLE EXP STN       |      | 36 01 N  | 85 08 W   | 1810 |        | +      |
| 22                | 402360  |         | XNP      | DAYTON 2 SE              |      | 35 28 N  | 85 00 W   | 865  |        | +      |
| 23                | 402489  |         | XNP      | DICKSON                  |      | 36 04 N  | 87 23 W   | 780  |        | +      |
| 24                | 402589  |         | XNP      | DOVER 1 W                |      | 36 29 N  | 87 52 W   | 475  |        | +      |
| 25                | 402600  |         | XNP      | DRESDEN                  |      | 36 17 N  | 88 42 W   | 450  |        | +      |
| 26                | 402685  | 03809   | XNP      | DYERSBURG AP             | DYR  | 36 01 N  | 89 24 W   | 337  |        | +      |
| 27                | 402806  |         | XNP      | ELIZABETHTON             |      | 36 22 N  | 82 14 W   | 1755 |        |        |
| 28                | 402934  |         | XNP      | ERWIN 1 W                |      | 36 09 N  | 82 26 W   | 1720 |        |        |
| 29                | 403074  |         | XNP      | FAYETTEVILLE WATER PLANT |      | 35 09 N  | 86 32 W   | 725  |        | +      |
| 30                | 403280  |         | XNP      | FRANKLIN SEWAGE PLANT    |      | 35 57 N  | 86 52 W   | 655  |        | +      |
| 31                | 403370  |         | P        | GAINESBORO               |      | 36 18 N  | 85 42 W   | 487  |        | +      |
| 32                | 403420  |         | XNP      | GATLINBURG 2 SW          |      | 35 41 N  | 83 32 W   | 1454 |        | +      |
| 33                | 403679  |         | XNP      | GREENEVILLE EXP STN      |      | 36 06 N  | 82 51 W   | 1320 |        | +      |
| 34                | 404417  |         | XNP      | HUNTINGDON WATER PLANT   |      | 36 00 N  | 88 25 W   | 440  |        | +      |
| 35                | 404556  | 03811   | XNP      | JACKSON MCKELLAR-SPES AP | MKL  | 35 36 N  | 88 55 W   | 433  |        | +      |
| 36                | 404561  |         | XNP      | JACKSON EXP STA          |      | 35 37 N  | 88 50 W   | 400  |        | +      |
| 37                | 404590  |         | P        | JAMESTOWN                |      | 36 26 N  | 84 56 W   | 1690 |        | +      |
| 38                | 404613  |         | XNP      | JEFFERSON CITY           |      | 36 07 N  | 83 28 W   | 1108 |        |        |
| 39                | 404858  |         | XNP      | KINGSPORT                |      | 36 31 N  | 82 32 W   | 1284 |        | +      |
| 40                | 404871  |         | P        | KINGSTON                 |      | 35 51 N  | 84 32 W   | 730  |        | +      |
| 41                | 404876  |         | XNP      | KINGSTON SPRINGS         |      | 36 06 N  | 87 07 W   | 517  |        | +      |
| 42                | 404946  |         | XNP      | KNOXVILLE EXP STN        |      | 35 53 N  | 83 57 W   | 830  |        |        |
| 43                | 404950  | 13891   | XNP      | KNOXVILLE AP             | TYS  | 35 49 N  | 83 59 W   | 962  | *      | +      |
| 44                | 404955  |         | XNP      | KNOXVILLE UNIV OF TENN   |      | 35 57 N  | 83 55 W   | 895  |        |        |
| 45                | 404987  |         | XNP      | LAFAYETTE                |      | 36 31 N  | 86 02 W   | 975  |        | +      |
| 46                | 405040  |         | XNP      | LANCING 6 NW             |      | 36 09 N  | 84 44 W   | 1520 |        |        |
| 47                | 405089  |         | XNP      | LAWRENCEBURG FILTER PLT  |      | 35 16 N  | 87 21 W   | 870  |        | +      |
| 48                | 405108  |         | XNP      | LEBANON                  |      | 36 14 N  | 86 19 W   | 525  |        | +      |
| 49                | 405118  |         | P        | LEBANON 7 N              |      | 36 18 N  | 86 16 W   | 510  |        | +      |
| 50                | 405158  |         | XNP      | LENOIR CITY              |      | 35 47 N  | 84 16 W   | 785  |        | +      |
| 51                | 405187  |         | XNP      | LEWISBURG EXP STN        |      | 35 25 N  | 86 48 W   | 787  |        | +      |
| 52                | 405210  |         | XNP      | LEXINGTON                |      | 35 39 N  | 88 24 W   | 540  |        |        |
| 53                | 405278  |         | XNP      | LINDEN 2                 |      | 35 38 N  | 87 50 W   | 498  |        |        |
| 54                | 405327  |         | P        | LIVINGSTON 5 NE          |      | 36 26 N  | 85 17 W   | 960  |        |        |
| 55                | 405332  |         | XNP      | LIVINGSTON RADIO WLIV    |      | 36 23 N  | 85 20 W   | 975  |        | +      |
| 56                | 405681  |         | XNP      | MARTIN UNIV OF TENN BRA  |      | 36 20 N  | 88 52 W   | 340  |        | +      |
| 57                | 405882  |         | XNP      | MC MINNVILLE             |      | 35 41 N  | 85 48 W   | 940  |        | +      |
| 58                | 405954  | 13893   | XNP      | MEMPHIS INTL AP          | MEM  | 35 04 N  | 89 59 W   | 265  | *      | +      |
| 59                | 405956  | 53828   | XNP      | MEMPHIS WSFO             |      | 35 08 N  | 89 48 W   | 310  |        |        |
| 60                | 406012  |         | XNP      | MILAN EXP STN            |      | 35 54 N  | 88 44 W   | 426  |        | +      |
| 61                | 406162  | 93876   | XNP      | MONTEAGLE                | MGL  | 35 13 N  | 85 51 W   | 1850 |        | +      |
| 62                | 406170  |         | P        | MONTEREY                 |      | 36 09 N  | 85 16 W   | 1860 |        |        |
| 63                | 406271  |         | XNP      | MORRISTOWN RADIO WCRK    |      | 36 12 N  | 83 17 W   | 1360 |        |        |
| 64                | 406274  |         | XNP      | MOSCOW                   |      | 35 04 N  | 89 25 W   | 335  |        | +      |
| 65                | 406292  |         | XNP      | MOUNTAIN CITY 2          |      | 36 29 N  | 81 48 W   | 2510 |        |        |
| 66                | 406328  |         | XNP      | MT LECONTE               |      | 35 39 N  | 83 26 W   | 6493 |        |        |
| 67                | 406340  |         | XNP      | MOUNT PLEASANT 1 N       |      | 35 33 N  | 87 12 W   | 778  |        |        |
| 68                | 406371  |         | XNP      | MURFREESBORO 5 N         |      | 35 55 N  | 86 23 W   | 550  |        | +      |
| 69                | 406402  | 13897   | XNP      | NASHVILLE INTL AP        | BNA  | 36 07 N  | 86 41 W   | 580  | *      | +      |
| 70                | 406435  |         | XNP      | NEAPOLIS EXP STN         |      | 35 43 N  | 86 59 W   | 700  |        |        |



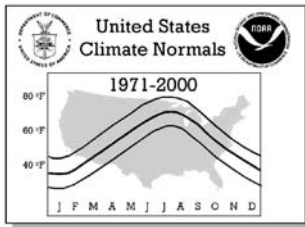
# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 6

| STATION INVENTORY |         |         |          |                        |      |          |           |      |        |        |   |
|-------------------|---------|---------|----------|------------------------|------|----------|-----------|------|--------|--------|---|
| No.               | COOP ID | WBAN ID | Elements | Station Name           | Call | Latitude | Longitude | Elev | Flag 1 | Flag 2 |   |
| 71                | 406471  |         | XNP      | NEWBERN                |      | 36 07 N  | 89 16 W   | 371  |        |        |   |
| 72                | 406493  |         | P        | NEWCOMB                |      | 36 33 N  | 84 10 W   | 985  |        |        | + |
| 73                | 406534  |         | XNP      | NEWPORT 1 NW           |      | 35 59 N  | 83 12 W   | 1036 |        |        | + |
| 74                | 406619  |         | XNP      | NORRIS                 |      | 36 13 N  | 84 04 W   | 1110 |        |        | + |
| 75                | 406666  |         | P        | NORTH SPRINGS 4NW      |      | 36 28 N  | 85 43 W   | 570  |        |        |   |
| 76                | 406750  | 03841   | XNP      | OAK RIDGE ATDD         | OQT  | 36 01 N  | 84 14 W   | 905  | *      |        | + |
| 77                | 406803  |         | P        | OLD HICKORY DAM        |      | 36 18 N  | 86 39 W   | 460  |        |        | + |
| 78                | 406829  |         | XNP      | ONEIDA                 |      | 36 30 N  | 84 32 W   | 1440 |        |        | + |
| 79                | 406861  |         | P        | ORLINDA                |      | 36 36 N  | 86 42 W   | 700  |        |        | + |
| 80                | 406977  |         | XNP      | PARIS 2 SE             |      | 36 17 N  | 88 18 W   | 443  |        |        | + |
| 81                | 407184  |         | XNP      | PIKEVILLE              |      | 35 37 N  | 85 12 W   | 878  |        |        | + |
| 82                | 407359  |         | XNP      | PORTLAND SEWAGE PLANT  |      | 36 35 N  | 86 32 W   | 794  |        |        | + |
| 83                | 407459  |         | XNP      | PULASKI WATER PLANT    |      | 35 11 N  | 87 03 W   | 634  |        |        | + |
| 84                | 407710  |         | XNP      | RIPLEY                 |      | 35 45 N  | 89 32 W   | 335  |        |        | + |
| 85                | 407834  |         | XNP      | ROCKWOOD 2             |      | 35 51 N  | 84 42 W   | 860  |        |        | + |
| 86                | 407884  |         | XNP      | ROGERSVILLE 1 NE       |      | 36 25 N  | 82 59 W   | 1355 |        |        | + |
| 87                | 408065  |         | XNP      | SAMBURG WILDLIFE REF   |      | 36 27 N  | 89 18 W   | 310  |        |        |   |
| 88                | 408108  |         | XNP      | SAVANNAH 6 SW          |      | 35 09 N  | 88 19 W   | 420  |        |        | + |
| 89                | 408160  |         | XNP      | SELMER                 |      | 35 10 N  | 88 36 W   | 470  |        |        | + |
| 90                | 408179  |         | XNP      | SEVIERVILLE 1 SE       |      | 35 52 N  | 83 33 W   | 930  |        |        | + |
| 91                | 408246  |         | XNP      | SHELBYVILLE WATER DEPT |      | 35 30 N  | 86 29 W   | 760  |        |        | + |
| 92                | 408405  |         | XNP      | SMITHVILLE 2 SE        |      | 35 58 N  | 85 48 W   | 890  |        |        | + |
| 93                | 408522  |         | XNP      | SPARTA                 |      | 35 57 N  | 85 29 W   | 1020 |        |        | + |
| 94                | 408562  |         | XNP      | SPRINGFIELD EXP STN    |      | 36 28 N  | 86 51 W   | 745  |        |        | + |
| 95                | 408609  |         | P        | STATESVILLE            |      | 36 01 N  | 86 08 W   | 723  |        |        | + |
| 96                | 408868  |         | XNP      | TAZEWELL               |      | 36 28 N  | 83 34 W   | 1365 |        |        | + |
| 97                | 409155  |         | XNP      | TULLAHOMA              |      | 35 21 N  | 86 13 W   | 1022 |        |        | + |
| 98                | 409219  |         | XNP      | UNION CITY             |      | 36 24 N  | 89 02 W   | 350  |        |        | + |
| 99                | 409492  |         | XNP      | WAVERLY                |      | 36 05 N  | 87 50 W   | 540  |        |        |   |
| 100               | 409502  |         | XNP      | WAYNESBORO             |      | 35 18 N  | 87 46 W   | 750  |        |        | + |
| 101               | 409800  |         | XNP      | WINCHESTER 1 E         |      | 35 11 N  | 86 06 W   | 940  |        |        |   |
| 102               | 409866  |         | XNP      | WOODBURY 1 WNW         |      | 35 51 N  | 86 05 W   | 750  |        |        | + |



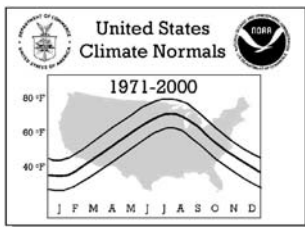
# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 7

| No. | Station Name           | Element | TEMPERATURE NORMALS (Degrees Fahrenheit) |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|------------------------|---------|--|------|------|------|------|------|------|------|------|------|------|------|--------|
|     |                        |         | JAN                                      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 001 | ALLARDT                | MAX     | 43.6                                     | 48.6 | 57.5 | 66.8 | 73.9 | 80.6 | 83.8 | 82.9 | 77.1 | 67.4 | 56.5 | 47.2 | 65.5   |
|     |                        | MEAN    | 34.5                                     | 38.5 | 46.5 | 54.8 | 62.5 | 69.8 | 73.5 | 72.2 | 66.3 | 55.8 | 46.4 | 38.1 | 54.9   |
|     |                        | MIN     | 25.4                                     | 28.3 | 35.5 | 42.8 | 51.0 | 58.9 | 63.1 | 61.4 | 55.4 | 44.2 | 36.3 | 29.0 | 44.3   |
| 002 | AMES PLANTATION        | MAX     | 47.3                                     | 52.8 | 61.9 | 71.1 | 78.9 | 86.8 | 90.5 | 89.7 | 83.9 | 73.9 | 61.3 | 51.3 | 70.8   |
|     |                        | MEAN    | 37.3                                     | 41.6 | 50.5 | 59.3 | 67.7 | 75.6 | 79.5 | 78.0 | 71.8 | 60.7 | 50.1 | 41.1 | 59.4   |
|     |                        | MIN     | 27.3                                     | 30.4 | 39.1 | 47.4 | 56.5 | 64.4 | 68.5 | 66.3 | 59.6 | 47.4 | 38.8 | 30.9 | 48.1   |
| 003 | ATHENS                 | MAX     | 46.7                                     | 51.7 | 60.7 | 69.9 | 77.3 | 84.5 | 87.9 | 87.1 | 81.5 | 71.3 | 60.2 | 50.3 | 69.1   |
|     |                        | MEAN    | 36.5                                     | 40.2 | 48.4 | 56.6 | 64.9 | 72.9 | 76.9 | 75.9 | 69.9 | 58.0 | 48.2 | 39.7 | 57.3   |
|     |                        | MIN     | 26.2                                     | 28.6 | 36.0 | 43.2 | 52.4 | 61.2 | 65.8 | 64.7 | 58.2 | 44.7 | 36.2 | 29.1 | 45.5   |
| 005 | BOLIVAR WATERWORKS     | MAX     | 47.3                                     | 52.8 | 61.9 | 71.2 | 78.7 | 86.3 | 89.9 | 89.1 | 83.2 | 73.3 | 61.3 | 51.0 | 70.5   |
|     |                        | MEAN    | 37.3                                     | 41.7 | 50.5 | 59.5 | 67.7 | 75.7 | 79.6 | 78.0 | 71.4 | 60.1 | 49.8 | 41.0 | 59.4   |
|     |                        | MIN     | 27.3                                     | 30.6 | 39.1 | 47.7 | 56.6 | 65.1 | 69.2 | 66.9 | 59.6 | 46.9 | 38.3 | 31.0 | 48.2   |
| 007 | BRISTOL TRI CITY AP    | MAX     | 44.1                                     | 48.9 | 58.4 | 67.1 | 74.9 | 81.8 | 84.8 | 83.9 | 78.5 | 68.2 | 57.4 | 47.8 | 66.3   |
|     |                        | MEAN    | 34.2                                     | 38.0 | 46.5 | 54.6 | 63.0 | 70.7 | 74.2 | 72.8 | 66.6 | 55.0 | 45.5 | 37.3 | 54.9   |
|     |                        | MIN     | 24.3                                     | 27.0 | 34.6 | 42.0 | 51.0 | 59.5 | 63.5 | 61.7 | 54.7 | 41.8 | 33.6 | 26.8 | 43.4   |
| 008 | BROWNSVILLE            | MAX     | 46.0                                     | 52.0 | 61.2 | 71.0 | 79.0 | 86.8 | 90.3 | 89.3 | 83.3 | 73.3 | 60.5 | 50.2 | 70.2   |
|     |                        | MEAN    | 37.2                                     | 42.1 | 51.1 | 60.2 | 68.9 | 77.0 | 80.6 | 78.9 | 72.3 | 61.0 | 50.4 | 41.1 | 60.1   |
|     |                        | MIN     | 28.3                                     | 32.1 | 40.9 | 49.3 | 58.8 | 67.1 | 70.8 | 68.5 | 61.2 | 48.7 | 40.2 | 31.9 | 49.8   |
| 009 | CARTHAGE               | MAX     | 45.5                                     | 50.5 | 60.0 | 69.1 | 76.7 | 84.4 | 88.3 | 87.4 | 82.0 | 72.0 | 60.2 | 49.9 | 68.8   |
|     |                        | MEAN    | 35.4                                     | 39.1 | 47.8 | 56.4 | 64.8 | 73.2 | 77.5 | 76.5 | 70.3 | 58.4 | 48.2 | 39.4 | 57.3   |
|     |                        | MIN     | 25.2                                     | 27.6 | 35.6 | 43.6 | 52.9 | 62.0 | 66.7 | 65.6 | 58.6 | 44.8 | 36.2 | 28.8 | 45.6   |
| 010 | CELINA                 | MAX     | 45.7                                     | 51.3 | 60.9 | 70.0 | 77.9 | 85.6 | 89.2 | 88.4 | 82.4 | 73.0 | 60.9 | 50.3 | 69.6   |
|     |                        | MEAN    | 35.1                                     | 39.1 | 47.4 | 55.5 | 64.3 | 72.9 | 76.7 | 75.4 | 68.9 | 57.9 | 47.8 | 39.0 | 56.7   |
|     |                        | MIN     | 24.4                                     | 26.9 | 33.9 | 40.9 | 50.6 | 60.1 | 64.2 | 62.4 | 55.3 | 42.7 | 34.7 | 27.7 | 43.7   |
| 011 | CENTERVILLE WATER PL   | MAX     | 48.4                                     | 54.8 | 64.8 | 74.5 | 80.3 | 86.3 | 89.4 | 88.7 | 82.9 | 73.4 | 61.4 | 51.6 | 71.4   |
|     |                        | MEAN    | 37.4                                     | 41.8 | 50.8 | 59.2 | 67.0 | 74.2 | 77.8 | 76.6 | 70.3 | 59.3 | 49.2 | 40.7 | 58.7   |
|     |                        | MIN     | 26.4                                     | 28.8 | 36.7 | 43.9 | 53.6 | 62.0 | 66.2 | 64.5 | 57.6 | 45.1 | 36.9 | 29.7 | 46.0   |
| 012 | CHATTANOOGA AP         | MAX     | 48.8                                     | 54.1 | 62.8 | 72.1 | 79.1 | 86.2 | 89.8 | 88.7 | 82.5 | 72.3 | 61.1 | 52.0 | 70.8   |
|     |                        | MEAN    | 39.4                                     | 43.4 | 51.4 | 59.6 | 67.7 | 75.4 | 79.6 | 78.5 | 72.1 | 60.4 | 50.3 | 42.4 | 60.0   |
|     |                        | MIN     | 29.9                                     | 32.6 | 40.0 | 47.0 | 56.2 | 64.6 | 69.4 | 68.3 | 61.7 | 48.5 | 39.5 | 32.7 | 49.2   |
| 013 | CHEATHAM LOCK AND DAM  | MAX     | 45.8                                     | 51.4 | 61.7 | 70.0 | 77.9 | 85.8 | 90.2 | 89.3 | 82.8 | 71.8 | 60.1 | 50.5 | 69.8   |
|     |                        | MEAN    | 34.2                                     | 38.0 | 47.2 | 55.0 | 63.8 | 72.4 | 77.3 | 76.0 | 69.0 | 57.3 | 46.8 | 38.4 | 56.3   |
|     |                        | MIN     | 22.5                                     | 24.5 | 32.6 | 39.9 | 49.7 | 59.0 | 64.3 | 62.6 | 55.2 | 42.7 | 33.4 | 26.3 | 42.7   |
| 014 | CLARKSVILLE SEWAGE PLT | MAX     | 45.4                                     | 51.1 | 61.2 | 71.0 | 78.7 | 86.4 | 90.4 | 89.1 | 82.9 | 72.2 | 60.1 | 49.4 | 69.8   |
|     |                        | MEAN    | 35.2                                     | 39.9 | 48.8 | 57.7 | 66.3 | 74.7 | 79.0 | 77.3 | 70.6 | 58.7 | 48.2 | 39.2 | 58.0   |
|     |                        | MIN     | 25.0                                     | 28.6 | 36.4 | 44.4 | 53.8 | 62.9 | 67.5 | 65.4 | 58.2 | 45.2 | 36.2 | 28.9 | 46.0   |
| 015 | CLEVELAND FILTER PLANT | MAX     | 48.2                                     | 53.6 | 62.1 | 71.0 | 78.0 | 85.1 | 88.5 | 87.6 | 81.5 | 71.6 | 60.6 | 51.4 | 69.9   |
|     |                        | MEAN    | 38.0                                     | 42.0 | 49.8 | 57.6 | 65.6 | 73.5 | 77.5 | 76.4 | 70.1 | 58.6 | 48.6 | 41.0 | 58.2   |
|     |                        | MIN     | 27.7                                     | 30.4 | 37.4 | 44.2 | 53.2 | 61.9 | 66.4 | 65.2 | 58.6 | 45.5 | 36.6 | 30.5 | 46.5   |
| 016 | COLUMBIA 3 WNW         | MAX     | 46.1                                     | 51.4 | 60.3 | 69.4 | 77.1 | 84.8 | 88.5 | 88.1 | 81.8 | 71.5 | 60.1 | 50.1 | 69.1   |
|     |                        | MEAN    | 35.6                                     | 39.7 | 47.5 | 56.0 | 64.5 | 72.8 | 77.2 | 76.1 | 69.3 | 57.7 | 47.6 | 39.4 | 57.0   |
|     |                        | MIN     | 25.0                                     | 27.9 | 34.6 | 42.6 | 51.9 | 60.7 | 65.8 | 64.1 | 56.8 | 43.8 | 35.1 | 28.6 | 44.7   |
| 017 | COOKEVILLE             | MAX     | 45.7                                     | 50.3 | 59.6 | 68.7 | 76.6 | 84.1 | 87.7 | 87.0 | 81.3 | 71.1 | 59.7 | 49.7 | 68.5   |
|     |                        | MEAN    | 35.5                                     | 38.8 | 47.4 | 55.7 | 64.3 | 72.5 | 76.5 | 75.2 | 68.8 | 57.5 | 47.8 | 39.2 | 56.6   |
|     |                        | MIN     | 25.3                                     | 27.3 | 35.2 | 42.7 | 51.9 | 60.8 | 65.2 | 63.3 | 56.3 | 43.8 | 35.9 | 28.6 | 44.7   |
| 018 | COPPERHILL             | MAX     | 49.0                                     | 53.6 | 61.5 | 70.6 | 77.7 | 84.0 | 87.5 | 86.6 | 81.1 | 72.0 | 61.8 | 52.7 | 69.8   |
|     |                        | MEAN    | 37.7                                     | 41.0 | 48.1 | 55.8 | 63.9 | 71.2 | 75.6 | 74.6 | 68.5 | 57.4 | 48.7 | 40.8 | 56.9   |
|     |                        | MIN     | 26.4                                     | 28.3 | 34.7 | 41.0 | 50.0 | 58.4 | 63.6 | 62.5 | 55.8 | 42.8 | 35.6 | 28.9 | 44.0   |
| 019 | COVINGTON 1 W          | MAX     | 45.9                                     | 51.5 | 61.0 | 71.0 | 79.8 | 88.0 | 91.4 | 89.8 | 83.6 | 73.6 | 60.5 | 50.2 | 70.5   |
|     |                        | MEAN    | 36.9                                     | 41.5 | 50.6 | 59.8 | 68.8 | 77.1 | 80.6 | 78.6 | 71.9 | 61.1 | 50.2 | 40.9 | 59.8   |
|     |                        | MIN     | 27.9                                     | 31.5 | 40.1 | 48.6 | 57.7 | 66.1 | 69.8 | 67.3 | 60.1 | 48.5 | 39.9 | 31.5 | 49.1   |
| 020 | CROSSVILLE AP          | MAX     | 43.9                                     | 48.7 | 57.4 | 66.4 | 73.8 | 80.7 | 84.0 | 83.2 | 77.3 | 67.5 | 56.6 | 47.6 | 65.6   |
|     |                        | MEAN    | 35.1                                     | 39.1 | 47.1 | 55.2 | 63.0 | 70.4 | 74.4 | 73.2 | 67.1 | 56.2 | 46.9 | 38.8 | 55.5   |
|     |                        | MIN     | 26.3                                     | 29.4 | 36.7 | 44.0 | 52.2 | 60.1 | 64.7 | 63.2 | 56.8 | 44.8 | 37.1 | 30.0 | 45.4   |
| 021 | CROSSVILLE EXP STN     | MAX     | 42.6                                     | 47.3 | 56.1 | 65.2 | 73.3 | 80.4 | 84.1 | 83.2 | 77.4 | 67.5 | 56.3 | 46.6 | 65.0   |
|     |                        | MEAN    | 32.6                                     | 36.5 | 45.1 | 53.6 | 61.9 | 69.3 | 73.2 | 71.8 | 65.8 | 54.9 | 45.6 | 36.6 | 53.9   |
|     |                        | MIN     | 22.6                                     | 25.7 | 34.1 | 42.0 | 50.5 | 58.1 | 62.2 | 60.4 | 54.1 | 42.3 | 34.8 | 26.5 | 42.8   |
| 022 | DAYTON 2 SE            | MAX     | 45.9                                     | 51.6 | 60.8 | 70.3 | 77.3 | 84.7 | 87.7 | 86.9 | 81.0 | 70.4 | 58.8 | 49.0 | 68.7   |
|     |                        | MEAN    | 36.2                                     | 40.5 | 48.8 | 57.4 | 65.4 | 73.3 | 76.9 | 76.0 | 70.1 | 58.3 | 48.1 | 39.3 | 57.5   |
|     |                        | MIN     | 26.5                                     | 29.3 | 36.7 | 44.4 | 53.5 | 61.8 | 66.1 | 65.0 | 59.1 | 46.1 | 37.3 | 29.6 | 46.3   |
| 023 | DICKSON                | MAX     | 45.1                                     | 50.9 | 60.7 | 70.3 | 77.0 | 83.9 | 87.4 | 86.8 | 80.8 | 70.8 | 59.2 | 49.4 | 68.5   |
|     |                        | MEAN    | 35.7                                     | 40.3 | 49.1 | 57.7 | 65.7 | 73.3 | 77.2 | 76.1 | 69.8 | 58.7 | 48.4 | 39.6 | 57.6   |
|     |                        | MIN     | 26.3                                     | 29.6 | 37.4 | 45.1 | 54.3 | 62.6 | 66.9 | 65.3 | 58.8 | 46.5 | 37.6 | 29.8 | 46.7   |
| 024 | DOVER 1 W              | MAX     | 43.9                                     | 49.7 | 60.0 | 69.8 | 77.2 | 84.6 | 88.5 | 87.6 | 81.5 | 70.9 | 58.8 | 48.3 | 68.4   |
|     |                        | MEAN    | 34.2                                     | 38.7 | 48.4 | 57.6 | 65.7 | 73.8 | 77.8 | 76.3 | 69.5 | 57.8 | 48.0 | 38.3 | 57.2   |
|     |                        | MIN     | 24.4                                     | 27.6 | 36.8 | 45.3 | 54.1 | 62.9 | 67.0 | 64.9 | 57.4 | 44.7 | 37.1 | 28.3 | 45.9   |
| 025 | DRESDEN                | MAX     | 43.8                                     | 49.8 | 59.7 | 69.7 | 77.9 | 85.9 | 89.3 | 88.4 | 82.5 | 71.9 | 59.2 | 48.3 | 68.9   |
|     |                        | MEAN    | 34.4                                     | 39.3 | 48.8 | 58.1 | 66.8 | 75.1 | 78.7 | 77.1 | 70.7 | 59.2 | 48.6 | 38.7 | 58.0   |
|     |                        | MIN     | 25.0                                     | 28.7 | 37.8 | 46.4 | 55.7 | 64.2 | 68.0 | 65.8 | 58.9 | 46.5 | 37.9 | 29.0 | 47.0   |



# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

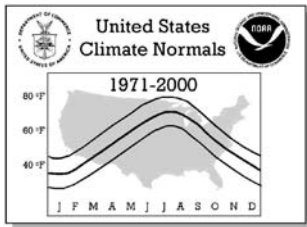
## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 8

|     |                         |         | TEMPERATURE NORMALS (Degrees Fahrenheit) |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|-------------------------|---------|--|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name            | Element | JAN                                      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 026 | DYERSBURG AP            | MAX     | 45.9                                     | 52.3 | 61.9 | 71.4 | 79.9 | 87.7 | 90.6 | 89.3 | 83.1 | 73.1 | 60.0 | 49.5 | 70.4   |
|     |                         | MEAN    | 38.4                                     | 43.6 | 52.6 | 61.4 | 70.2 | 78.0 | 81.2 | 79.5 | 72.7 | 62.3 | 51.4 | 42.0 | 61.1   |
|     |                         | MIN     | 30.8                                     | 34.9 | 43.3 | 51.4 | 60.4 | 68.2 | 71.7 | 69.6 | 62.3 | 51.5 | 42.7 | 34.4 | 51.8   |
| 027 | ELIZABETHTON            | MAX     | 44.2                                     | 48.4 | 57.2 | 66.3 | 74.4 | 81.4 | 84.8 | 83.8 | 78.6 | 68.3 | 57.9 | 47.9 | 66.1   |
|     |                         | MEAN    | 34.5                                     | 37.7 | 45.6 | 53.7 | 62.7 | 70.5 | 74.3 | 73.0 | 67.3 | 55.9 | 46.4 | 37.7 | 54.9   |
|     |                         | MIN     | 24.7                                     | 27.0 | 33.9 | 41.1 | 51.0 | 59.5 | 63.7 | 62.1 | 56.0 | 43.5 | 34.8 | 27.5 | 43.7   |
| 028 | ERWIN 1 W               | MAX     | 46.1                                     | 51.1 | 59.6 | 68.0 | 75.5 | 82.8 | 85.8 | 85.0 | 79.7 | 69.6 | 59.6 | 50.2 | 67.8   |
|     |                         | MEAN    | 35.5                                     | 39.2 | 47.1 | 54.7 | 62.7 | 70.6 | 74.2 | 73.3 | 67.6 | 56.3 | 47.2 | 39.1 | 55.6   |
|     |                         | MIN     | 24.9                                     | 27.3 | 34.5 | 41.3 | 49.8 | 58.4 | 62.6 | 61.6 | 55.4 | 42.9 | 34.7 | 27.9 | 43.4   |
| 029 | FAYETTEVILLE WATER PLAN | MAX     | 48.5                                     | 54.2 | 62.9 | 72.0 | 79.4 | 86.5 | 89.6 | 89.3 | 83.2 | 73.1 | 62.0 | 52.1 | 71.1   |
|     |                         | MEAN    | 38.5                                     | 42.9 | 50.6 | 58.2 | 66.6 | 74.1 | 77.7 | 76.7 | 70.4 | 59.1 | 49.6 | 41.6 | 58.8   |
|     |                         | MIN     | 28.5                                     | 31.6 | 38.3 | 44.4 | 53.7 | 61.6 | 65.8 | 64.1 | 57.6 | 45.1 | 37.1 | 31.1 | 46.6   |
| 030 | FRANKLIN SEWAGE PLANT   | MAX     | 45.0                                     | 50.6 | 60.1 | 69.3 | 77.1 | 84.8 | 88.9 | 87.8 | 81.7 | 71.3 | 59.1 | 49.2 | 68.7   |
|     |                         | MEAN    | 35.1                                     | 39.2 | 47.9 | 56.3 | 65.0 | 73.2 | 77.4 | 75.9 | 69.3 | 57.8 | 47.5 | 39.0 | 57.0   |
|     |                         | MIN     | 25.2                                     | 27.7 | 35.7 | 43.3 | 52.8 | 61.5 | 65.9 | 64.0 | 56.9 | 44.2 | 35.9 | 28.8 | 45.2   |
| 032 | GATLINBURG 2 SW         | MAX     | 47.6                                     | 52.0 | 60.9 | 69.4 | 76.0 | 82.1 | 84.8 | 83.7 | 78.6 | 69.7 | 60.3 | 51.0 | 68.0   |
|     |                         | MEAN    | 36.3                                     | 39.2 | 47.0 | 54.4 | 62.3 | 69.6 | 73.3 | 72.0 | 66.4 | 55.7 | 46.8 | 39.3 | 55.2   |
|     |                         | MIN     | 24.9                                     | 26.3 | 33.0 | 39.4 | 48.6 | 57.0 | 61.7 | 60.2 | 54.2 | 41.6 | 33.2 | 27.5 | 42.3   |
| 033 | GREENEVILLE EXP STN     | MAX     | 46.4                                     | 51.1 | 59.9 | 68.6 | 76.7 | 83.6 | 87.1 | 86.2 | 81.0 | 70.6 | 60.1 | 50.4 | 68.5   |
|     |                         | MEAN    | 33.4                                     | 36.8 | 44.5 | 52.1 | 61.1 | 69.3 | 73.5 | 72.0 | 65.7 | 53.7 | 44.4 | 36.4 | 53.6   |
|     |                         | MIN     | 20.4                                     | 22.5 | 29.0 | 35.6 | 45.4 | 54.9 | 59.9 | 57.8 | 50.3 | 36.7 | 28.6 | 22.3 | 38.6   |
| 034 | HUNTINGDON WATER PLANT  | MAX     | 42.6                                     | 48.5 | 58.0 | 67.9 | 76.1 | 84.0 | 87.6 | 86.7 | 80.5 | 69.6 | 56.9 | 46.6 | 67.1   |
|     |                         | MEAN    | 33.2                                     | 37.6 | 46.6 | 55.8 | 64.5 | 72.9 | 76.7 | 75.0 | 68.1 | 56.2 | 45.8 | 36.8 | 55.8   |
|     |                         | MIN     | 23.7                                     | 26.6 | 35.2 | 43.6 | 52.9 | 61.7 | 65.8 | 63.3 | 55.6 | 42.7 | 34.6 | 26.9 | 44.4   |
| 035 | JACKSON MCKELLAR-SPES A | MAX     | 46.9                                     | 52.7 | 62.0 | 71.6 | 79.5 | 87.3 | 90.8 | 90.0 | 83.6 | 73.4 | 60.7 | 50.8 | 70.8   |
|     |                         | MEAN    | 37.8                                     | 42.6 | 51.3 | 60.1 | 68.6 | 76.7 | 80.3 | 78.8 | 72.1 | 61.1 | 50.3 | 41.5 | 60.1   |
|     |                         | MIN     | 28.7                                     | 32.5 | 40.6 | 48.6 | 57.7 | 66.0 | 69.7 | 67.5 | 60.6 | 48.7 | 39.9 | 32.1 | 49.4   |
| 036 | JACKSON EXP STA         | MAX     | 46.0                                     | 51.5 | 61.0 | 70.5 | 78.0 | 85.8 | 89.4 | 88.7 | 82.9 | 72.8 | 60.5 | 50.3 | 69.8   |
|     |                         | MEAN    | 37.1                                     | 41.6 | 50.8 | 59.4 | 67.8 | 75.7 | 79.6 | 78.3 | 71.8 | 60.5 | 50.0 | 40.9 | 59.5   |
|     |                         | MIN     | 28.2                                     | 31.7 | 40.5 | 48.2 | 57.6 | 65.6 | 69.8 | 67.8 | 60.7 | 48.1 | 39.5 | 31.4 | 49.1   |
| 038 | JEFFERSON CITY          | MAX     | 44.8                                     | 50.4 | 59.3 | 67.6 | 76.0 | 82.7 | 86.4 | 85.1 | 80.2 | 69.5 | 58.8 | 48.8 | 67.5   |
|     |                         | MEAN    | 34.7                                     | 39.1 | 47.1 | 55.5 | 64.9 | 72.3 | 76.2 | 74.5 | 68.4 | 56.3 | 47.0 | 38.3 | 56.2   |
|     |                         | MIN     | 24.6                                     | 27.7 | 34.8 | 43.3 | 53.8 | 61.8 | 65.9 | 63.9 | 56.6 | 43.0 | 35.2 | 27.8 | 44.9   |
| 039 | KINGSPORT               | MAX     | 44.9                                     | 50.2 | 59.7 | 69.1 | 77.0 | 83.6 | 86.9 | 85.7 | 80.3 | 70.0 | 58.9 | 48.7 | 67.9   |
|     |                         | MEAN    | 35.6                                     | 39.1 | 47.4 | 56.0 | 65.0 | 72.4 | 76.2 | 74.7 | 68.9 | 57.3 | 47.5 | 39.0 | 56.6   |
|     |                         | MIN     | 26.2                                     | 28.0 | 35.1 | 42.9 | 53.0 | 61.2 | 65.5 | 63.7 | 57.5 | 44.6 | 36.0 | 29.2 | 45.2   |
| 041 | KINGSTON SPRINGS        | MAX     | 45.5                                     | 51.2 | 60.8 | 70.3 | 77.6 | 85.0 | 88.7 | 88.2 | 82.2 | 72.1 | 60.3 | 49.9 | 69.3   |
|     |                         | MEAN    | 34.6                                     | 38.7 | 47.8 | 56.2 | 64.7 | 73.0 | 77.1 | 75.9 | 69.0 | 57.3 | 47.4 | 38.6 | 56.7   |
|     |                         | MIN     | 23.7                                     | 26.1 | 34.7 | 42.1 | 51.8 | 61.0 | 65.4 | 63.5 | 55.8 | 42.5 | 34.5 | 27.3 | 44.0   |
| 042 | KNOXVILLE EXP STN       | MAX     | 46.1                                     | 51.3 | 60.6 | 69.3 | 77.0 | 84.1 | 87.7 | 87.0 | 81.7 | 70.9 | 59.8 | 49.9 | 68.8   |
|     |                         | MEAN    | 36.2                                     | 39.9 | 48.4 | 56.4 | 65.1 | 73.2 | 77.3 | 76.2 | 70.2 | 58.0 | 48.1 | 39.6 | 57.4   |
|     |                         | MIN     | 26.2                                     | 28.4 | 36.2 | 43.4 | 53.2 | 62.2 | 66.9 | 65.3 | 58.6 | 45.0 | 36.4 | 29.3 | 45.9   |
| 043 | KNOXVILLE AP            | MAX     | 46.3                                     | 51.7 | 60.3 | 69.0 | 76.3 | 83.6 | 86.9 | 86.4 | 80.7 | 69.9 | 59.0 | 49.8 | 68.3   |
|     |                         | MEAN    | 37.6                                     | 41.8 | 49.7 | 57.8 | 66.0 | 73.8 | 77.7 | 76.9 | 70.8 | 58.8 | 49.0 | 40.9 | 58.4   |
|     |                         | MIN     | 28.9                                     | 31.8 | 39.1 | 46.6 | 55.6 | 63.9 | 68.5 | 67.3 | 60.8 | 47.7 | 38.9 | 31.9 | 48.4   |
| 044 | KNOXVILLE UNIV OF TENN  | MAX     | 46.6                                     | 51.6 | 61.1 | 70.5 | 77.8 | 84.7 | 88.2 | 87.0 | 81.2 | 70.9 | 60.1 | 50.3 | 69.2   |
|     |                         | MEAN    | 38.5                                     | 42.1 | 50.6 | 59.3 | 67.3 | 74.7 | 78.7 | 77.7 | 71.7 | 60.2 | 50.7 | 42.0 | 59.5   |
|     |                         | MIN     | 30.3                                     | 32.6 | 40.1 | 48.0 | 56.8 | 64.6 | 69.1 | 68.3 | 62.1 | 49.5 | 41.3 | 33.6 | 49.7   |
| 045 | LAFAYETTE               | MAX     | 46.6                                     | 52.4 | 62.2 | 71.6 | 78.7 | 85.6 | 89.1 | 88.2 | 82.2 | 72.3 | 60.6 | 50.5 | 70.0   |
|     |                         | MEAN    | 37.5                                     | 42.3 | 51.0 | 59.4 | 67.1 | 74.6 | 78.3 | 76.9 | 70.7 | 60.1 | 50.1 | 41.1 | 59.1   |
|     |                         | MIN     | 28.4                                     | 32.2 | 39.8 | 47.2 | 55.4 | 63.5 | 67.5 | 65.6 | 59.2 | 47.8 | 39.6 | 31.6 | 48.2   |
| 046 | LANCING 6 NW            | MAX     | 43.4                                     | 48.3 | 57.4 | 67.1 | 74.7 | 81.6 | 84.8 | 83.9 | 78.1 | 68.8 | 56.9 | 47.7 | 66.1   |
|     |                         | MEAN    | 33.7                                     | 37.3 | 45.3 | 53.9 | 61.9 | 69.9 | 73.7 | 72.4 | 66.1 | 55.4 | 45.7 | 37.4 | 54.4   |
|     |                         | MIN     | 24.0                                     | 26.2 | 33.1 | 40.6 | 49.0 | 58.2 | 62.6 | 60.9 | 54.1 | 42.0 | 34.5 | 27.1 | 42.7   |
| 047 | LAWRENCEBURG FILTER PLT | MAX     | 46.7                                     | 51.7 | 61.0 | 69.8 | 76.5 | 83.7 | 87.3 | 86.6 | 80.8 | 70.8 | 59.7 | 50.0 | 68.7   |
|     |                         | MEAN    | 36.8                                     | 40.6 | 49.5 | 57.7 | 65.3 | 72.8 | 76.7 | 75.6 | 69.3 | 58.2 | 48.6 | 40.3 | 57.6   |
|     |                         | MIN     | 26.9                                     | 29.4 | 37.9 | 45.6 | 54.1 | 61.9 | 66.0 | 64.5 | 57.7 | 45.5 | 37.5 | 30.5 | 46.5   |
| 048 | LEBANON                 | MAX     | 46.2                                     | 51.4 | 60.6 | 70.1 | 78.4 | 86.4 | 90.2 | 89.3 | 83.0 | 72.4 | 60.5 | 50.4 | 69.9   |
|     |                         | MEAN    | 35.2                                     | 39.2 | 48.1 | 56.8 | 65.7 | 74.3 | 78.3 | 76.7 | 69.8 | 58.0 | 48.1 | 39.1 | 57.4   |
|     |                         | MIN     | 24.2                                     | 26.9 | 35.6 | 43.5 | 52.9 | 62.1 | 66.4 | 64.1 | 56.6 | 43.5 | 35.7 | 27.8 | 44.9   |
| 050 | LENOIR CITY             | MAX     | 47.2                                     | 52.2 | 61.4 | 70.6 | 78.3 | 85.6 | 89.0 | 88.2 | 82.5 | 71.9 | 60.7 | 51.0 | 69.9   |
|     |                         | MEAN    | 37.3                                     | 40.9 | 49.4 | 57.8 | 66.4 | 74.7 | 78.7 | 77.6 | 71.4 | 59.3 | 49.3 | 40.7 | 58.6   |
|     |                         | MIN     | 27.4                                     | 29.5 | 37.4 | 44.9 | 54.5 | 63.7 | 68.3 | 67.0 | 60.3 | 46.7 | 37.9 | 30.4 | 47.3   |
| 051 | LEWISBURG EXP STN       | MAX     | 46.1                                     | 51.1 | 60.6 | 70.0 | 78.4 | 86.3 | 90.0 | 89.5 | 83.0 | 72.3 | 60.2 | 49.9 | 69.8   |
|     |                         | MEAN    | 35.4                                     | 39.0 | 47.8 | 56.0 | 64.9 | 73.3 | 77.4 | 76.0 | 69.2 | 57.7 | 47.6 | 38.7 | 56.9   |
|     |                         | MIN     | 24.6                                     | 26.8 | 34.9 | 41.9 | 51.4 | 60.3 | 64.7 | 62.4 | 55.4 | 43.0 | 35.0 | 27.4 | 44.0   |
| 052 | LEXINGTON               | MAX     | 46.8                                     | 52.6 | 61.9 | 71.8 | 79.5 | 87.4 | 90.7 | 89.5 | 83.7 | 73.0 | 60.8 | 50.3 | 70.7   |
|     |                         | MEAN    | 36.9                                     | 41.6 | 50.2 | 58.9 | 67.6 | 76.2 | 79.7 | 78.5 | 72.2 | 60.2 | 49.8 | 40.5 | 59.4   |
|     |                         | MIN     | 27.0                                     | 30.5 | 38.4 | 45.9 | 55.7 | 64.9 | 68.7 | 67.4 | 60.6 | 47.3 | 38.8 | 30.7 | 48.0   |





# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

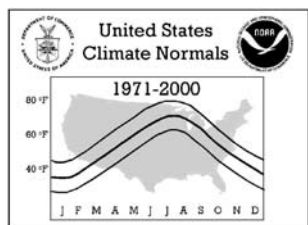
## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 9

| No.                         | Station Name | Element | TEMPERATURE NORMALS (Degrees Fahrenheit) |      |      |      |      |      |      |      |      |      |      |      |        |
|-----------------------------|--------------|---------|--|------|------|------|------|------|------|------|------|------|------|------|--------|
|                             |              |         | JAN                                      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 053 LINDEN 2                | MAX          | 48.8    | 54.6                                     | 64.1 | 73.2 | 80.0 | 87.2 | 90.6 | 90.1 | 84.4 | 74.1 | 62.5 | 52.3 | 71.8 |        |
|                             | MEAN         | 36.6    | 41.0                                     | 49.5 | 58.0 | 66.3 | 74.3 | 78.3 | 76.9 | 70.4 | 58.5 | 48.8 | 40.1 | 58.2 |        |
|                             | MIN          | 24.4    | 27.4                                     | 34.9 | 42.7 | 52.5 | 61.3 | 66.0 | 63.7 | 56.3 | 42.9 | 35.1 | 27.9 | 44.6 |        |
| 055 LIVINGSTON RADIO WLIV   | MAX          | 45.5    | 50.5                                     | 59.9 | 69.0 | 76.7 | 84.2 | 87.7 | 86.9 | 80.8 | 70.5 | 59.3 | 50.5 | 68.5 |        |
|                             | MEAN         | 35.1    | 38.7                                     | 47.3 | 55.7 | 64.2 | 72.5 | 76.1 | 74.8 | 68.4 | 56.9 | 47.2 | 39.9 | 56.4 |        |
|                             | MIN          | 24.7    | 26.9                                     | 34.7 | 42.4 | 51.6 | 60.7 | 64.5 | 62.7 | 56.0 | 43.3 | 35.0 | 29.3 | 44.3 |        |
| 056 MARTIN UNIV OF TENN BRA | MAX          | 43.6    | 49.5                                     | 59.4 | 69.2 | 78.0 | 86.6 | 90.4 | 89.5 | 83.0 | 72.4 | 59.3 | 48.3 | 69.1 |        |
|                             | MEAN         | 34.0    | 38.8                                     | 48.2 | 57.5 | 66.6 | 75.3 | 79.3 | 77.5 | 70.4 | 59.0 | 48.1 | 38.3 | 57.8 |        |
|                             | MIN          | 24.3    | 28.0                                     | 37.0 | 45.7 | 55.2 | 64.0 | 68.1 | 65.5 | 57.7 | 45.6 | 36.8 | 28.3 | 46.4 |        |
| 057 MC MINNVILLE            | MAX          | 48.2    | 53.3                                     | 62.2 | 71.0 | 77.5 | 84.4 | 87.3 | 86.5 | 80.7 | 71.4 | 60.6 | 51.8 | 69.6 |        |
|                             | MEAN         | 38.8    | 42.7                                     | 50.8 | 58.6 | 66.0 | 73.5 | 77.0 | 75.9 | 70.0 | 59.2 | 49.9 | 42.1 | 58.7 |        |
|                             | MIN          | 29.3    | 32.0                                     | 39.3 | 46.1 | 54.5 | 62.5 | 66.6 | 65.2 | 59.2 | 46.9 | 39.1 | 32.4 | 47.8 |        |
| 058 MEMPHIS INTL AP         | MAX          | 48.6    | 54.4                                     | 63.3 | 72.4 | 80.4 | 88.5 | 92.1 | 91.2 | 85.3 | 75.1 | 62.1 | 52.2 | 72.1 |        |
|                             | MEAN         | 39.9    | 44.9                                     | 53.5 | 62.1 | 70.6 | 78.7 | 82.5 | 81.2 | 74.8 | 63.8 | 52.3 | 43.3 | 62.3 |        |
|                             | MIN          | 31.3    | 35.5                                     | 43.7 | 51.9 | 60.8 | 68.8 | 72.9 | 71.2 | 64.3 | 52.5 | 42.6 | 34.5 | 52.5 |        |
| 059 MEMPHIS WSFO            | MAX          | 47.6    | 53.1                                     | 62.2 | 71.6 | 79.6 | 87.7 | 91.1 | 90.0 | 84.2 | 74.1 | 61.7 | 51.3 | 71.2 |        |
|                             | MEAN         | 37.9    | 42.3                                     | 51.2 | 59.8 | 68.8 | 77.3 | 81.1 | 79.5 | 72.9 | 61.5 | 50.8 | 41.6 | 60.4 |        |
|                             | MIN          | 28.2    | 31.5                                     | 40.1 | 47.9 | 58.0 | 66.8 | 71.1 | 68.9 | 61.5 | 48.9 | 39.9 | 31.9 | 49.6 |        |
| 060 MILAN EXP STN           | MAX          | 44.9    | 50.7                                     | 60.3 | 70.3 | 78.4 | 86.2 | 89.6 | 89.0 | 83.0 | 72.6 | 59.7 | 49.3 | 69.5 |        |
|                             | MEAN         | 33.9    | 38.3                                     | 47.5 | 56.9 | 65.7 | 73.7 | 77.3 | 75.5 | 68.7 | 57.4 | 47.1 | 37.8 | 56.7 |        |
|                             | MIN          | 22.9    | 25.9                                     | 34.7 | 43.5 | 53.0 | 61.1 | 65.0 | 62.0 | 54.3 | 42.1 | 34.4 | 26.3 | 43.8 |        |
| 061 MONTEAGLE               | MAX          | 43.2    | 48.2                                     | 56.9 | 66.0 | 73.2 | 80.2 | 83.4 | 83.0 | 77.5 | 67.6 | 56.6 | 47.2 | 65.3 |        |
|                             | MEAN         | 34.7    | 39.2                                     | 47.3 | 56.0 | 63.7 | 70.9 | 74.6 | 73.8 | 68.3 | 57.6 | 47.7 | 38.6 | 56.0 |        |
|                             | MIN          | 26.2    | 30.1                                     | 37.6 | 45.9 | 54.2 | 61.5 | 65.8 | 64.6 | 59.0 | 47.6 | 38.7 | 29.9 | 46.8 |        |
| 063 MORRISTOWN RADIO WCRK   | MAX          | 44.6    | 50.0                                     | 59.5 | 67.9 | 76.2 | 83.3 | 86.7 | 85.7 | 79.8 | 69.7 | 58.4 | 48.3 | 67.5 |        |
|                             | MEAN         | 35.5    | 39.2                                     | 47.5 | 55.7 | 64.4 | 72.4 | 76.6 | 75.4 | 69.2 | 57.6 | 47.4 | 38.8 | 56.6 |        |
|                             | MIN          | 26.3    | 28.4                                     | 35.4 | 43.4 | 52.6 | 61.5 | 66.4 | 65.1 | 58.6 | 45.4 | 36.4 | 29.3 | 45.7 |        |
| 064 MOSCOW                  | MAX          | 49.4    | 55.5                                     | 64.6 | 73.4 | 79.8 | 86.8 | 90.2 | 89.4 | 83.9 | 74.1 | 63.2 | 52.9 | 71.9 |        |
|                             | MEAN         | 39.5    | 44.5                                     | 53.0 | 61.0 | 68.8 | 76.1 | 79.6 | 78.2 | 71.8 | 60.8 | 51.8 | 42.9 | 60.7 |        |
|                             | MIN          | 29.6    | 33.4                                     | 41.3 | 48.5 | 57.8 | 65.4 | 69.0 | 66.9 | 59.7 | 47.4 | 40.3 | 32.9 | 49.4 |        |
| 065 MOUNTAIN CITY 2         | MAX          | 43.3    | 47.1                                     | 55.8 | 64.6 | 72.4 | 79.2 | 82.4 | 81.2 | 76.1 | 66.7 | 56.6 | 47.0 | 64.4 |        |
|                             | MEAN         | 31.3    | 34.6                                     | 42.7 | 50.4 | 59.0 | 66.4 | 70.2 | 68.8 | 63.2 | 51.6 | 43.0 | 34.7 | 51.3 |        |
|                             | MIN          | 19.2    | 22.1                                     | 29.6 | 36.1 | 45.6 | 53.6 | 58.0 | 56.4 | 50.2 | 36.5 | 29.3 | 22.4 | 38.3 |        |
| 066 MT LECONTE              | MAX          | 32.6    | 34.9                                     | 42.6 | 51.4 | 58.7 | 65.3 | 68.7 | 67.3 | 62.5 | 55.0 | 44.4 | 36.4 | 51.7 |        |
|                             | MEAN         | 24.8    | 26.5                                     | 33.2 | 41.0 | 48.9 | 55.7 | 58.8 | 57.4 | 52.7 | 45.1 | 35.7 | 28.4 | 42.4 |        |
|                             | MIN          | 17.0    | 18.0                                     | 23.8 | 30.6 | 39.1 | 46.0 | 48.9 | 47.4 | 42.8 | 35.1 | 27.0 | 20.4 | 33.0 |        |
| 067 MOUNT PLEASANT 1 N      | MAX          | 46.9    | 52.1                                     | 61.7 | 71.4 | 78.4 | 86.1 | 89.7 | 89.2 | 83.1 | 72.7 | 60.9 | 50.7 | 70.2 |        |
|                             | MEAN         | 36.8    | 40.9                                     | 50.0 | 58.9 | 67.0 | 75.1 | 78.9 | 77.4 | 70.7 | 59.1 | 49.0 | 40.0 | 58.7 |        |
|                             | MIN          | 26.6    | 29.6                                     | 38.2 | 46.4 | 55.5 | 64.0 | 68.1 | 65.6 | 58.2 | 45.4 | 37.0 | 29.2 | 47.0 |        |
| 068 MURFREESBORO 5 N        | MAX          | 45.5    | 50.6                                     | 60.0 | 69.5 | 77.4 | 85.3 | 89.1 | 88.6 | 82.5 | 72.0 | 60.1 | 49.6 | 69.2 |        |
|                             | MEAN         | 35.4    | 39.2                                     | 48.3 | 56.9 | 65.7 | 74.0 | 78.1 | 76.7 | 70.0 | 58.1 | 48.3 | 39.2 | 57.5 |        |
|                             | MIN          | 25.3    | 27.8                                     | 36.5 | 44.2 | 54.0 | 62.6 | 67.1 | 64.8 | 57.4 | 44.1 | 36.4 | 28.7 | 45.7 |        |
| 069 NASHVILLE INTL AP       | MAX          | 45.6    | 51.4                                     | 60.7 | 69.8 | 77.5 | 85.1 | 88.7 | 87.8 | 81.5 | 71.1 | 59.0 | 49.4 | 69.0 |        |
|                             | MEAN         | 36.8    | 41.3                                     | 50.1 | 58.5 | 67.1 | 75.1 | 79.1 | 77.9 | 71.3 | 59.9 | 49.3 | 40.5 | 58.9 |        |
|                             | MIN          | 27.9    | 31.2                                     | 39.4 | 47.1 | 56.7 | 65.0 | 69.5 | 68.0 | 61.0 | 48.6 | 39.5 | 31.5 | 48.8 |        |
| 070 NEAPOLIS EXP STN        | MAX          | 47.4    | 52.6                                     | 61.9 | 71.2 | 79.1 | 86.7 | 90.5 | 89.6 | 83.3 | 73.1 | 61.4 | 51.5 | 70.7 |        |
|                             | MEAN         | 36.9    | 40.9                                     | 49.7 | 58.0 | 66.5 | 74.7 | 78.7 | 77.2 | 70.5 | 58.9 | 49.3 | 40.6 | 58.5 |        |
|                             | MIN          | 26.4    | 29.2                                     | 37.5 | 44.8 | 53.9 | 62.6 | 66.8 | 64.8 | 57.7 | 44.7 | 37.2 | 29.7 | 46.3 |        |
| 071 NEWBERN                 | MAX          | 43.6    | 49.5                                     | 59.3 | 69.7 | 78.3 | 86.3 | 89.9 | 88.5 | 82.4 | 72.3 | 59.1 | 48.3 | 68.9 |        |
|                             | MEAN         | 34.8    | 39.6                                     | 48.8 | 58.7 | 67.6 | 75.8 | 79.5 | 77.5 | 70.6 | 59.4 | 48.6 | 39.1 | 58.3 |        |
|                             | MIN          | 25.9    | 29.6                                     | 38.3 | 47.6 | 56.8 | 65.2 | 69.0 | 66.5 | 58.8 | 46.4 | 38.1 | 29.8 | 47.7 |        |
| 073 NEWPORT 1 NW            | MAX          | 46.8    | 52.3                                     | 61.3 | 70.3 | 77.2 | 84.0 | 87.0 | 85.8 | 80.4 | 70.1 | 59.7 | 50.2 | 68.8 |        |
|                             | MEAN         | 36.9    | 40.4                                     | 48.7 | 56.8 | 65.0 | 72.8 | 76.4 | 75.1 | 68.8 | 57.0 | 47.5 | 39.5 | 57.1 |        |
|                             | MIN          | 26.9    | 28.5                                     | 36.0 | 43.3 | 52.7 | 61.5 | 65.8 | 64.3 | 57.1 | 43.8 | 35.2 | 28.7 | 45.3 |        |
| 074 NORRIS                  | MAX          | 44.1    | 49.8                                     | 59.9 | 69.5 | 76.5 | 82.7 | 86.1 | 84.9 | 79.9 | 69.7 | 58.3 | 47.9 | 67.4 |        |
|                             | MEAN         | 33.8    | 37.6                                     | 46.2 | 54.5 | 62.8 | 70.5 | 74.4 | 73.3 | 67.5 | 55.9 | 45.9 | 37.2 | 55.0 |        |
|                             | MIN          | 23.5    | 25.3                                     | 32.4 | 39.4 | 49.0 | 58.3 | 62.6 | 61.7 | 55.1 | 42.0 | 33.4 | 26.4 | 42.4 |        |
| 076 OAK RIDGE ATDD          | MAX          | 45.9    | 51.6                                     | 61.0 | 70.5 | 77.8 | 84.9 | 88.1 | 87.2 | 81.1 | 71.1 | 59.0 | 49.0 | 68.9 |        |
|                             | MEAN         | 36.6    | 40.6                                     | 48.8 | 57.2 | 65.6 | 73.3 | 77.3 | 76.2 | 70.0 | 58.4 | 47.7 | 39.4 | 57.6 |        |
|                             | MIN          | 27.2    | 29.5                                     | 36.6 | 43.8 | 53.4 | 61.7 | 66.4 | 65.2 | 58.8 | 45.7 | 36.4 | 29.8 | 46.2 |        |
| 078 ONEIDA                  | MAX          | 43.2    | 48.0                                     | 57.6 | 67.3 | 74.5 | 81.6 | 85.1 | 84.2 | 78.3 | 68.2 | 57.5 | 47.0 | 66.0 |        |
|                             | MEAN         | 33.5    | 37.0                                     | 45.1 | 53.4 | 61.7 | 69.9 | 74.0 | 72.6 | 66.4 | 54.8 | 45.6 | 36.9 | 54.2 |        |
|                             | MIN          | 23.7    | 26.0                                     | 32.5 | 39.5 | 48.8 | 58.1 | 62.9 | 60.9 | 54.4 | 41.3 | 33.6 | 26.7 | 42.4 |        |
| 080 PARIS 2 SE              | MAX          | 43.1    | 49.0                                     | 59.2 | 69.1 | 76.8 | 84.4 | 88.0 | 87.2 | 80.7 | 69.9 | 58.0 | 47.7 | 67.8 |        |
|                             | MEAN         | 33.8    | 38.4                                     | 47.9 | 57.1 | 65.6 | 73.8 | 77.7 | 76.4 | 69.6 | 58.0 | 47.7 | 38.2 | 57.0 |        |
|                             | MIN          | 24.5    | 27.7                                     | 36.5 | 45.0 | 54.3 | 63.1 | 67.4 | 65.5 | 58.4 | 46.1 | 37.3 | 28.7 | 46.2 |        |
| 081 PIKEVILLE               | MAX          | 48.3    | 53.7                                     | 62.8 | 71.9 | 78.5 | 85.1 | 88.4 | 87.6 | 82.3 | 72.6 | 60.9 | 51.6 | 70.3 |        |
|                             | MEAN         | 37.8    | 41.7                                     | 50.0 | 57.8 | 65.4 | 72.7 | 76.6 | 75.4 | 69.7 | 58.6 | 48.6 | 40.6 | 57.9 |        |
|                             | MIN          | 27.3    | 29.7                                     | 37.1 | 43.6 | 52.3 | 60.2 | 64.7 | 63.1 | 57.0 | 44.5 | 36.3 | 29.6 | 45.5 |        |





# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

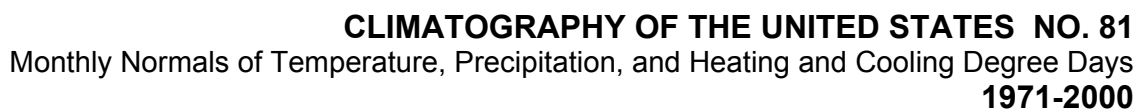
## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

### 1971-2000

## TENNESSEE

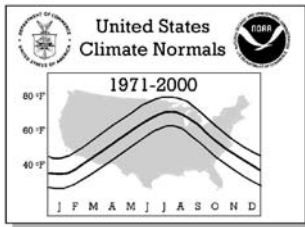
Page 11

| No. | Station Name            | PRECIPITATION NORMALS (Total in Inches) |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|-------------------------|---|------|------|------|------|------|------|------|------|------|------|------|--------|
|     |                         | JAN                                     | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 001 | ALLARDT                 | 4.91                                    | 4.08 | 5.46 | 4.12 | 5.64 | 5.18 | 5.14 | 4.66 | 3.71 | 3.21 | 4.66 | 4.95 | 55.72  |
| 002 | AMES PLANTATION         | 4.63                                    | 4.32 | 5.83 | 5.51 | 5.68 | 4.71 | 4.38 | 2.86 | 3.89 | 3.67 | 5.23 | 5.36 | 56.07  |
| 003 | ATHENS                  | 6.09                                    | 4.91 | 6.32 | 4.80 | 4.86 | 4.08 | 4.65 | 3.69 | 5.04 | 3.61 | 5.01 | 5.33 | 58.39  |
| 004 | BETHPAGE 1 S            | 4.37                                    | 4.13 | 5.56 | 4.19 | 5.64 | 4.41 | 4.65 | 3.80 | 4.01 | 3.44 | 4.78 | 5.46 | 54.44  |
| 005 | BOLIVAR WATERWORKS      | 4.29                                    | 4.30 | 5.77 | 5.20 | 5.65 | 4.43 | 4.06 | 3.04 | 4.21 | 3.38 | 5.25 | 5.51 | 55.09  |
| 006 | BOLTON                  | 3.81                                    | 3.94 | 5.27 | 5.30 | 5.34 | 4.17 | 4.01 | 2.96 | 4.00 | 3.30 | 5.26 | 5.65 | 53.01  |
| 007 | BRISTOL TRI CITY AP     | 3.52                                    | 3.40 | 3.91 | 3.23 | 4.32 | 3.89 | 4.21 | 3.00 | 3.08 | 2.30 | 3.08 | 3.39 | 41.33  |
| 008 | BROWNSVILLE             | 4.25                                    | 4.32 | 5.38 | 4.87 | 5.61 | 4.29 | 4.35 | 2.77 | 3.56 | 3.13 | 4.95 | 5.77 | 53.25  |
| 009 | CARTHAGE                | 4.60                                    | 4.07 | 5.46 | 4.00 | 5.38 | 4.40 | 4.96 | 3.90 | 3.68 | 3.29 | 4.26 | 5.47 | 53.47  |
| 010 | CELINA                  | 4.46                                    | 4.23 | 5.33 | 4.11 | 5.35 | 4.23 | 4.52 | 3.74 | 3.83 | 3.10 | 4.41 | 4.94 | 52.25  |
| 011 | CENTERVILLE WATER PL    | 4.30                                    | 4.29 | 5.72 | 4.74 | 5.66 | 4.34 | 4.68 | 3.00 | 3.89 | 3.30 | 5.13 | 5.50 | 54.55  |
| 012 | CHATTANOOGA AP          | 5.40                                    | 4.85 | 6.19 | 4.23 | 4.28 | 3.99 | 4.73 | 3.59 | 4.31 | 3.26 | 4.88 | 4.81 | 54.52  |
| 013 | CHEATHAM LOCK AND DAM   | 3.85                                    | 4.33 | 5.51 | 4.21 | 5.43 | 4.61 | 4.47 | 2.84 | 3.80 | 3.23 | 4.49 | 4.98 | 51.75  |
| 014 | CLARKSVILLE SEWAGE PLT  | 4.10                                    | 4.20 | 5.41 | 4.26 | 5.01 | 4.43 | 4.28 | 3.33 | 3.76 | 3.25 | 4.60 | 5.15 | 51.78  |
| 015 | CLEVELAND FILTER PLANT  | 5.37                                    | 4.60 | 6.19 | 4.42 | 4.94 | 4.51 | 4.29 | 3.43 | 4.46 | 3.39 | 4.85 | 4.97 | 55.42  |
| 016 | COLUMBIA 3 WNW          | 4.66                                    | 4.35 | 6.25 | 4.85 | 5.57 | 4.14 | 5.03 | 3.48 | 3.94 | 3.55 | 4.85 | 5.46 | 56.13  |
| 017 | COOKEVILLE              | 5.33                                    | 4.43 | 5.86 | 4.52 | 5.66 | 4.49 | 5.07 | 4.28 | 4.11 | 3.47 | 4.87 | 5.73 | 57.82  |
| 018 | COPPERHILL              | 5.78                                    | 5.47 | 6.43 | 4.94 | 5.00 | 4.56 | 5.40 | 4.78 | 4.52 | 3.28 | 4.99 | 5.00 | 60.15  |
| 019 | COVINGTON 1 W           | 4.21                                    | 4.27 | 5.41 | 5.34 | 5.22 | 4.20 | 4.13 | 2.75 | 3.62 | 3.26 | 5.28 | 5.61 | 53.30  |
| 020 | CROSSVILLE AP           | 5.15                                    | 4.33 | 6.07 | 4.60 | 5.48 | 4.73 | 5.13 | 4.07 | 3.91 | 3.24 | 5.23 | 5.16 | 57.10  |
| 021 | CROSSVILLE EXP STN      | 5.78                                    | 4.79 | 6.37 | 4.78 | 5.87 | 4.81 | 5.04 | 3.81 | 3.84 | 3.71 | 5.29 | 6.20 | 60.29  |
| 022 | DAYTON 2 SE             | 5.51                                    | 4.77 | 6.32 | 4.60 | 5.35 | 4.10 | 4.58 | 4.10 | 4.62 | 3.47 | 5.19 | 5.62 | 58.23  |
| 023 | DICKSON                 | 4.30                                    | 4.51 | 5.72 | 4.70 | 5.84 | 4.58 | 4.64 | 2.96 | 4.15 | 3.43 | 5.25 | 5.36 | 55.44  |
| 024 | DOVER 1 W               | 4.28                                    | 4.49 | 5.40 | 4.55 | 4.89 | 4.37 | 4.40 | 3.66 | 3.88 | 3.51 | 4.89 | 5.08 | 53.40  |
| 025 | DRESDEN                 | 4.14                                    | 4.35 | 5.17 | 5.09 | 5.50 | 4.94 | 4.93 | 3.43 | 3.82 | 3.28 | 4.94 | 5.21 | 54.80  |
| 026 | DYERSBURG AP            | 3.79                                    | 4.19 | 4.69 | 4.81 | 4.74 | 4.49 | 4.22 | 2.95 | 3.02 | 3.45 | 4.87 | 5.14 | 50.36  |
| 027 | ELIZABETHTON            | 3.60                                    | 3.75 | 3.92 | 3.29 | 5.11 | 4.40 | 4.75 | 3.45 | 2.99 | 2.07 | 3.02 | 3.49 | 43.84  |
| 028 | ERWIN 1 W               | 3.39                                    | 3.41 | 4.07 | 3.71 | 5.47 | 4.81 | 5.82 | 3.74 | 3.39 | 2.16 | 2.74 | 3.13 | 45.84  |
| 029 | FAYETTEVILLE WATER PLAN | 5.29                                    | 4.58 | 6.41 | 4.49 | 4.97 | 4.70 | 4.19 | 3.13 | 4.12 | 3.62 | 5.23 | 5.63 | 56.36  |
| 030 | FRANKLIN SEWAGE PLANT   | 4.45                                    | 4.18 | 5.78 | 4.37 | 5.68 | 4.12 | 4.64 | 3.57 | 3.90 | 3.27 | 4.95 | 5.42 | 54.33  |
| 031 | GAINESBORO              | 4.98                                    | 4.13 | 5.60 | 4.19 | 5.19 | 4.94 | 4.80 | 3.78 | 4.13 | 3.72 | 4.77 | 5.71 | 55.94  |
| 032 | GATLINBURG 2 SW         | 4.88                                    | 4.25 | 5.56 | 4.36 | 5.58 | 5.82 | 6.07 | 4.59 | 4.62 | 2.96 | 4.02 | 4.47 | 57.18  |
| 033 | GREENEVILLE EXP STN     | 3.53                                    | 3.48 | 4.31 | 3.72 | 4.47 | 4.22 | 4.73 | 3.80 | 3.25 | 2.35 | 3.00 | 3.42 | 44.28  |
| 034 | HUNTINGDON WATER PLANT  | 4.38                                    | 4.37 | 5.43 | 4.57 | 5.16 | 4.31 | 4.90 | 3.37 | 4.29 | 3.62 | 4.95 | 5.35 | 54.70  |
| 035 | JACKSON MCKELLAR-SPES A | 4.33                                    | 4.25 | 5.13 | 5.11 | 5.64 | 5.19 | 4.74 | 2.88 | 3.76 | 3.32 | 5.07 | 5.36 | 54.78  |
| 036 | JACKSON EXP STA         | 4.32                                    | 4.17 | 5.39 | 4.79 | 5.78 | 4.99 | 4.74 | 2.92 | 3.91 | 3.39 | 5.11 | 5.35 | 54.86  |
| 037 | JAMESTOWN               | 5.03                                    | 4.33 | 5.64 | 4.33 | 5.81 | 5.09 | 4.80 | 4.48 | 4.09 | 3.25 | 4.61 | 5.39 | 56.85  |
| 038 | JEFFERSON CITY          | 4.05                                    | 3.95 | 4.60 | 3.54 | 4.76 | 3.94 | 4.26 | 3.90 | 2.62 | 2.15 | 3.44 | 4.24 | 45.45  |
| 039 | KINGSPORT               | 3.87                                    | 3.67 | 4.20 | 3.35 | 4.50 | 4.00 | 4.64 | 3.70 | 3.10 | 2.64 | 3.22 | 3.55 | 44.44  |
| 040 | KINGSTON                | 5.31                                    | 4.50 | 5.70 | 4.21 | 5.07 | 4.21 | 4.49 | 3.29 | 3.28 | 3.00 | 4.75 | 5.42 | 53.23  |
| 041 | KINGSTON SPRINGS        | 4.02                                    | 4.37 | 5.39 | 4.27 | 5.37 | 4.28 | 4.03 | 3.27 | 4.03 | 3.40 | 4.78 | 5.06 | 52.27  |
| 042 | KNOXVILLE EXP STN       | 5.30                                    | 4.43 | 5.66 | 4.22 | 4.98 | 4.49 | 4.91 | 3.52 | 3.25 | 3.05 | 4.43 | 5.09 | 53.33  |
| 043 | KNOXVILLE AP            | 4.57                                    | 4.01 | 5.17 | 3.99 | 4.68 | 4.04 | 4.71 | 2.89 | 3.04 | 2.65 | 3.98 | 4.49 | 48.22  |
| 044 | KNOXVILLE UNIV OF TENN  | 4.75                                    | 3.91 | 5.04 | 3.52 | 4.33 | 4.77 | 3.97 | 3.40 | 3.03 | 3.03 | 4.10 | 4.37 | 48.22  |
| 045 | LAFAYETTE               | 4.63                                    | 4.37 | 5.71 | 4.34 | 5.65 | 4.54 | 4.76 | 3.86 | 4.40 | 3.62 | 4.93 | 5.57 | 56.38  |
| 046 | LANCING 6 NW            | 4.62                                    | 3.54 | 5.01 | 4.18 | 4.97 | 5.22 | 5.29 | 3.43 | 3.76 | 2.63 | 4.05 | 5.18 | 51.88  |
| 047 | LAWRENCEBURG FILTER PLT | 5.57                                    | 4.69 | 6.59 | 4.86 | 5.81 | 4.21 | 5.16 | 3.67 | 4.63 | 3.55 | 5.65 | 6.08 | 60.47  |
| 048 | LEBANON                 | 4.56                                    | 4.17 | 5.58 | 4.38 | 5.24 | 4.58 | 4.71 | 4.02 | 4.00 | 3.40 | 4.62 | 5.21 | 54.47  |
| 049 | LEBANON 7 N             | 4.51                                    | 4.22 | 5.49 | 4.00 | 5.25 | 4.51 | 4.36 | 4.07 | 3.92 | 3.29 | 4.76 | 5.30 | 53.68  |
| 050 | LENOIR CITY             | 5.08                                    | 4.63 | 5.78 | 4.43 | 5.03 | 4.15 | 4.45 | 3.59 | 3.26 | 3.05 | 4.28 | 5.12 | 52.85  |
| 051 | LEWISBURG EXP STN       | 4.97                                    | 4.07 | 6.32 | 4.51 | 5.33 | 4.43 | 4.58 | 3.12 | 4.50 | 3.79 | 5.15 | 5.38 | 56.15  |
| 052 | LEXINGTON               | 4.11                                    | 3.83 | 5.40 | 4.53 | 5.76 | 3.99 | 4.45 | 2.74 | 3.58 | 3.39 | 4.45 | 4.69 | 50.92  |
| 053 | LINDEN 2                | 4.93                                    | 4.48 | 5.85 | 4.64 | 5.99 | 4.80 | 4.70 | 3.25 | 4.17 | 3.44 | 5.06 | 5.88 | 57.19  |
| 054 | LIVINGSTON 5 NE         | 4.95                                    | 4.17 | 5.16 | 4.86 | 5.33 | 4.66 | 5.22 | 4.14 | 3.74 | 3.00 | 4.28 | 4.80 | 54.31  |
| 055 | LIVINGSTON RADIO WLIV   | 4.64                                    | 3.97 | 5.32 | 4.10 | 5.25 | 4.44 | 4.94 | 4.16 | 3.62 | 2.96 | 4.38 | 4.81 | 52.59  |
| 056 | MARTIN UNIV OF TENN BRA | 3.76                                    | 4.31 | 4.93 | 5.13 | 5.23 | 4.50 | 4.80 | 3.11 | 3.61 | 3.59 | 4.98 | 5.18 | 53.13  |
| 057 | MC MINNVILLE            | 4.55                                    | 4.16 | 5.84 | 4.22 | 5.08 | 4.52 | 4.51 | 3.52 | 3.94 | 3.25 | 4.83 | 5.23 | 53.65  |
| 058 | MEMPHIS INTL AP         | 4.24                                    | 4.31 | 5.58 | 5.79 | 5.15 | 4.30 | 4.22 | 3.00 | 3.31 | 3.31 | 5.76 | 5.68 | 54.65  |
| 059 | MEMPHIS WSFO            | 3.92                                    | 4.39 | 5.18 | 5.36 | 4.97 | 4.36 | 4.64 | 2.52 | 3.40 | 3.31 | 6.10 | 5.48 | 53.63  |
| 060 | MILAN EXP STN           | 4.31                                    | 4.31 | 5.16 | 4.82 | 5.49 | 4.51 | 4.65 | 3.03 | 4.24 | 3.33 | 4.89 | 5.64 | 54.38  |
| 061 | MONTEAGLE               | 5.98                                    | 5.04 | 6.94 | 5.03 | 5.52 | 4.78 | 5.44 | 4.04 | 4.94 | 4.25 | 5.88 | 5.93 | 63.77  |
| 062 | MONTEREY                | 5.85                                    | 4.66 | 6.27 | 4.80 | 5.93 | 4.87 | 4.70 | 4.70 | 4.22 | 3.80 | 5.35 | 6.12 | 61.27  |
| 063 | MORRISTOWN RADIO WCRK   | 4.19                                    | 4.02 | 4.58 | 3.53 | 4.46 | 4.17 | 4.74 | 3.89 | 2.74 | 2.15 | 3.35 | 4.17 | 45.99  |
| 064 | MOSCOW                  | 4.07                                    | 4.18 | 5.54 | 5.21 | 5.18 | 4.23 | 4.15 | 3.22 | 3.66 | 3.27 | 5.21 | 5.21 | 53.13  |
| 065 | MOUNTAIN CITY 2         | 3.85                                    | 4.08 | 4.68 | 3.99 | 5.23 | 4.22 | 4.25 | 3.87 | 3.57 | 2.80 | 3.13 | 3.84 | 47.51  |
| 066 | MT LECONTE              | 6.83                                    | 5.62 | 7.20 | 6.15 | 8.22 | 8.37 | 8.37 | 7.32 | 6.56 | 4.04 | 6.53 | 6.07 | 81.28  |
| 067 | MOUNT PLEASANT 1 N      | 4.61                                    | 4.60 | 6.54 | 5.08 | 5.91 | 4.23 | 5.10 | 3.46 | 4.28 | 3.43 | 5.30 | 5.51 | 58.05  |
| 068 | MURFREESBORO 5 N        | 4.59                                    | 3.96 | 5.84 | 4.22 | 5.25 | 4.57 | 4.91 | 3.63 | 4.53 | 3.45 | 4.80 | 5.23 | 54.98  |
| 069 | NASHVILLE INTL AP       | 3.97                                    | 3.69 | 4.87 | 3.93 | 5.07 | 4.08 | 3.77 | 3.28 | 3.59 | 2.87 | 4.45 | 4.54 | 48.11  |



## Page 12

|     |                        | PRECIPITATION NORMALS (Total in Inches) |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|------------------------|---|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name           | JAN                                     | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 070 | NEAPOLIS EXP STN       | 4.86                                    | 4.49 | 6.39 | 4.70 | 5.72 | 3.87 | 4.89 | 3.32 | 3.97 | 3.58 | 5.24 | 6.00 | 57.03  |
| 071 | NEWBERN                | 4.03                                    | 3.97 | 4.81 | 5.33 | 5.11 | 5.07 | 3.98 | 3.18 | 3.18 | 3.60 | 5.12 | 5.41 | 52.79  |
| 072 | NEWCOMB                | 4.34                                    | 4.20 | 5.02 | 4.11 | 5.37 | 4.41 | 4.57 | 4.37 | 3.45 | 2.95 | 4.25 | 4.43 | 51.47  |
| 073 | NEWPORT 1 NW           | 3.78                                    | 3.62 | 4.47 | 3.70 | 4.80 | 3.96 | 4.52 | 3.82 | 3.17 | 2.30 | 3.24 | 3.76 | 45.14  |
| 074 | NORRIS                 | 4.91                                    | 4.18 | 5.64 | 4.69 | 5.19 | 4.98 | 4.37 | 4.09 | 3.51 | 2.97 | 4.70 | 5.09 | 54.32  |
| 075 | NORTH SPRINGS 4NW      | 4.85                                    | 4.12 | 5.97 | 4.08 | 5.11 | 4.61 | 4.56 | 3.89 | 3.92 | 3.27 | 4.48 | 5.54 | 54.40  |
| 076 | OAK RIDGE ATDD         | 5.13                                    | 4.50 | 5.72 | 4.32 | 5.14 | 4.64 | 5.16 | 3.39 | 3.75 | 3.02 | 4.86 | 5.42 | 55.05  |
| 077 | OLD HICKORY DAM        | 3.86                                    | 3.87 | 4.93 | 3.71 | 5.11 | 4.30 | 3.65 | 2.92 | 3.75 | 3.09 | 4.35 | 5.13 | 48.67  |
| 078 | ONEIDA                 | 4.69                                    | 4.18 | 5.51 | 4.19 | 5.28 | 4.84 | 5.01 | 4.54 | 3.65 | 3.67 | 4.53 | 4.78 | 54.87  |
| 079 | ORLINDA                | 3.82                                    | 4.24 | 5.26 | 4.17 | 5.26 | 4.53 | 3.96 | 2.92 | 3.79 | 3.20 | 4.32 | 4.99 | 50.46  |
| 080 | PARIS 2 SE             | 4.23                                    | 4.40 | 5.31 | 4.73 | 5.02 | 4.58 | 4.51 | 3.76 | 3.90 | 3.35 | 4.86 | 5.03 | 53.68  |
| 081 | PIKEVILLE              | 5.16                                    | 4.52 | 5.85 | 4.34 | 5.12 | 4.31 | 4.24 | 3.66 | 4.08 | 3.27 | 4.79 | 5.20 | 54.54  |
| 082 | PORTLAND SEWAGE PLANT  | 4.23                                    | 4.14 | 5.55 | 4.23 | 5.51 | 4.58 | 4.46 | 3.58 | 3.79 | 3.43 | 4.73 | 5.06 | 53.29  |
| 083 | PULASKI WATER PLANT    | 5.21                                    | 4.65 | 6.21 | 4.39 | 4.93 | 4.58 | 4.40 | 3.29 | 4.36 | 3.53 | 5.26 | 5.66 | 56.47  |
| 084 | RIPLEY                 | 3.85                                    | 3.93 | 5.39 | 4.81 | 5.34 | 4.41 | 4.21 | 2.48 | 3.70 | 3.51 | 5.45 | 5.40 | 52.48  |
| 085 | ROCKWOOD 2             | 5.75                                    | 4.90 | 6.12 | 4.58 | 5.62 | 5.15 | 5.53 | 4.27 | 3.93 | 3.49 | 5.17 | 5.73 | 60.24  |
| 086 | ROGERSVILLE 1 NE       | 4.04                                    | 3.49 | 4.26 | 3.69 | 4.83 | 3.52 | 4.06 | 3.46 | 3.14 | 2.66 | 3.64 | 4.37 | 45.16  |
| 087 | SAMBURG WILDLIFE REF   | 3.51                                    | 4.07 | 4.78 | 5.01 | 5.39 | 4.39 | 3.94 | 3.23 | 3.35 | 3.64 | 4.78 | 5.10 | 51.19  |
| 088 | SAVANNAH 6 SW          | 5.06                                    | 4.54 | 6.04 | 5.34 | 6.54 | 4.52 | 4.50 | 3.07 | 4.13 | 3.45 | 5.76 | 5.94 | 58.89  |
| 089 | SELMER                 | 5.02                                    | 4.42 | 5.88 | 5.17 | 6.10 | 4.30 | 4.65 | 2.78 | 4.35 | 3.32 | 5.68 | 5.79 | 57.46  |
| 090 | SEVIERVILLE 1 SE       | 3.85                                    | 3.59 | 4.32 | 3.65 | 4.70 | 3.99 | 4.06 | 3.14 | 3.19 | 2.45 | 3.34 | 3.75 | 44.03  |
| 091 | SHELBYVILLE WATER DEPT | 4.99                                    | 4.34 | 6.23 | 4.27 | 5.30 | 4.77 | 5.05 | 3.36 | 4.25 | 3.88 | 5.37 | 5.35 | 57.16  |
| 092 | SMITHVILLE 2 SE        | 4.94                                    | 4.35 | 6.04 | 4.04 | 5.32 | 4.56 | 4.76 | 4.14 | 4.16 | 3.51 | 4.78 | 5.59 | 56.19  |
| 093 | SPARTA                 | 5.30                                    | 4.22 | 6.02 | 4.19 | 5.68 | 4.80 | 4.54 | 3.94 | 3.78 | 3.39 | 4.95 | 5.77 | 56.58  |
| 094 | SPRINGFIELD EXP STN    | 4.04                                    | 3.96 | 5.12 | 4.25 | 5.53 | 4.51 | 4.17 | 3.19 | 3.70 | 3.36 | 4.43 | 4.89 | 51.15  |
| 095 | STATESVILLE            | 5.26                                    | 4.48 | 6.04 | 4.47 | 5.54 | 4.16 | 5.38 | 4.06 | 4.28 | 3.59 | 4.68 | 5.80 | 57.74  |
| 096 | TAZEWELL               | 4.97                                    | 4.31 | 5.22 | 4.46 | 5.24 | 4.17 | 4.57 | 3.86 | 3.22 | 3.04 | 4.25 | 4.78 | 52.09  |
| 097 | TULLAHOMA              | 5.51                                    | 4.86 | 6.73 | 4.94 | 5.28 | 4.74 | 4.80 | 3.52 | 4.33 | 3.89 | 5.47 | 5.97 | 60.04  |
| 098 | UNION CITY             | 3.71                                    | 4.05 | 4.94 | 4.86 | 5.08 | 4.80 | 4.17 | 3.19 | 3.25 | 3.81 | 4.98 | 4.97 | 51.81  |
| 099 | WAVERLY                | 4.41                                    | 4.68 | 5.77 | 4.68 | 5.62 | 4.74 | 4.63 | 3.79 | 4.18 | 3.25 | 5.01 | 5.31 | 56.07  |
| 100 | WAYNESBORO             | 5.12                                    | 4.74 | 6.39 | 5.14 | 6.21 | 4.92 | 5.26 | 3.49 | 4.09 | 3.47 | 5.55 | 5.95 | 60.33  |
| 101 | WINCHESTER 1 E         | 4.94                                    | 4.46 | 6.89 | 4.26 | 4.60 | 4.82 | 3.88 | 2.61 | 4.46 | 2.96 | 4.59 | 5.79 | 54.26  |
| 102 | WOODBURY 1 WNW         | 5.06                                    | 4.41 | 6.26 | 4.34 | 5.35 | 4.50 | 4.79 | 3.98 | 4.43 | 3.69 | 4.64 | 5.66 | 57.11  |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     |                        |   |      |      |      |      |      |      |      |      |      |      |      |        |
|     | </                     |   |      |      |      |      |      |      |      |      |      |      |      |        |



# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

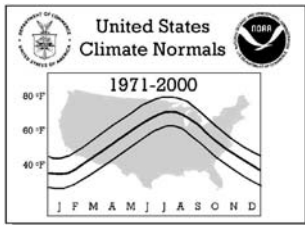
## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

### 1971-2000

## TENNESSEE

Page 13

| No. | Station Name            | Element | DEGREE DAYS (Total) |     |     |     |     |     |     |     |     |     |     |     | ANNUAL |
|-----|-------------------------|---------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
|     |                         |         | JAN                 | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |        |
| 001 | ALLARDT                 | HDD     | 946                 | 744 | 574 | 311 | 144 | 17  | 0   | 5   | 62  | 305 | 558 | 834 | 4500   |
|     |                         | CDD     | 0                   | 0   | 0   | 6   | 65  | 159 | 261 | 226 | 99  | 20  | 0   | 0   | 836    |
| 002 | AMES PLANTATION         | HDD     | 859                 | 654 | 457 | 200 | 65  | 2   | 0   | 0   | 21  | 190 | 453 | 741 | 3642   |
|     |                         | CDD     | 0                   | 0   | 6   | 26  | 148 | 320 | 449 | 403 | 223 | 55  | 6   | 0   | 1636   |
| 003 | ATHENS                  | HDD     | 886                 | 697 | 517 | 265 | 102 | 5   | 0   | 0   | 26  | 249 | 505 | 784 | 4036   |
|     |                         | CDD     | 0                   | 0   | 2   | 12  | 97  | 240 | 367 | 339 | 171 | 31  | 2   | 0   | 1261   |
| 005 | BOLIVAR WATERWORKS      | HDD     | 858                 | 652 | 456 | 197 | 67  | 2   | 0   | 1   | 26  | 203 | 459 | 744 | 3665   |
|     |                         | CDD     | 0                   | 0   | 6   | 30  | 148 | 322 | 450 | 404 | 219 | 52  | 4   | 0   | 1635   |
| 007 | BRISTOL TRI CITY AP     | HDD*    | 939                 | 745 | 561 | 306 | 110 | 11  | 3   | 2   | 52  | 303 | 570 | 843 | 4445   |
|     |                         | CDD*    | 0                   | 0   | 1   | 10  | 61  | 198 | 304 | 260 | 116 | 6   | 0   | 0   | 956    |
| 008 | BROWNSVILLE             | HDD     | 864                 | 644 | 439 | 184 | 47  | 1   | 0   | 0   | 18  | 178 | 444 | 742 | 3561   |
|     |                         | CDD     | 0                   | 0   | 6   | 38  | 168 | 359 | 483 | 431 | 236 | 54  | 5   | 0   | 1780   |
| 009 | CARTHAGE                | HDD     | 920                 | 727 | 534 | 270 | 106 | 5   | 0   | 0   | 26  | 238 | 505 | 796 | 4127   |
|     |                         | CDD     | 0                   | 0   | 1   | 11  | 100 | 251 | 389 | 357 | 184 | 33  | 1   | 0   | 1327   |
| 010 | CELINA                  | HDD     | 928                 | 725 | 546 | 294 | 122 | 6   | 0   | 1   | 37  | 260 | 518 | 806 | 4243   |
|     |                         | CDD     | 0                   | 0   | 0   | 7   | 99  | 242 | 363 | 322 | 154 | 37  | 2   | 0   | 1226   |
| 011 | CENTERVILLE WATER PL    | HDD     | 856                 | 649 | 447 | 188 | 62  | 2   | 0   | 1   | 29  | 221 | 479 | 755 | 3689   |
|     |                         | CDD     | 0                   | 0   | 4   | 14  | 122 | 276 | 397 | 360 | 186 | 43  | 3   | 0   | 1405   |
| 012 | CHATTANOOGA AP          | HDD*    | 797                 | 618 | 432 | 195 | 48  | 2   | 0   | 0   | 16  | 180 | 442 | 697 | 3427   |
|     |                         | CDD*    | 0                   | 0   | 5   | 32  | 124 | 312 | 450 | 418 | 229 | 35  | 2   | 1   | 1608   |
| 013 | CHEATHAM LOCK AND DAM   | HDD     | 957                 | 757 | 552 | 313 | 143 | 10  | 0   | 2   | 49  | 276 | 549 | 825 | 4433   |
|     |                         | CDD     | 0                   | 0   | 0   | 12  | 106 | 231 | 379 | 341 | 168 | 35  | 1   | 0   | 1273   |
| 014 | CLARKSVILLE SEWAGE PLT  | HDD     | 924                 | 705 | 504 | 242 | 93  | 4   | 0   | 2   | 33  | 242 | 507 | 802 | 4058   |
|     |                         | CDD     | 0                   | 0   | 1   | 24  | 132 | 295 | 432 | 381 | 199 | 47  | 1   | 0   | 1512   |
| 015 | CLEVELAND FILTER PLANT  | HDD     | 840                 | 644 | 475 | 236 | 89  | 3   | 0   | 0   | 23  | 232 | 494 | 746 | 3782   |
|     |                         | CDD     | 0                   | 0   | 2   | 14  | 109 | 258 | 386 | 354 | 175 | 33  | 2   | 0   | 1333   |
| 016 | COLUMBIA 3 WNW          | HDD     | 913                 | 710 | 545 | 284 | 107 | 6   | 0   | 1   | 42  | 259 | 521 | 795 | 4183   |
|     |                         | CDD     | 0                   | 0   | 1   | 13  | 93  | 238 | 376 | 345 | 171 | 30  | 0   | 0   | 1267   |
| 017 | COOKEVILLE              | HDD     | 914                 | 733 | 547 | 289 | 117 | 7   | 0   | 2   | 37  | 264 | 518 | 801 | 4229   |
|     |                         | CDD     | 0                   | 0   | 0   | 11  | 93  | 231 | 356 | 316 | 151 | 31  | 1   | 0   | 1190   |
| 018 | COPPERHILL              | HDD     | 847                 | 673 | 525 | 285 | 113 | 9   | 0   | 1   | 35  | 260 | 491 | 750 | 3989   |
|     |                         | CDD     | 0                   | 0   | 1   | 10  | 78  | 195 | 327 | 297 | 138 | 24  | 1   | 0   | 1071   |
| 019 | COVINGTON 1 W           | HDD     | 871                 | 659 | 452 | 193 | 57  | 1   | 0   | 0   | 20  | 176 | 449 | 749 | 3627   |
|     |                         | CDD     | 0                   | 0   | 4   | 36  | 173 | 361 | 484 | 421 | 227 | 52  | 4   | 0   | 1762   |
| 020 | CROSSVILLE AP           | HDD     | 928                 | 727 | 557 | 301 | 142 | 14  | 0   | 4   | 62  | 296 | 545 | 813 | 4389   |
|     |                         | CDD     | 0                   | 0   | 0   | 7   | 80  | 175 | 289 | 258 | 122 | 21  | 1   | 0   | 953    |
| 021 | CROSSVILLE EXP STN      | HDD     | 1004                | 799 | 618 | 347 | 162 | 18  | 4   | 8   | 63  | 332 | 585 | 882 | 4822   |
|     |                         | CDD     | 0                   | 0   | 0   | 6   | 65  | 146 | 256 | 218 | 85  | 18  | 1   | 0   | 795    |
| 022 | DAYTON 2 SE             | HDD     | 893                 | 688 | 505 | 239 | 85  | 4   | 0   | 0   | 24  | 238 | 510 | 797 | 3983   |
|     |                         | CDD     | 0                   | 0   | 1   | 10  | 96  | 250 | 370 | 339 | 175 | 29  | 1   | 0   | 1271   |
| 023 | DICKSON                 | HDD     | 907                 | 694 | 498 | 237 | 83  | 3   | 0   | 0   | 33  | 237 | 500 | 788 | 3980   |
|     |                         | CDD     | 0                   | 0   | 3   | 18  | 104 | 251 | 377 | 343 | 178 | 39  | 2   | 0   | 1315   |
| 024 | DOVER 1 W               | HDD     | 958                 | 738 | 520 | 243 | 93  | 5   | 0   | 2   | 41  | 262 | 514 | 827 | 4203   |
|     |                         | CDD     | 0                   | 0   | 5   | 20  | 112 | 266 | 395 | 350 | 175 | 38  | 2   | 0   | 1363   |
| 025 | DRESDEN                 | HDD     | 949                 | 722 | 508 | 232 | 75  | 2   | 0   | 1   | 30  | 225 | 498 | 817 | 4059   |
|     |                         | CDD     | 0                   | 0   | 4   | 22  | 131 | 302 | 423 | 376 | 201 | 44  | 3   | 0   | 1506   |
| 026 | DYERSBURG AP            | HDD     | 826                 | 601 | 395 | 164 | 39  | 0   | 0   | 0   | 17  | 148 | 420 | 715 | 3325   |
|     |                         | CDD     | 0                   | 0   | 9   | 57  | 198 | 388 | 502 | 448 | 247 | 64  | 10  | 0   | 1923   |
| 027 | ELIZABETHTON            | HDD     | 947                 | 765 | 603 | 341 | 135 | 12  | 0   | 2   | 39  | 305 | 559 | 847 | 4555   |
|     |                         | CDD     | 0                   | 0   | 0   | 3   | 63  | 176 | 287 | 249 | 107 | 22  | 0   | 0   | 907    |
| 028 | ERWIN 1 W               | HDD     | 915                 | 722 | 556 | 314 | 141 | 10  | 0   | 1   | 42  | 295 | 537 | 805 | 4338   |
|     |                         | CDD     | 0                   | 0   | 0   | 3   | 69  | 178 | 286 | 257 | 120 | 24  | 1   | 0   | 938    |
| 029 | FAYETTEVILLE WATER PLAN | HDD     | 821                 | 618 | 449 | 222 | 76  | 3   | 0   | 0   | 31  | 233 | 466 | 727 | 3646   |
|     |                         | CDD     | 0                   | 0   | 2   | 17  | 124 | 275 | 394 | 363 | 193 | 51  | 2   | 0   | 1421   |
| 030 | FRANKLIN SEWAGE PLANT   | HDD     | 926                 | 724 | 531 | 275 | 104 | 5   | 0   | 1   | 37  | 262 | 527 | 807 | 4199   |
|     |                         | CDD     | 0                   | 0   | 1   | 13  | 102 | 249 | 385 | 340 | 166 | 37  | 1   | 0   | 1294   |
| 032 | GATLINBURG 2 SW         | HDD     | 892                 | 723 | 560 | 322 | 142 | 17  | 0   | 2   | 49  | 309 | 547 | 799 | 4362   |
|     |                         | CDD     | 0                   | 0   | 0   | 4   | 58  | 153 | 255 | 217 | 91  | 19  | 0   | 0   | 797    |
| 033 | GREENEVILLE EXP STN     | HDD     | 980                 | 790 | 637 | 391 | 169 | 19  | 0   | 3   | 64  | 367 | 620 | 888 | 4928   |
|     |                         | CDD     | 0                   | 0   | 0   | 2   | 45  | 146 | 264 | 220 | 82  | 14  | 0   | 0   | 773    |
| 034 | HUNTINGDON WATER PLANT  | HDD     | 989                 | 770 | 570 | 291 | 113 | 6   | 0   | 2   | 49  | 299 | 577 | 876 | 4542   |
|     |                         | CDD     | 0                   | 0   | 0   | 14  | 96  | 241 | 362 | 313 | 140 | 25  | 0   | 0   | 1191   |
| 035 | JACKSON MCKELLAR-SPES A | HDD     | 842                 | 627 | 432 | 184 | 50  | 1   | 0   | 0   | 19  | 175 | 444 | 730 | 3504   |
|     |                         | CDD     | 0                   | 0   | 8   | 37  | 161 | 349 | 472 | 426 | 232 | 53  | 4   | 0   | 1742   |
| 036 | JACKSON EXP STA         | HDD     | 866                 | 655 | 447 | 199 | 63  | 2   | 0   | 0   | 22  | 191 | 455 | 749 | 3649   |
|     |                         | CDD     | 0                   | 0   | 5   | 29  | 151 | 323 | 451 | 412 | 224 | 49  | 4   | 0   | 1648   |
| 038 | JEFFERSON CITY          | HDD     | 938                 | 727 | 557 | 292 | 98  | 5   | 0   | 0   | 38  | 296 | 542 | 828 | 4321   |
|     |                         | CDD     | 0                   | 0   | 0   | 4   | 94  | 222 | 345 | 294 | 140 | 25  | 1   | 0   | 1125   |



# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

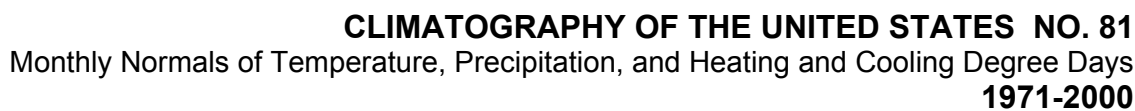
## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days

### 1971-2000

## TENNESSEE

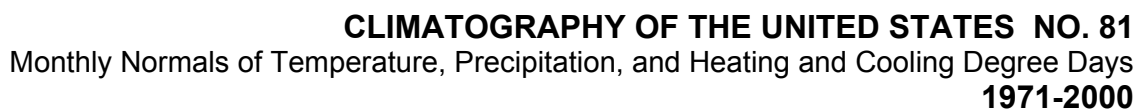
Page 14

| No. | Station Name            | Element | DEGREE DAYS (Total) |      |     |     |     |     |     |     |     |     |     |      | ANNUAL |
|-----|-------------------------|---------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|
|     |                         |         | JAN                 | FEB  | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC  |        |
| 039 | KINGSPORT               | HDD     | 913                 | 725  | 545 | 276 | 91  | 3   | 0   | 0   | 28  | 263 | 526 | 808  | 4178   |
|     |                         | CDD     | 0                   | 0    | 0   | 6   | 90  | 224 | 347 | 302 | 145 | 24  | 1   | 0    | 1139   |
| 041 | KINGSTON SPRINGS        | HDD     | 942                 | 737  | 536 | 277 | 112 | 6   | 0   | 1   | 42  | 268 | 529 | 819  | 4269   |
|     |                         | CDD     | 0                   | 0    | 1   | 13  | 102 | 246 | 373 | 339 | 162 | 29  | 1   | 0    | 1266   |
| 042 | KNOXVILLE EXP STN       | HDD     | 895                 | 705  | 517 | 268 | 97  | 5   | 0   | 0   | 22  | 251 | 509 | 787  | 4056   |
|     |                         | CDD     | 0                   | 0    | 2   | 9   | 99  | 249 | 381 | 345 | 177 | 33  | 2   | 0    | 1297   |
| 043 | KNOXVILLE AP            | HDD*    | 841                 | 652  | 467 | 227 | 65  | 3   | 0   | 0   | 22  | 210 | 470 | 733  | 3690   |
|     |                         | CDD*    | 0                   | 1    | 5   | 27  | 110 | 282 | 408 | 381 | 205 | 28  | 3   | 0    | 1450   |
| 044 | KNOXVILLE UNIV OF TENN  | HDD     | 823                 | 641  | 450 | 196 | 64  | 2   | 0   | 0   | 14  | 196 | 431 | 714  | 3531   |
|     |                         | CDD     | 0                   | 0    | 4   | 23  | 135 | 292 | 422 | 391 | 213 | 45  | 2   | 0    | 1527   |
| 045 | LAFAYETTE               | HDD     | 853                 | 636  | 444 | 203 | 83  | 6   | 0   | 2   | 28  | 203 | 454 | 743  | 3655   |
|     |                         | CDD     | 0                   | 0    | 9   | 35  | 147 | 292 | 413 | 371 | 198 | 49  | 6   | 0    | 1520   |
| 046 | LANCING 6 NW            | HDD     | 970                 | 778  | 613 | 339 | 157 | 14  | 0   | 4   | 62  | 314 | 579 | 856  | 4686   |
|     |                         | CDD     | 0                   | 0    | 0   | 5   | 59  | 160 | 271 | 234 | 95  | 16  | 0   | 0    | 840    |
| 047 | LAWRENCEBURG FILTER PLT | HDD     | 875                 | 685  | 485 | 231 | 88  | 5   | 0   | 1   | 37  | 245 | 493 | 767  | 3912   |
|     |                         | CDD     | 0                   | 0    | 2   | 12  | 98  | 239 | 362 | 328 | 164 | 31  | 1   | 0    | 1237   |
| 048 | LEBANON                 | HDD     | 924                 | 724  | 526 | 264 | 99  | 5   | 0   | 1   | 32  | 254 | 510 | 802  | 4141   |
|     |                         | CDD     | 0                   | 0    | 2   | 18  | 120 | 282 | 413 | 363 | 176 | 36  | 3   | 0    | 1413   |
| 050 | LENOIR CITY             | HDD     | 859                 | 675  | 485 | 232 | 80  | 2   | 0   | 0   | 14  | 222 | 474 | 753  | 3796   |
|     |                         | CDD     | 0                   | 0    | 3   | 15  | 123 | 291 | 423 | 391 | 208 | 44  | 3   | 0    | 1501   |
| 051 | LEWISBURG EXP STN       | HDD     | 919                 | 729  | 536 | 283 | 107 | 6   | 0   | 2   | 40  | 263 | 524 | 817  | 4226   |
|     |                         | CDD     | 0                   | 0    | 0   | 12  | 104 | 254 | 382 | 341 | 167 | 34  | 2   | 0    | 1296   |
| 052 | LEXINGTON               | HDD     | 871                 | 656  | 462 | 208 | 72  | 2   | 0   | 0   | 21  | 206 | 461 | 759  | 3718   |
|     |                         | CDD     | 0                   | 0    | 2   | 24  | 152 | 336 | 456 | 418 | 234 | 57  | 5   | 0    | 1684   |
| 053 | LINDEN 2                | HDD     | 880                 | 673  | 485 | 234 | 84  | 3   | 0   | 0   | 27  | 240 | 488 | 773  | 3887   |
|     |                         | CDD     | 0                   | 0    | 5   | 23  | 124 | 281 | 413 | 369 | 187 | 39  | 1   | 0    | 1442   |
| 055 | LIVINGSTON RADIO WLIV   | HDD     | 927                 | 736  | 548 | 288 | 123 | 5   | 0   | 3   | 41  | 276 | 538 | 779  | 4264   |
|     |                         | CDD     | 0                   | 0    | 0   | 9   | 98  | 228 | 344 | 305 | 143 | 25  | 2   | 0    | 1154   |
| 056 | MARTIN UNIV OF TENN BRA | HDD     | 962                 | 735  | 521 | 245 | 88  | 2   | 0   | 1   | 32  | 224 | 510 | 827  | 4147   |
|     |                         | CDD     | 0                   | 0    | 1   | 19  | 138 | 311 | 442 | 389 | 192 | 36  | 2   | 0    | 1530   |
| 057 | MC MINNVILLE            | HDD     | 814                 | 626  | 447 | 213 | 84  | 3   | 0   | 0   | 28  | 224 | 458 | 709  | 3606   |
|     |                         | CDD     | 0                   | 0    | 4   | 19  | 115 | 256 | 371 | 337 | 177 | 42  | 3   | 0    | 1324   |
| 058 | MEMPHIS INTL AP         | HDD*    | 770                 | 565  | 366 | 144 | 22  | 0   | 0   | 0   | 13  | 121 | 381 | 659  | 3041   |
|     |                         | CDD*    | 1                   | 2    | 15  | 72  | 210 | 426 | 554 | 504 | 307 | 84  | 11  | 1    | 2187   |
| 059 | MEMPHIS WSFO            | HDD     | 840                 | 635  | 435 | 190 | 53  | 1   | 0   | 0   | 16  | 165 | 430 | 726  | 3491   |
|     |                         | CDD     | 0                   | 0    | 5   | 32  | 171 | 368 | 500 | 448 | 253 | 56  | 5   | 0    | 1838   |
| 060 | MILAN EXP STN           | HDD     | 964                 | 749  | 542 | 259 | 96  | 3   | 0   | 2   | 46  | 263 | 539 | 843  | 4306   |
|     |                         | CDD     | 0                   | 0    | 0   | 17  | 118 | 264 | 381 | 326 | 155 | 25  | 1   | 0    | 1287   |
| 061 | MONTEAGLE               | HDD     | 940                 | 723  | 550 | 283 | 121 | 12  | 0   | 2   | 36  | 255 | 524 | 819  | 4265   |
|     |                         | CDD     | 0                   | 0    | 1   | 10  | 80  | 188 | 297 | 274 | 133 | 25  | 3   | 0    | 1011   |
| 063 | MORRISTOWN RADIO WCRK   | HDD     | 916                 | 723  | 544 | 289 | 111 | 5   | 0   | 0   | 26  | 259 | 530 | 811  | 4214   |
|     |                         | CDD     | 0                   | 0    | 0   | 9   | 93  | 227 | 358 | 322 | 152 | 29  | 1   | 0    | 1191   |
| 064 | MOSCOW                  | HDD     | 793                 | 579  | 380 | 157 | 47  | 2   | 0   | 2   | 30  | 192 | 404 | 686  | 3272   |
|     |                         | CDD     | 1                   | 3    | 7   | 36  | 165 | 334 | 452 | 409 | 234 | 61  | 6   | 0    | 1708   |
| 065 | MOUNTAIN CITY 2         | HDD     | 1046                | 851  | 691 | 440 | 214 | 46  | 8   | 20  | 108 | 421 | 662 | 940  | 5447   |
|     |                         | CDD     | 0                   | 0    | 0   | 0   | 28  | 88  | 168 | 138 | 52  | 6   | 0   | 0    | 480    |
| 066 | MT LECONTE              | HDD     | 1247                | 1080 | 986 | 720 | 499 | 281 | 196 | 238 | 370 | 619 | 879 | 1135 | 8250   |
|     |                         | CDD     | 0                   | 0    | 0   | 0   | 0   | 0   | 3   | 2   | 0   | 0   | 0   | 0    | 5      |
| 067 | MOUNT PLEASANT 1 N      | HDD     | 877                 | 677  | 472 | 211 | 74  | 3   | 0   | 1   | 30  | 226 | 483 | 777  | 3831   |
|     |                         | CDD     | 0                   | 0    | 4   | 28  | 134 | 305 | 431 | 385 | 199 | 42  | 2   | 0    | 1530   |
| 068 | MURFREESBORO 5 N        | HDD     | 918                 | 723  | 521 | 259 | 93  | 4   | 0   | 1   | 32  | 252 | 503 | 801  | 4107   |
|     |                         | CDD     | 0                   | 0    | 2   | 15  | 114 | 272 | 406 | 362 | 179 | 37  | 1   | 0    | 1388   |
| 069 | NASHVILLE INTL AP       | HDD*    | 859                 | 664  | 462 | 217 | 56  | 2   | 0   | 0   | 24  | 189 | 460 | 744  | 3677   |
|     |                         | CDD*    | 0                   | 0    | 9   | 37  | 136 | 321 | 453 | 416 | 229 | 46  | 5   | 0    | 1652   |
| 070 | NEAPOLIS EXP STN        | HDD     | 871                 | 675  | 477 | 235 | 80  | 3   | 0   | 1   | 28  | 228 | 473 | 756  | 3827   |
|     |                         | CDD     | 0                   | 0    | 3   | 24  | 126 | 292 | 424 | 379 | 193 | 39  | 3   | 0    | 1483   |
| 071 | NEWBERN                 | HDD     | 937                 | 713  | 505 | 220 | 68  | 1   | 0   | 1   | 28  | 210 | 493 | 805  | 3981   |
|     |                         | CDD     | 0                   | 0    | 3   | 28  | 147 | 324 | 448 | 388 | 196 | 36  | 1   | 0    | 1571   |
| 073 | NEWPORT 1 NW            | HDD     | 873                 | 688  | 507 | 255 | 101 | 4   | 0   | 0   | 35  | 276 | 527 | 792  | 4058   |
|     |                         | CDD     | 0                   | 0    | 0   | 10  | 100 | 236 | 353 | 312 | 148 | 27  | 1   | 0    | 1187   |
| 074 | NORRIS                  | HDD     | 967                 | 770  | 585 | 318 | 139 | 15  | 2   | 1   | 42  | 302 | 574 | 864  | 4579   |
|     |                         | CDD     | 0                   | 0    | 0   | 2   | 69  | 179 | 292 | 258 | 117 | 18  | 0   | 0    | 935    |
| 076 | OAK RIDGE ATDD          | HDD*    | 882                 | 696  | 510 | 254 | 80  | 6   | 0   | 0   | 30  | 230 | 518 | 787  | 3993   |
|     |                         | CDD*    | 0                   | 0    | 2   | 19  | 95  | 254 | 380 | 347 | 180 | 23  | 1   | 0    | 1301   |
| 078 | ONEIDA                  | HDD     | 978                 | 784  | 618 | 352 | 173 | 21  | 1   | 10  | 61  | 333 | 584 | 874  | 4789   |
|     |                         | CDD     | 0                   | 0    | 0   | 4   | 68  | 167 | 280 | 245 | 102 | 15  | 0   | 0    | 881    |
| 080 | PARIS 2 SE              | HDD     | 967                 | 746  | 534 | 256 | 93  | 4   | 0   | 2   | 42  | 251 | 523 | 831  | 4249   |
|     |                         | CDD     | 0                   | 0    | 3   | 18  | 110 | 266 | 394 | 354 | 179 | 34  | 2   | 0    | 1360   |



## Page 15

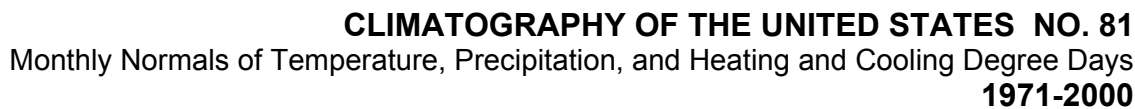
|     |                        | DEGREE DAYS (Total) |     |     |     |     |     |     |     |     |     |     |     |     |        |
|-----|------------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| No. | Station Name           | Element             | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
| 081 | PIKEVILLE              | HDD                 | 843 | 652 | 470 | 229 | 89  | 4   | 0   | 0   | 26  | 234 | 493 | 756 | 3796   |
|     |                        | CDD                 | 0   | 0   | 2   | 11  | 102 | 235 | 358 | 322 | 166 | 33  | 2   | 0   | 1231   |
| 082 | PORTLAND SEWAGE PLANT  | HDD                 | 947 | 732 | 520 | 242 | 90  | 3   | 0   | 0   | 28  | 227 | 496 | 818 | 4103   |
|     |                        | CDD                 | 0   | 0   | 0   | 20  | 133 | 292 | 426 | 381 | 198 | 41  | 2   | 0   | 1493   |
| 083 | PULASKI WATER PLANT    | HDD                 | 871 | 675 | 474 | 221 | 74  | 3   | 0   | 0   | 24  | 216 | 473 | 753 | 3784   |
|     |                        | CDD                 | 0   | 0   | 2   | 16  | 114 | 274 | 406 | 374 | 189 | 38  | 2   | 0   | 1415   |
| 084 | RIPLEY                 | HDD                 | 881 | 661 | 459 | 198 | 64  | 1   | 0   | 0   | 19  | 172 | 447 | 765 | 3667   |
|     |                        | CDD                 | 0   | 0   | 5   | 34  | 162 | 339 | 466 | 416 | 228 | 60  | 5   | 0   | 1715   |
| 085 | ROCKWOOD 2             | HDD                 | 926 | 741 | 566 | 288 | 121 | 8   | 0   | 1   | 40  | 285 | 551 | 827 | 4354   |
|     |                        | CDD                 | 0   | 0   | 0   | 8   | 84  | 214 | 332 | 293 | 143 | 26  | 1   | 0   | 1101   |
| 086 | ROGERSVILLE 1 NE       | HDD                 | 898 | 697 | 510 | 262 | 111 | 10  | 0   | 1   | 37  | 274 | 524 | 798 | 4122   |
|     |                        | CDD                 | 0   | 0   | 0   | 6   | 91  | 206 | 318 | 286 | 141 | 30  | 1   | 0   | 1079   |
| 087 | SAMBURG WILDLIFE REF   | HDD                 | 981 | 747 | 526 | 247 | 78  | 1   | 0   | 1   | 34  | 224 | 502 | 823 | 4164   |
|     |                        | CDD                 | 0   | 0   | 1   | 23  | 129 | 308 | 437 | 370 | 182 | 32  | 2   | 0   | 1484   |
| 088 | SAVANNAH 6 SW          | HDD                 | 833 | 630 | 406 | 170 | 51  | 2   | 0   | 0   | 21  | 179 | 424 | 714 | 3430   |
|     |                        | CDD                 | 0   | 0   | 10  | 36  | 150 | 324 | 444 | 409 | 228 | 62  | 7   | 0   | 1670   |
| 089 | SELMER                 | HDD                 | 855 | 649 | 447 | 200 | 70  | 3   | 0   | 0   | 26  | 200 | 454 | 739 | 3643   |
|     |                        | CDD                 | 0   | 0   | 6   | 23  | 142 | 304 | 430 | 388 | 213 | 45  | 3   | 0   | 1554   |
| 090 | SEVIERVILLE 1 SE       | HDD                 | 918 | 721 | 543 | 277 | 100 | 5   | 0   | 1   | 36  | 280 | 542 | 817 | 4240   |
|     |                        | CDD                 | 0   | 0   | 0   | 6   | 93  | 231 | 345 | 310 | 156 | 32  | 1   | 0   | 1174   |
| 091 | SHELBYVILLE WATER DEPT | HDD                 | 853 | 658 | 462 | 223 | 77  | 3   | 0   | 0   | 25  | 216 | 475 | 747 | 3739   |
|     |                        | CDD                 | 0   | 0   | 3   | 16  | 119 | 277 | 404 | 374 | 195 | 42  | 3   | 0   | 1433   |
| 092 | SMITHVILLE 2 SE        | HDD                 | 952 | 766 | 576 | 310 | 125 | 8   | 0   | 1   | 48  | 297 | 558 | 835 | 4476   |
|     |                        | CDD                 | 0   | 0   | 0   | 5   | 84  | 216 | 332 | 292 | 134 | 28  | 1   | 0   | 1092   |
| 093 | SPARTA                 | HDD                 | 817 | 640 | 456 | 215 | 97  | 5   | 0   | 0   | 28  | 226 | 464 | 714 | 3662   |
|     |                        | CDD                 | 0   | 0   | 7   | 18  | 126 | 262 | 380 | 341 | 177 | 42  | 7   | 0   | 1360   |
| 094 | SPRINGFIELD EXP STN    | HDD                 | 959 | 751 | 549 | 278 | 110 | 6   | 0   | 2   | 38  | 257 | 521 | 829 | 4300   |
|     |                        | CDD                 | 0   | 0   | 1   | 18  | 111 | 258 | 381 | 334 | 163 | 36  | 3   | 0   | 1305   |
| 096 | TAZEWELL               | HDD                 | 989 | 799 | 634 | 362 | 160 | 17  | 0   | 2   | 51  | 343 | 606 | 883 | 4846   |
|     |                        | CDD                 | 0   | 0   | 0   | 3   | 73  | 177 | 297 | 261 | 115 | 22  | 0   | 0   | 948    |
| 097 | TULLAHOMA              | HDD                 | 871 | 677 | 495 | 248 | 86  | 3   | 0   | 1   | 31  | 229 | 491 | 763 | 3895   |
|     |                        | CDD                 | 0   | 0   | 1   | 14  | 96  | 249 | 372 | 342 | 175 | 32  | 1   | 0   | 1282   |
| 098 | UNION CITY             | HDD                 | 975 | 749 | 539 | 257 | 86  | 2   | 0   | 2   | 36  | 245 | 526 | 839 | 4256   |
|     |                        | CDD                 | 0   | 0   | 0   | 20  | 131 | 301 | 420 | 356 | 170 | 32  | 1   | 0   | 1431   |
| 099 | WAVERLY                | HDD                 | 942 | 731 | 536 | 256 | 95  | 6   | 0   | 1   | 40  | 268 | 538 | 824 | 4237   |
|     |                        | CDD                 | 0   | 0   | 1   | 15  | 117 | 265 | 394 | 349 | 163 | 35  | 1   | 0   | 1340   |
| 100 | WAYNESBORO             | HDD                 | 897 | 702 | 516 | 263 | 105 | 4   | 0   | 1   | 35  | 255 | 508 | 790 | 4076   |
|     |                        | CDD                 | 0   | 0   | 1   | 16  | 104 | 248 | 378 | 337 | 170 | 36  | 1   | 0   | 1291   |
| 101 | WINCHESTER 1 E         | HDD                 | 794 | 600 | 422 | 195 | 72  | 3   | 0   | 0   | 24  | 195 | 428 | 687 | 3420   |
|     |                        | CDD                 | 0   | 0   | 6   | 22  | 124 | 280 | 385 | 364 | 195 | 43  | 5   | 0   | 1424   |
| 102 | WOODBURY 1 WNW         | HDD                 | 907 | 719 | 525 | 269 | 99  | 4   | 0   | 1   | 37  | 258 | 521 | 801 | 4141   |
|     |                        | CDD                 | 0   | 0   | 1   | 10  | 94  | 247 | 373 | 339 | 169 | 32  | 1   | 0   | 1266   |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |
|     |                        |                     |     |     |     |     |     |     |     |     |     |     |     |     |        |



## Page 16

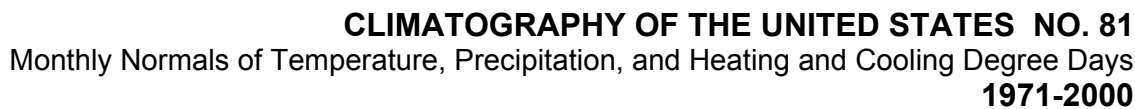
|     |               |                         | NORMALS STATISTICS |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|---------------|-------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name  | Element                 | JAN                | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 001 | ALLARDT       | HIGHEST MEAN            | 44.6               | 46.4 | 52.6 | 59.7 | 68.0 | 72.8 | 77.5 | 76.4 | 71.5 | 63.0 | 54.2 | 47.4 | 77.5   |
|     |               | MEDIAN                  | 34.5               | 38.5 | 46.8 | 54.6 | 62.3 | 70.0 | 73.2 | 72.0 | 66.3 | 55.5 | 46.0 | 38.3 | 54.6   |
|     |               | LOWEST MEAN             | 20.3               | 26.6 | 39.8 | 49.6 | 57.8 | 65.7 | 70.6 | 68.5 | 62.3 | 49.2 | 38.4 | 25.9 | 20.3   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 1973 | 1981 | 1987 | 1998 | 1980 | 1983 | 1998 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1979 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.1               | -1.0 | -0.9 | -0.8 | -0.6 | -0.4 | -0.3 | -0.4 | -0.5 | -0.7 | -0.9 | -0.9 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -0.7               | -0.7 | -0.9 | -1.0 | -0.9 | -0.5 | -0.5 | -0.5 | -0.5 | -0.6 | -0.6 | -0.7 |        |
| 002 | AMES PLANTATI | HIGHEST MEAN            | 45.3               | 49.9 | 55.5 | 64.6 | 73.2 | 80.2 | 84.1 | 82.6 | 77.7 | 66.6 | 56.6 | 51.2 | 84.1   |
|     |               | MEDIAN                  | 38.4               | 41.4 | 50.7 | 59.0 | 67.3 | 76.1 | 79.2 | 77.5 | 71.6 | 60.7 | 50.0 | 41.0 | 59.3   |
|     |               | LOWEST MEAN             | 23.9               | 28.1 | 43.7 | 52.7 | 61.6 | 70.4 | 76.6 | 74.5 | 65.9 | 54.2 | 39.3 | 30.4 | 23.9   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1973 | 1981 | 1987 | 1998 | 1980 | 1980 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1980 | 1983 | 1976 | 1974 | 1972 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.1  | -0.1 | -0.2 | 0.3  | 0.4  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 003 | ATHENS        | HIGHEST MEAN            | 47.2               | 47.3 | 53.8 | 62.0 | 71.1 | 75.4 | 80.9 | 79.6 | 75.6 | 64.5 | 56.5 | 47.7 | 80.9   |
|     |               | MEDIAN                  | 36.5               | 40.4 | 48.0 | 56.5 | 64.7 | 73.1 | 76.5 | 75.4 | 69.8 | 58.3 | 47.8 | 39.2 | 57.3   |
|     |               | LOWEST MEAN             | 23.9               | 31.4 | 42.5 | 51.1 | 60.7 | 68.4 | 73.7 | 72.2 | 66.3 | 52.4 | 40.4 | 31.1 | 23.9   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1997 | 1999 | 1987 | 1981 | 1993 | 1980 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1979 | 1992 | 1976 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.0  | 1.1  | 0.0  | 0.0  | -0.2 | 0.0  | -0.2 | -0.3 | 0.3  | 0.4  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 005 | BOLIVAR WATER | HIGHEST MEAN            | 45.4               | 49.6 | 56.5 | 65.4 | 72.8 | 80.2 | 84.3 | 82.6 | 77.6 | 66.4 | 56.1 | 50.2 | 84.3   |
|     |               | MEDIAN                  | 37.6               | 42.0 | 50.6 | 59.1 | 67.1 | 76.0 | 79.2 | 77.5 | 71.6 | 59.9 | 50.0 | 41.2 | 59.1   |
|     |               | LOWEST MEAN             | 25.2               | 29.9 | 43.6 | 53.6 | 61.9 | 71.2 | 76.8 | 73.6 | 65.4 | 53.4 | 39.7 | 30.5 | 25.2   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1973 | 1981 | 1987 | 1998 | 1980 | 1983 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1972 | 1992 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.1  | -0.1 | -0.2 | 0.3  | 0.4  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 007 | BRISTOL TRI C | HIGHEST MEAN            | 45.1               | 46.4 | 53.0 | 59.7 | 68.6 | 74.4 | 78.6 | 77.3 | 71.6 | 62.5 | 54.0 | 45.1 | 78.6   |
|     |               | MEDIAN                  | 33.9               | 38.3 | 46.4 | 54.3 | 63.1 | 70.9 | 74.1 | 72.4 | 66.6 | 55.3 | 45.5 | 37.2 | 54.7   |
|     |               | LOWEST MEAN             | 20.9               | 28.0 | 41.9 | 50.0 | 58.3 | 66.1 | 70.2 | 70.0 | 62.3 | 48.6 | 37.2 | 26.7 | 20.9   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 1973 | 1981 | 1987 | 1981 | 1993 | 1995 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1981 | 1983 | 1997 | 1972 | 1979 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
| 008 | BROWNSVILLE   | HIGHEST MEAN            | 44.4               | 50.0 | 57.3 | 66.7 | 74.3 | 80.4 | 85.2 | 83.5 | 77.4 | 68.6 | 56.4 | 50.4 | 85.2   |
|     |               | MEDIAN                  | 37.6               | 42.6 | 51.1 | 60.0 | 68.8 | 77.4 | 80.2 | 78.7 | 72.3 | 61.1 | 50.8 | 41.6 | 60.0   |
|     |               | LOWEST MEAN             | 25.1               | 29.2 | 45.2 | 53.6 | 63.4 | 72.7 | 78.3 | 74.1 | 66.7 | 55.5 | 42.1 | 30.3 | 25.1   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1974 | 1981 | 1987 | 1998 | 1980 | 1983 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1972 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.7                | 1.2  | -0.1 | -0.5 | -0.4 | -0.3 | -0.3 | -0.4 | -0.3 | -0.4 | 0.5  | 0.4  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 009 | CARTHAGE      | HIGHEST MEAN            | 44.4               | 47.2 | 53.6 | 62.9 | 70.7 | 76.3 | 81.4 | 81.2 | 75.1 | 64.6 | 55.0 | 47.5 | 81.4   |
|     |               | MEDIAN                  | 35.5               | 38.7 | 47.5 | 56.2 | 64.7 | 73.6 | 77.6 | 76.3 | 69.8 | 58.7 | 48.5 | 39.6 | 57.1   |
|     |               | LOWEST MEAN             | 20.9               | 28.2 | 41.3 | 50.9 | 59.6 | 69.5 | 74.4 | 72.5 | 65.8 | 51.7 | 40.3 | 28.1 | 20.9   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1981 | 1980 | 1980 | 1980 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1994 | 1974 | 1984 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 1.9  | 2.0  | 1.3  | 1.0  | 0.1  | 0.5  | 0.4  | 0.3  | 1.0  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 010 | CELINA        | HIGHEST MEAN            | 45.9               | 46.8 | 53.9 | 61.0 | 71.3 | 75.8 | 80.3 | 79.8 | 73.3 | 65.4 | 56.6 | 47.1 | 80.3   |
|     |               | MEDIAN                  | 35.5               | 39.0 | 47.7 | 55.3 | 64.2 | 72.9 | 76.8 | 75.0 | 68.7 | 57.6 | 48.1 | 39.2 | 56.6   |
|     |               | LOWEST MEAN             | 19.2               | 27.7 | 41.6 | 49.8 | 59.3 | 68.5 | 73.3 | 71.3 | 64.7 | 51.1 | 37.6 | 28.3 | 19.2   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1987 | 1993 | 1995 | 1998 | 1984 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1976 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 1.8  | 2.0  | 1.3  | 1.1  | 0.0  | 0.5  | 0.4  | 0.3  | 1.0  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.5  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 011 | CENTERVILLE W | HIGHEST MEAN            | 46.2               | 50.4 | 57.4 | 64.3 | 72.0 | 76.8 | 81.4 | 80.9 | 74.5 | 67.2 | 58.3 | 49.0 | 81.4   |
|     |               | MEDIAN                  | 38.0               | 41.5 | 50.6 | 58.8 | 66.5 | 74.4 | 77.5 | 76.4 | 70.0 | 59.3 | 49.5 | 40.8 | 58.5   |
|     |               | LOWEST MEAN             | 24.2               | 28.6 | 45.3 | 55.4 | 62.6 | 70.3 | 75.4 | 72.5 | 66.4 | 53.5 | 39.4 | 30.8 | 24.2   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1999 | 1987 | 1998 | 1993 | 1983 | 1986 | 1984 | 1985 | 1982 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1975 | 1992 | 1975 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.4               | -1.2 | -1.0 | -0.8 | -0.6 | -0.4 | -0.3 | -0.4 | -0.7 | -0.9 | -1.3 | -1.2 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -2.0               | -2.5 | -2.3 | -2.3 | -1.7 | -1.3 | -1.0 | -1.0 | -1.6 | -1.7 | -1.6 | -1.8 |        |
| 012 | CHATTANOOGA A | HIGHEST MEAN            | 49.3               | 51.5 | 57.1 | 64.7 | 73.1 | 78.4 | 85.2 | 82.5 | 77.2 | 66.7 | 58.8 | 49.4 | 85.2   |
|     |               | MEDIAN                  | 39.0               | 43.2 | 51.8 | 59.2 | 67.4 | 76.4 | 79.5 | 78.8 | 71.8 | 60.6 | 50.3 | 41.9 | 59.7   |
|     |               | LOWEST MEAN             | 28.5               | 35.5 | 45.2 | 54.3 | 63.5 | 68.4 | 75.7 | 73.5 | 68.0 | 54.9 | 42.7 | 35.0 | 28.5   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1997 | 1981 | 1987 | 1998 | 1993 | 1993 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1974 | 1992 | 1984 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |





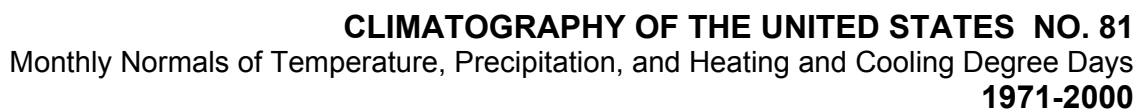
## Page 17

|     |               |                         | NORMALS STATISTICS |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|---------------|-------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name  | Element                 | JAN                | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 013 | CHEATHAM LOCK | HIGHEST MEAN            | 43.9               | 47.5 | 53.7 | 60.6 | 71.7 | 75.6 | 81.5 | 80.6 | 75.3 | 63.9 | 53.4 | 47.2 | 81.5   |
|     |               | MEDIAN                  | 34.6               | 38.0 | 47.0 | 54.9 | 63.3 | 72.4 | 77.3 | 75.2 | 68.6 | 56.8 | 46.6 | 39.0 | 56.2   |
|     |               | LOWEST MEAN             | 21.4               | 24.7 | 41.8 | 49.2 | 55.8 | 67.6 | 73.8 | 72.3 | 63.1 | 50.5 | 39.5 | 25.7 | 21.4   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 1974 | 1999 | 1987 | 1986 | 1986 | 1983 | 1998 | 1971 | 1999 | 1984 | 1986   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1993 | 1997 | 1997 | 1974 | 1996 | 1992 | 1989 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 2.1  | 1.2  | 1.1  | 0.8  | 0.5  | 0.4  | 0.8  | 1.0  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 014 | CLARKSVILLE S | HIGHEST MEAN            | 44.1               | 47.8 | 55.0 | 63.3 | 71.9 | 77.8 | 83.6 | 82.4 | 77.0 | 65.5 | 55.0 | 47.8 | 83.6   |
|     |               | MEDIAN                  | 35.8               | 40.1 | 49.5 | 57.7 | 66.1 | 74.9 | 78.9 | 77.2 | 70.6 | 59.2 | 47.8 | 39.6 | 57.7   |
|     |               | LOWEST MEAN             | 20.8               | 26.2 | 43.1 | 49.5 | 61.3 | 69.7 | 75.7 | 72.7 | 65.6 | 52.0 | 39.3 | 27.7 | 20.8   |
|     |               | HIGHEST MEAN YEAR       | 1998               | 1990 | 1973 | 1981 | 1991 | 1998 | 1993 | 1995 | 1998 | 1971 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1971 | 1974 | 1976 | 1982 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
| 015 | CLEVELAND FIL | HIGHEST MEAN            | 48.8               | 48.9 | 54.8 | 63.1 | 71.0 | 76.6 | 81.1 | 80.5 | 74.1 | 66.4 | 57.6 | 48.2 | 81.1   |
|     |               | MEDIAN                  | 37.9               | 42.4 | 49.6 | 57.1 | 65.4 | 73.9 | 77.6 | 76.1 | 69.9 | 58.5 | 48.3 | 40.8 | 58.1   |
|     |               | LOWEST MEAN             | 26.1               | 34.1 | 44.0 | 52.5 | 61.8 | 69.0 | 74.5 | 72.5 | 66.5 | 53.3 | 41.0 | 32.6 | 26.1   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1997 | 1999 | 1991 | 1986 | 1980 | 1980 | 1998 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1984 | 1992 | 1976 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
| 016 | COLUMBIA 3 WN | HIGHEST MEAN            | 43.9               | 48.1 | 53.7 | 63.0 | 71.2 | 75.8 | 80.9 | 80.6 | 74.3 | 65.0 | 53.9 | 48.6 | 80.9   |
|     |               | MEDIAN                  | 35.9               | 38.7 | 47.4 | 56.0 | 63.8 | 73.1 | 77.2 | 75.7 | 69.0 | 57.6 | 47.6 | 39.5 | 56.8   |
|     |               | LOWEST MEAN             | 23.4               | 29.3 | 41.8 | 49.2 | 59.9 | 68.3 | 73.8 | 71.9 | 64.8 | 51.6 | 39.7 | 28.6 | 23.4   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1986 | 1983 | 1998 | 1984 | 1985 | 1984 | 1986   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1984 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 1.9  | 2.0  | 1.2  | 1.0  | 0.8  | 0.5  | 0.3  | 0.7  | 0.9  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 017 | COOKEVILLE    | HIGHEST MEAN            | 45.3               | 47.0 | 53.9 | 61.6 | 70.1 | 76.1 | 79.9 | 79.7 | 74.1 | 64.6 | 55.5 | 48.0 | 79.9   |
|     |               | MEDIAN                  | 35.8               | 38.6 | 48.0 | 55.7 | 64.2 | 72.6 | 76.3 | 74.9 | 68.4 | 57.6 | 47.9 | 39.2 | 56.4   |
|     |               | LOWEST MEAN             | 20.9               | 26.7 | 40.4 | 50.7 | 59.6 | 68.4 | 73.2 | 70.8 | 65.3 | 51.1 | 39.2 | 28.8 | 20.9   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1980 | 1995 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1997 | 1997 | 1974 | 1976 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 2.0  | 2.0  | 1.3  | 1.0  | 0.1  | 0.5  | 0.4  | 0.3  | 1.0  | 1.1  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 018 | COPPERHILL    | HIGHEST MEAN            | 50.9               | 47.3 | 53.8 | 61.5 | 69.2 | 74.1 | 79.0 | 78.6 | 73.0 | 64.8 | 56.9 | 51.9 | 79.0   |
|     |               | MEDIAN                  | 38.0               | 41.3 | 47.9 | 56.0 | 63.7 | 71.7 | 75.5 | 74.1 | 68.3 | 56.8 | 48.6 | 40.9 | 57.0   |
|     |               | LOWEST MEAN             | 26.4               | 33.6 | 41.2 | 50.2 | 58.8 | 67.2 | 72.0 | 71.0 | 64.6 | 50.8 | 42.1 | 31.0 | 26.4   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1974 | 1977 | 1987 | 1986 | 1980 | 1983 | 1978 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1997 | 1997 | 1972 | 1976 | 1992 | 1999 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.2                | 1.0  | 1.0  | 0.0  | 0.0  | -0.2 | 0.0  | -0.2 | -0.3 | 0.3  | 0.4  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 019 | COVINGTON 1 W | HIGHEST MEAN            | 44.9               | 49.6 | 55.8 | 66.3 | 74.6 | 81.1 | 85.5 | 83.2 | 77.6 | 67.5 | 56.2 | 49.7 | 85.5   |
|     |               | MEDIAN                  | 37.3               | 41.8 | 50.8 | 59.7 | 68.6 | 77.0 | 80.3 | 78.2 | 72.5 | 61.3 | 50.5 | 41.1 | 59.6   |
|     |               | LOWEST MEAN             | 23.9               | 27.8 | 44.7 | 53.2 | 62.6 | 71.8 | 77.6 | 74.2 | 66.0 | 55.3 | 41.4 | 30.3 | 23.9   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1973 | 1981 | 1987 | 1998 | 1980 | 1980 | 1998 | 1971 | 1999 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1980 | 1983 | 1976 | 1974 | 1984 | 1992 | 1974 | 1976 | 1976 | 1983 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.0  | -0.1 | -0.2 | 0.3  | 0.4  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 020 | CROSSVILLE AP | HIGHEST MEAN            | 45.6               | 46.9 | 54.0 | 60.3 | 68.4 | 73.8 | 79.5 | 77.2 | 72.3 | 63.8 | 54.6 | 48.4 | 79.5   |
|     |               | MEDIAN                  | 34.9               | 39.3 | 47.2 | 54.9 | 63.2 | 70.8 | 74.3 | 72.9 | 66.7 | 56.2 | 46.4 | 38.6 | 55.6   |
|     |               | LOWEST MEAN             | 22.1               | 28.7 | 39.7 | 50.0 | 57.9 | 66.0 | 70.9 | 69.5 | 61.4 | 49.7 | 39.3 | 28.6 | 22.1   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 1973 | 1994 | 1987 | 1994 | 1993 | 1995 | 1998 | 1984 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1976 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
| 021 | CROSSVILLE EX | HIGHEST MEAN            | 43.7               | 43.3 | 50.7 | 58.7 | 67.8 | 72.0 | 77.8 | 76.1 | 70.1 | 62.6 | 53.8 | 46.1 | 77.8   |
|     |               | MEDIAN                  | 33.0               | 36.0 | 45.3 | 53.4 | 62.2 | 69.6 | 72.8 | 71.3 | 65.2 | 54.5 | 45.4 | 36.3 | 53.7   |
|     |               | LOWEST MEAN             | 18.0               | 26.1 | 37.9 | 48.5 | 57.6 | 64.9 | 70.0 | 67.4 | 62.5 | 47.8 | 37.4 | 24.7 | 18.0   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 1973 | 1981 | 1991 | 1986 | 1993 | 1995 | 1998 | 1984 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1989 | 1974 | 1976 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.9  | 1.9  | 1.2  | 1.0  | 0.1  | 0.4  | 0.3  | 0.3  | 0.9  | 1.1  | 0.9  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 022 | DAYTON 2 SE   | HIGHEST MEAN            | 46.0               | 46.6 | 53.7 | 62.3 | 70.1 | 76.6 | 81.8 | 81.3 | 74.8 | 65.3 | 56.1 | 46.8 | 81.8   |
|     |               | MEDIAN                  | 36.4               | 40.3 | 49.1 | 57.1 | 64.8 | 73.1 | 76.9 | 75.6 | 69.8 | 57.8 | 48.1 | 39.0 | 57.4   |
|     |               | LOWEST MEAN             | 24.1               | 32.4 | 42.9 | 52.4 | 60.7 | 69.4 | 74.1 | 71.4 | 66.9 | 51.6 | 41.1 | 31.0 | 24.1   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 2000 | 1981 | 1987 | 1986 | 1980 | 1980 | 1980 | 1984 | 1985 | 1971 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1984 | 1992 | 1996 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.1  | 1.1  | 0.0  | 0.0  | -0.3 | -0.1 | -0.2 | -0.3 | 0.3  | 0.4  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |



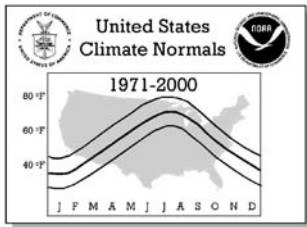
## Page 18

|     |               |                         | NORMALS STATISTICS |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|---------------|-------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name  | Element                 | JAN                | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 023 | DICKSON       | HIGHEST MEAN            | 44.0               | 49.8 | 55.7 | 63.3 | 70.8 | 75.9 | 80.6 | 80.8 | 75.9 | 65.6 | 55.6 | 48.3 | 80.8   |
|     |               | MEDIAN                  | 36.1               | 40.2 | 49.4 | 57.7 | 65.1 | 73.2 | 76.9 | 75.6 | 69.2 | 58.2 | 48.6 | 40.2 | 57.4   |
|     |               | LOWEST MEAN             | 23.9               | 28.2 | 43.3 | 51.8 | 61.2 | 69.6 | 74.5 | 72.5 | 65.6 | 52.0 | 40.8 | 28.7 | 23.9   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1973 | 1981 | 1987 | 1971 | 1986 | 1983 | 1986 | 1984 | 1985 | 1984 | 1983   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1996 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -0.8               | -0.9 | -0.7 | -0.6 | -0.5 | -0.4 | -0.3 | -0.3 | -0.5 | -0.6 | -0.7 | -0.7 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -0.3               | -0.4 | -0.3 | -0.3 | -0.2 | -0.2 | -0.1 | -0.2 | -0.3 | -0.3 | -0.3 | -0.3 |        |
| 024 | DOVER 1 W     | HIGHEST MEAN            | 42.9               | 46.2 | 56.1 | 64.2 | 71.1 | 76.8 | 81.8 | 81.3 | 75.8 | 66.2 | 54.7 | 47.9 | 81.8   |
|     |               | MEDIAN                  | 35.1               | 38.5 | 48.9 | 57.5 | 65.9 | 73.9 | 77.9 | 76.2 | 69.5 | 57.8 | 48.4 | 38.6 | 56.9   |
|     |               | LOWEST MEAN             | 19.4               | 24.0 | 41.6 | 51.9 | 60.2 | 69.0 | 74.8 | 71.8 | 64.3 | 51.3 | 37.9 | 26.8 | 19.4   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1990 | 1973 | 1981 | 1987 | 1971 | 1986 | 1983 | 1998 | 1971 | 1985 | 1984 | 1986   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1980 | 1983 | 1976 | 1974 | 1971 | 1992 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.7                | 1.2  | -0.1 | -0.6 | -0.5 | -0.4 | -0.3 | -0.5 | -0.4 | -0.4 | -0.6 | 0.4  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 025 | DRESDEN       | HIGHEST MEAN            | 43.4               | 47.5 | 55.9 | 64.2 | 72.6 | 78.4 | 82.9 | 82.6 | 75.9 | 66.8 | 55.0 | 48.1 | 82.9   |
|     |               | MEDIAN                  | 35.1               | 39.2 | 48.9 | 57.8 | 66.6 | 75.4 | 78.5 | 76.7 | 70.4 | 58.6 | 48.8 | 38.8 | 57.7   |
|     |               | LOWEST MEAN             | 21.3               | 25.6 | 41.7 | 51.9 | 61.8 | 70.5 | 75.5 | 73.1 | 64.6 | 53.2 | 38.8 | 27.4 | 21.3   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1973 | 1981 | 1987 | 1984 | 1980 | 1983 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1980 | 1983 | 1976 | 1974 | 1971 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.7                | 1.2  | -0.1 | -0.6 | -0.4 | -0.4 | -0.3 | -0.5 | -0.4 | -0.4 | 0.5  | 0.4  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 026 | DYERSBURG AP  | HIGHEST MEAN            | 48.0               | 52.8 | 57.3 | 68.2 | 76.1 | 80.9 | 86.6 | 84.7 | 77.9 | 68.2 | 58.3 | 51.6 | 86.6   |
|     |               | MEDIAN                  | 39.3               | 43.9 | 52.9 | 61.4 | 70.1 | 78.1 | 80.9 | 79.1 | 72.6 | 62.0 | 52.3 | 42.7 | 61.1   |
|     |               | LOWEST MEAN             | 25.3               | 29.5 | 46.7 | 54.0 | 65.3 | 73.6 | 77.3 | 73.7 | 67.2 | 57.1 | 43.6 | 31.3 | 25.3   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1976 | 1981 | 1987 | 1998 | 1980 | 1983 | 1986 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1997 | 1997 | 1974 | 1996 | 1992 | 1974 | 1976 | 1976 | 2000 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.2               | -1.1 | -0.9 | -0.8 | -0.5 | -0.4 | -0.3 | -0.4 | -0.6 | -0.8 | -1.2 | -1.0 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -0.8               | -1.3 | -1.0 | -1.0 | -0.9 | -0.7 | -0.5 | -0.5 | -0.9 | -0.7 | -1.0 | -0.7 |        |
| 027 | ELIZABETHTON  | HIGHEST MEAN            | 45.4               | 43.6 | 50.7 | 58.6 | 67.4 | 73.5 | 78.2 | 77.0 | 72.4 | 63.0 | 54.3 | 45.5 | 78.2   |
|     |               | MEDIAN                  | 34.5               | 37.6 | 45.9 | 53.4 | 62.9 | 70.2 | 74.6 | 72.6 | 67.1 | 56.4 | 46.6 | 37.4 | 55.0   |
|     |               | LOWEST MEAN             | 22.3               | 27.1 | 40.8 | 49.7 | 57.7 | 66.6 | 71.2 | 69.1 | 64.5 | 48.3 | 39.6 | 24.8 | 22.3   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 1997 | 1999 | 1998 | 1981 | 1993 | 1995 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1997 | 1972 | 1979 | 1989 | 1976 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.9  | 1.9  | 1.3  | 0.0  | 0.1  | -0.1 | 0.4  | 0.4  | 1.0  | 1.1  | 1.1  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 028 | ERWIN 1 W     | HIGHEST MEAN            | 46.2               | 46.3 | 52.7 | 60.1 | 68.6 | 73.8 | 79.0 | 77.2 | 72.7 | 63.3 | 56.3 | 47.3 | 79.0   |
|     |               | MEDIAN                  | 35.8               | 39.4 | 46.9 | 54.6 | 62.5 | 70.8 | 74.2 | 72.9 | 67.5 | 56.9 | 46.9 | 38.4 | 55.5   |
|     |               | LOWEST MEAN             | 22.5               | 30.5 | 41.2 | 50.4 | 57.9 | 66.1 | 71.0 | 70.8 | 64.4 | 49.0 | 39.8 | 28.5 | 22.5   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1991 | 1981 | 1993 | 1980 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1980 | 1981 | 1987 | 1997 | 1972 | 1976 | 1992 | 1976 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.9  | 1.9  | 1.3  | 0.0  | 0.1  | -0.1 | 0.4  | 0.4  | 1.0  | 1.1  | 1.1  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 029 | FAYETTEVILLE  | HIGHEST MEAN            | 47.0               | 50.3 | 56.3 | 64.5 | 71.9 | 78.2 | 80.4 | 80.7 | 75.9 | 65.9 | 57.4 | 49.7 | 80.7   |
|     |               | MEDIAN                  | 38.6               | 42.4 | 50.5 | 57.7 | 66.1 | 74.8 | 77.7 | 76.2 | 70.0 | 59.3 | 49.3 | 41.1 | 58.6   |
|     |               | LOWEST MEAN             | 26.3               | 32.6 | 44.8 | 53.3 | 61.6 | 69.3 | 74.9 | 72.5 | 65.3 | 52.3 | 40.9 | 30.7 | 26.3   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1999 | 1987 | 1998 | 1993 | 1995 | 1998 | 1971 | 1985 | 1984 | 1995   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1976 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.1               | -1.1 | -0.9 | -0.8 | -0.5 | -0.4 | -0.3 | -0.3 | -0.5 | -0.7 | -0.9 | -0.9 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -0.7               | -1.2 | -0.9 | -1.0 | -0.8 | -0.7 | -0.5 | -0.5 | -0.4 | -0.6 | -0.6 | -0.7 |        |
| 030 | FRANKLIN SEWA | HIGHEST MEAN            | 43.3               | 47.3 | 54.5 | 62.1 | 71.1 | 76.9 | 81.2 | 80.0 | 75.6 | 64.0 | 54.6 | 47.3 | 81.2   |
|     |               | MEDIAN                  | 35.7               | 38.7 | 48.5 | 56.4 | 64.4 | 73.5 | 77.5 | 75.5 | 69.0 | 57.8 | 47.4 | 39.2 | 56.8   |
|     |               | LOWEST MEAN             | 20.7               | 26.1 | 42.5 | 50.6 | 60.6 | 69.0 | 73.3 | 71.7 | 64.8 | 50.6 | 38.0 | 28.0 | 20.7   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1990 | 1973 | 1981 | 1987 | 1998 | 1999 | 1995 | 1998 | 1984 | 1985 | 1984 | 1999   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1984 | 1992 | 1984 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 1.9  | 2.0  | 1.3  | 1.0  | 0.8  | 0.5  | 0.3  | 0.3  | 0.9  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 032 | GATLINBURG 2  | HIGHEST MEAN            | 48.1               | 46.1 | 52.5 | 59.3 | 67.5 | 73.0 | 77.0 | 75.6 | 71.3 | 62.8 | 56.6 | 47.8 | 77.0   |
|     |               | MEDIAN                  | 36.6               | 39.6 | 47.1 | 54.4 | 62.2 | 69.9 | 73.1 | 71.5 | 66.2 | 56.2 | 46.5 | 38.8 | 55.2   |
|     |               | LOWEST MEAN             | 23.2               | 29.0 | 41.1 | 49.5 | 58.1 | 65.4 | 70.4 | 69.3 | 63.1 | 48.9 | 39.3 | 30.2 | 23.2   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1986 | 1993 | 1995 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1989 | 1972 | 1979 | 1992 | 1976 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.2                | 1.8  | 1.7  | 1.2  | 0.0  | 0.1  | -0.1 | 0.3  | 0.3  | 0.8  | 1.1  | 0.9  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 033 | GREENEVILLE E | HIGHEST MEAN            | 44.2               | 43.7 | 49.4 | 57.7 | 66.8 | 73.1 | 77.2 | 75.9 | 71.0 | 60.9 | 53.7 | 43.3 | 77.2   |
|     |               | MEDIAN                  | 33.3               | 37.4 | 45.1 | 51.8 | 60.5 | 69.3 | 73.7 | 71.6 | 65.5 | 54.4 | 43.7 | 35.7 | 53.5   |
|     |               | LOWEST MEAN             | 20.5               | 26.2 | 38.7 | 46.9 | 57.0 | 64.5 | 69.9 | 68.9 | 61.5 | 47.5 | 34.6 | 26.5 | 20.5   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1994 | 1993 | 1995 | 1998 | 1984 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1997 | 1972 | 1979 | 1976 | 1976 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.0  | 1.1  | 0.0  | -0.4 | -0.3 | -0.3 | -0.2 | -0.3 | 0.4  | 0.4  | 1.1  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.2  |        |



## Page 19

|     |               |                         |  | NORMALS STATISTICS |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|---------------|-------------------------|--|--------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name  | Element                 |  | JAN                | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 034 | HUNTINGDON WA | HIGHEST MEAN            |  | 40.8               | 45.0 | 52.5 | 62.0 | 70.3 | 76.1 | 81.0 | 80.1 | 72.8 | 63.1 | 52.0 | 45.9 | 81.0   |
|     |               | MEDIAN                  |  | 34.1               | 37.8 | 47.1 | 55.3 | 64.0 | 73.3 | 76.4 | 74.7 | 67.6 | 56.0 | 45.9 | 36.8 | 55.5   |
|     |               | LOWEST MEAN             |  | 19.7               | 24.1 | 40.5 | 49.4 | 58.7 | 67.6 | 74.0 | 70.8 | 63.0 | 49.7 | 36.5 | 25.6 | 19.7   |
|     |               | HIGHEST MEAN YEAR       |  | 1990               | 1990 | 1973 | 1981 | 1987 | 1994 | 1993 | 1995 | 1998 | 1971 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1980 | 1983 | 1976 | 1974 | 1996 | 1992 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 0.6                | 1.1  | -0.1 | -0.6 | -0.4 | -0.3 | -0.3 | -0.4 | -0.3 | -0.4 | 0.4  | 0.4  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.3                | 0.4  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 035 | JACKSON MCKEL | HIGHEST MEAN            |  | 46.0               | 51.2 | 57.5 | 66.5 | 73.3 | 80.0 | 85.1 | 83.7 | 77.7 | 68.0 | 56.3 | 51.0 | 85.1   |
|     |               | MEDIAN                  |  | 38.4               | 43.0 | 51.7 | 60.2 | 68.6 | 76.9 | 79.9 | 78.3 | 71.1 | 60.9 | 50.8 | 41.7 | 60.1   |
|     |               | LOWEST MEAN             |  | 25.9               | 29.9 | 45.4 | 53.9 | 63.8 | 72.5 | 77.7 | 74.5 | 67.3 | 55.7 | 42.0 | 29.8 | 25.9   |
|     |               | HIGHEST MEAN YEAR       |  | 1990               | 1976 | 1973 | 1981 | 1977 | 1998 | 1980 | 1983 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 2000 | 1992 | 1974 | 1987 | 1976 | 2000 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
| 036 | JACKSON EXP S | HIGHEST MEAN            |  | 44.9               | 49.5 | 56.5 | 65.1 | 73.8 | 79.5 | 83.2 | 82.9 | 77.1 | 66.9 | 56.0 | 50.1 | 83.2   |
|     |               | MEDIAN                  |  | 37.9               | 41.4 | 51.0 | 59.5 | 67.5 | 76.0 | 79.4 | 77.8 | 71.9 | 60.2 | 50.0 | 41.1 | 59.1   |
|     |               | LOWEST MEAN             |  | 24.4               | 28.6 | 45.1 | 53.4 | 61.6 | 71.0 | 76.7 | 74.4 | 66.0 | 54.4 | 40.6 | 30.7 | 24.4   |
|     |               | HIGHEST MEAN YEAR       |  | 1989               | 1990 | 1973 | 1981 | 1987 | 1998 | 1980 | 1983 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1978 | 1983 | 1976 | 1974 | 1972 | 1992 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 0.7                | 1.2  | -0.1 | -0.6 | -0.4 | -0.3 | -0.3 | -0.4 | -0.3 | -0.4 | 0.5  | 0.4  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.3                | 0.4  | 0.4  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 038 | JEFFERSON CIT | HIGHEST MEAN            |  | 45.3               | 45.5 | 52.2 | 60.2 | 69.9 | 75.9 | 79.5 | 78.4 | 73.3 | 64.1 | 55.5 | 46.2 | 79.5   |
|     |               | MEDIAN                  |  | 35.2               | 39.4 | 47.4 | 55.4 | 64.4 | 72.2 | 76.4 | 74.1 | 68.1 | 56.2 | 46.6 | 38.0 | 55.9   |
|     |               | LOWEST MEAN             |  | 22.0               | 30.4 | 40.2 | 50.4 | 60.0 | 68.9 | 73.5 | 71.6 | 64.6 | 50.0 | 40.3 | 29.9 | 22.0   |
|     |               | HIGHEST MEAN YEAR       |  | 1974               | 1990 | 1973 | 1981 | 1987 | 1981 | 1993 | 1983 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1996 | 1983 | 1997 | 1972 | 1976 | 1992 | 1976 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 1.4                | 1.1  | 1.1  | 0.0  | -0.4 | -0.3 | -0.3 | -0.2 | -0.3 | 0.4  | 0.4  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 039 | KINGSPORT     | HIGHEST MEAN            |  | 46.8               | 46.1 | 53.7 | 60.4 | 70.0 | 75.0 | 80.0 | 78.5 | 73.3 | 64.2 | 55.6 | 47.5 | 80.0   |
|     |               | MEDIAN                  |  | 35.8               | 39.0 | 47.4 | 56.0 | 64.6 | 72.3 | 76.2 | 74.4 | 68.4 | 57.4 | 47.2 | 38.9 | 56.7   |
|     |               | LOWEST MEAN             |  | 23.6               | 30.1 | 42.0 | 51.2 | 61.0 | 68.9 | 73.6 | 71.8 | 66.2 | 50.6 | 40.1 | 28.4 | 23.6   |
|     |               | HIGHEST MEAN YEAR       |  | 1974               | 1976 | 1973 | 1981 | 1991 | 1994 | 1993 | 1995 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1996 | 1983 | 1989 | 1972 | 1984 | 1992 | 1981 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 1.3                | 1.9  | 1.9  | 1.2  | 0.0  | 0.0  | -0.1 | 0.4  | 0.3  | 0.9  | 1.1  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 041 | KINGSTON SPRI | HIGHEST MEAN            |  | 43.0               | 46.8 | 53.5 | 63.4 | 71.6 | 76.5 | 81.2 | 80.5 | 73.4 | 64.9 | 55.2 | 48.6 | 81.2   |
|     |               | MEDIAN                  |  | 35.3               | 38.3 | 47.6 | 55.9 | 64.4 | 73.2 | 77.0 | 75.4 | 68.4 | 56.8 | 47.8 | 38.6 | 56.6   |
|     |               | LOWEST MEAN             |  | 18.5               | 24.8 | 42.3 | 50.8 | 59.3 | 68.5 | 72.4 | 71.8 | 64.5 | 51.6 | 38.4 | 27.5 | 18.5   |
|     |               | HIGHEST MEAN YEAR       |  | 1990               | 1990 | 1985 | 1981 | 1987 | 1971 | 1986 | 1983 | 1986 | 1971 | 1985 | 1984 | 1986   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1976 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 1.5                | 2.1  | 1.3  | 0.0  | 0.0  | 0.1  | -0.1 | -0.2 | 0.3  | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 042 | KNOXVILLE EXP | HIGHEST MEAN            |  | 46.9               | 46.1 | 54.1 | 61.7 | 70.9 | 76.6 | 81.0 | 80.4 | 73.7 | 65.6 | 56.8 | 47.9 | 81.0   |
|     |               | MEDIAN                  |  | 36.9               | 40.6 | 48.4 | 56.1 | 65.1 | 73.4 | 77.3 | 75.7 | 69.9 | 57.9 | 47.9 | 39.5 | 57.4   |
|     |               | LOWEST MEAN             |  | 24.4               | 30.6 | 42.7 | 52.4 | 60.4 | 69.1 | 74.7 | 73.0 | 66.1 | 52.2 | 40.5 | 30.5 | 24.4   |
|     |               | HIGHEST MEAN YEAR       |  | 1974               | 1990 | 1973 | 1981 | 1991 | 1981 | 1980 | 1995 | 1978 | 1984 | 1985 | 1971 | 1980   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1999 | 1983 | 1989 | 1999 | 1976 | 1992 | 1982 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 1.3                | 1.8  | 1.7  | 1.2  | 0.9  | 0.1  | 0.4  | 0.3  | 0.2  | 0.8  | 1.0  | 0.9  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 043 | KNOXVILLE AP  | HIGHEST MEAN            |  | 48.9               | 48.4 | 55.5 | 62.7 | 71.2 | 76.5 | 82.3 | 81.1 | 76.0 | 67.1 | 56.3 | 50.2 | 82.3   |
|     |               | MEDIAN                  |  | 37.8               | 41.6 | 49.2 | 57.8 | 66.0 | 74.2 | 77.3 | 76.4 | 70.5 | 58.9 | 49.0 | 40.8 | 58.3   |
|     |               | LOWEST MEAN             |  | 26.8               | 34.1 | 44.8 | 52.5 | 61.6 | 69.7 | 74.3 | 73.1 | 66.6 | 52.2 | 42.7 | 31.8 | 26.8   |
|     |               | HIGHEST MEAN YEAR       |  | 1974               | 1990 | 1973 | 1981 | 1991 | 1986 | 1993 | 1980 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1996 | 1983 | 1989 | 1974 | 1979 | 1992 | 1984 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
| 044 | KNOXVILLE UNI | HIGHEST MEAN            |  | 48.3               | 49.0 | 55.5 | 64.8 | 72.5 | 77.6 | 82.1 | 81.7 | 76.1 | 66.6 | 58.7 | 51.2 | 82.1   |
|     |               | MEDIAN                  |  | 38.7               | 42.1 | 50.5 | 58.8 | 67.1 | 74.9 | 78.7 | 77.1 | 71.1 | 60.3 | 50.6 | 41.4 | 59.4   |
|     |               | LOWEST MEAN             |  | 26.4               | 33.7 | 44.3 | 54.3 | 63.0 | 70.9 | 75.1 | 73.7 | 68.5 | 54.0 | 44.6 | 33.2 | 26.4   |
|     |               | HIGHEST MEAN YEAR       |  | 1974               | 1990 | 1976 | 1981 | 1991 | 1981 | 1980 | 1980 | 1978 | 1984 | 1985 | 1971 | 1980   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1979 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | -0.4               | -0.7 | -0.6 | -0.7 | -0.5 | -0.4 | -0.3 | -0.4 | -0.6 | -0.7 | -1.0 | -0.5 |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | 0.2                | 0.2  | 0.2  | 0.1  | 0.0  | 0.1  | 0.1  | 0.0  | -0.2 | -0.2 | -0.2 | 0.0  |        |
| 045 | LAFAYETTE     | HIGHEST MEAN            |  | 47.5               | 50.4 | 56.1 | 64.5 | 74.1 | 78.0 | 83.6 | 81.5 | 76.8 | 65.9 | 56.6 | 48.2 | 83.6   |
|     |               | MEDIAN                  |  | 37.4               | 41.8 | 51.4 | 58.9 | 66.6 | 75.1 | 78.0 | 76.7 | 70.6 | 60.3 | 50.2 | 41.7 | 58.6   |
|     |               | LOWEST MEAN             |  | 22.3               | 28.1 | 44.3 | 52.9 | 61.9 | 68.4 | 74.6 | 72.0 | 65.3 | 52.2 | 41.0 | 27.1 | 22.3   |
|     |               | HIGHEST MEAN YEAR       |  | 1989               | 1990 | 1995 | 1986 | 1987 | 1998 | 1986 | 1995 | 1998 | 1971 | 1985 | 1984 | 1986   |
|     |               | LOWEST MEAN YEAR        |  | 1977               | 1978 | 1996 | 1983 | 1973 | 1974 | 1976 | 1982 | 1974 | 1976 | 1976 | 2000 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT |  | -1.4               | -1.5 | -1.0 | -0.9 | -0.6 | -0.4 | -0.3 | -0.4 | -0.7 | -0.9 | -1.3 | -1.2 |        |
|     |               | MAX OBS TIME ADJUSTMENT |  | -2.1               | -2.4 | -2.3 | -2.3 | -1.8 | -1.1 | -1.0 | -1.1 | -1.3 | -1.7 | -1.6 | -1.8 |        |



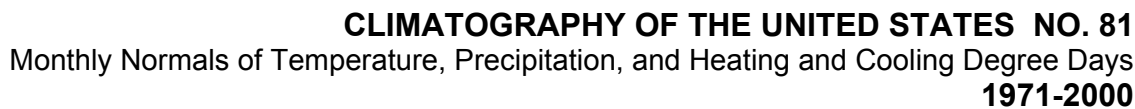
# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 20

|     |               |                         | NORMALS STATISTICS |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|---------------|-------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name  | Element                 | JAN                | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 046 | LANCING 6 NW  | HIGHEST MEAN            | 43.2               | 44.8 | 50.4 | 60.0 | 67.7 | 72.5 | 77.3 | 77.0 | 71.2 | 62.3 | 53.3 | 46.0 | 77.3   |
|     |               | MEDIAN                  | 33.5               | 37.3 | 44.8 | 53.7 | 61.4 | 70.1 | 73.9 | 71.9 | 66.0 | 55.1 | 45.6 | 37.3 | 54.2   |
|     |               | LOWEST MEAN             | 20.0               | 26.7 | 39.0 | 48.9 | 57.2 | 65.5 | 70.5 | 68.8 | 62.5 | 49.2 | 37.3 | 26.8 | 20.0   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1991 | 1986 | 1980 | 1995 | 1998 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1997 | 1997 | 1974 | 1976 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.8  | 1.8  | 1.2  | 1.0  | 0.1  | 0.4  | 0.3  | 0.3  | 0.9  | 1.1  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 047 | LAWRENCEBURG  | HIGHEST MEAN            | 44.6               | 48.6 | 55.7 | 62.9 | 70.7 | 77.0 | 79.8 | 78.6 | 75.4 | 65.8 | 56.0 | 49.4 | 79.8   |
|     |               | MEDIAN                  | 36.9               | 40.2 | 49.3 | 57.4 | 65.1 | 73.4 | 76.6 | 75.3 | 68.8 | 57.9 | 48.7 | 40.2 | 57.5   |
|     |               | LOWEST MEAN             | 25.0               | 28.7 | 43.8 | 53.3 | 60.9 | 68.7 | 74.3 | 71.9 | 64.6 | 52.2 | 40.1 | 29.6 | 25.0   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1993 | 1995 | 1998 | 1984 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1997 | 1976 | 1974 | 1994 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.1  | -0.1 | -0.2 | 0.3  | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 048 | LEBANON       | HIGHEST MEAN            | 45.3               | 47.1 | 53.9 | 63.5 | 72.1 | 77.0 | 82.5 | 81.0 | 73.9 | 65.2 | 56.0 | 48.3 | 82.5   |
|     |               | MEDIAN                  | 35.1               | 39.0 | 48.3 | 56.8 | 65.0 | 74.4 | 78.5 | 76.3 | 69.4 | 57.7 | 48.2 | 39.5 | 57.4   |
|     |               | LOWEST MEAN             | 20.8               | 26.6 | 41.3 | 49.8 | 60.5 | 69.8 | 75.2 | 72.8 | 65.2 | 51.9 | 39.2 | 27.8 | 20.8   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1994 | 1993 | 1983 | 1980 | 1971 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1999 | 1997 | 1997 | 1974 | 1984 | 1992 | 1975 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.1  | 1.2  | 0.0  | 0.0  | -0.3 | -0.1 | -0.2 | -0.4 | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 050 | LENOIR CITY   | HIGHEST MEAN            | 48.5               | 47.6 | 54.8 | 62.6 | 72.3 | 78.2 | 82.8 | 81.8 | 76.5 | 66.4 | 59.0 | 48.4 | 82.8   |
|     |               | MEDIAN                  | 37.5               | 41.1 | 49.6 | 57.7 | 66.2 | 75.0 | 78.5 | 77.1 | 71.3 | 59.4 | 48.7 | 40.4 | 58.7   |
|     |               | LOWEST MEAN             | 24.9               | 33.1 | 43.8 | 52.5 | 62.2 | 70.5 | 75.5 | 73.7 | 67.9 | 53.1 | 41.6 | 31.5 | 24.9   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1986 | 1993 | 1995 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1984 | 1992 | 1976 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.2                | 1.8  | 1.8  | 1.2  | 0.9  | 0.1  | 0.4  | 0.3  | 0.2  | 0.8  | 1.0  | 0.9  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 051 | LEWISBURG EXP | HIGHEST MEAN            | 43.7               | 46.7 | 53.3 | 62.2 | 71.3 | 77.3 | 80.6 | 81.2 | 74.4 | 65.4 | 55.9 | 47.7 | 81.2   |
|     |               | MEDIAN                  | 35.7               | 38.5 | 48.1 | 55.9 | 64.4 | 73.9 | 77.6 | 75.7 | 68.9 | 57.4 | 47.4 | 38.6 | 56.7   |
|     |               | LOWEST MEAN             | 21.9               | 26.7 | 41.3 | 51.4 | 59.7 | 68.7 | 74.4 | 71.8 | 64.2 | 51.2 | 38.4 | 27.5 | 21.9   |
|     |               | HIGHEST MEAN YEAR       | 1998               | 1990 | 1973 | 1981 | 1987 | 1998 | 1993 | 1983 | 1980 | 1984 | 1985 | 1984 | 1983   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1982 | 1976 | 1974 | 1972 | 1976 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.7                | 1.1  | -0.1 | -0.6 | -0.4 | -0.3 | -0.3 | -0.4 | -0.6 | -0.4 | -0.6 | 0.4  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 052 | LEXINGTON     | HIGHEST MEAN            | 47.5               | 48.5 | 55.4 | 64.4 | 72.8 | 79.5 | 83.5 | 82.8 | 77.4 | 67.2 | 56.5 | 51.2 | 83.5   |
|     |               | MEDIAN                  | 37.5               | 42.0 | 50.3 | 58.6 | 67.5 | 76.5 | 79.8 | 78.0 | 72.5 | 60.0 | 49.8 | 40.8 | 59.2   |
|     |               | LOWEST MEAN             | 23.2               | 29.3 | 44.8 | 54.0 | 61.2 | 71.7 | 76.8 | 74.9 | 66.7 | 53.1 | 39.8 | 27.8 | 23.2   |
|     |               | HIGHEST MEAN YEAR       | 1989               | 1976 | 1973 | 1981 | 1987 | 1984 | 1986 | 1980 | 1998 | 1971 | 1990 | 1984 | 1986   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1978 | 1983 | 1976 | 1974 | 1972 | 1976 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.1  | -0.1 | -0.2 | 0.3  | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 053 | LINDEN 2      | HIGHEST MEAN            | 44.8               | 48.1 | 55.4 | 63.8 | 72.1 | 77.3 | 81.5 | 80.8 | 74.8 | 65.6 | 55.1 | 49.3 | 81.5   |
|     |               | MEDIAN                  | 37.0               | 40.5 | 50.3 | 57.5 | 66.2 | 74.4 | 77.9 | 76.2 | 69.5 | 58.6 | 48.9 | 40.1 | 58.1   |
|     |               | LOWEST MEAN             | 23.9               | 29.8 | 42.8 | 52.4 | 61.3 | 70.4 | 75.1 | 72.8 | 66.2 | 52.0 | 40.8 | 29.3 | 23.9   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1977 | 1980 | 1972 | 1971 | 1985 | 1984 | 1977   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1996 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.1  | -0.1 | -0.2 | 0.3  | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 055 | LIVINGSTON RA | HIGHEST MEAN            | 44.4               | 47.2 | 53.6 | 60.7 | 70.3 | 75.1 | 79.9 | 79.4 | 74.1 | 65.0 | 55.2 | 49.5 | 79.9   |
|     |               | MEDIAN                  | 35.7               | 38.9 | 48.1 | 55.2 | 63.6 | 72.6 | 76.2 | 74.9 | 68.3 | 57.2 | 47.5 | 39.6 | 56.4   |
|     |               | LOWEST MEAN             | 20.4               | 26.1 | 40.7 | 50.8 | 59.4 | 68.7 | 72.0 | 70.1 | 63.5 | 49.6 | 36.0 | 29.1 | 20.4   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1991 | 1991 | 1994 | 1980 | 1995 | 1998 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1999 | 1983 | 1973 | 1974 | 1976 | 1976 | 1976 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 2.0  | 2.0  | 1.3  | 1.0  | 0.1  | 0.5  | 0.4  | 0.3  | 1.0  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.1  | 0.1  |        |
| 056 | MARTIN UNIV O | HIGHEST MEAN            | 43.3               | 47.0 | 53.4 | 63.4 | 73.7 | 78.4 | 84.5 | 82.5 | 76.8 | 65.3 | 54.6 | 47.7 | 84.5   |
|     |               | MEDIAN                  | 35.3               | 39.3 | 48.4 | 57.4 | 66.5 | 75.4 | 79.2 | 77.0 | 70.3 | 59.3 | 48.1 | 39.0 | 57.4   |
|     |               | LOWEST MEAN             | 19.3               | 23.7 | 42.2 | 51.3 | 59.3 | 70.3 | 75.4 | 72.6 | 64.1 | 52.0 | 39.4 | 26.3 | 19.3   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1990 | 1976 | 1981 | 1987 | 1998 | 1993 | 1980 | 1998 | 1971 | 1999 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1975 | 1983 | 1976 | 1974 | 1976 | 1976 | 1974 | 1976 | 1976 | 1983 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.1  | 1.3  | 0.0  | 0.0  | 0.0  | -0.1 | -0.2 | 0.4  | 0.4  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 057 | MC MINNVILLE  | HIGHEST MEAN            | 47.6               | 51.4 | 56.7 | 64.1 | 71.6 | 76.2 | 80.4 | 79.8 | 74.3 | 66.1 | 58.1 | 51.4 | 80.4   |
|     |               | MEDIAN                  | 39.0               | 42.4 | 51.3 | 57.8 | 65.8 | 73.7 | 77.2 | 75.5 | 69.4 | 59.2 | 50.0 | 42.0 | 58.6   |
|     |               | LOWEST MEAN             | 24.8               | 31.0 | 45.1 | 53.6 | 61.3 | 68.7 | 73.0 | 72.1 | 65.5 | 52.8 | 40.5 | 31.9 | 24.8   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1980 | 1983 | 1998 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1976 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.2               | -1.1 | -0.9 | -0.8 | -0.5 | -0.4 | -0.3 | -0.3 | -0.5 | -0.8 | -1.0 | -1.0 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -1.2               | -1.9 | -1.6 | -1.6 | -1.3 | -0.7 | -0.7 | -0.7 | -0.7 | -1.0 | -0.9 | -1.2 |        |

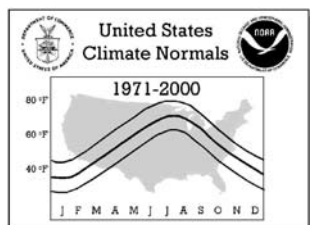


## Page 21

|     |               |                         | NORMALS STATISTICS |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|---------------|-------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name  | Element                 | JAN                | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 058 | MEMPHIS INTL  | HIGHEST MEAN            | 47.9               | 52.9 | 58.8 | 69.1 | 76.0 | 83.2 | 87.7 | 86.3 | 80.5 | 70.0 | 58.0 | 53.8 | 87.7   |
|     |               | MEDIAN                  | 40.4               | 45.5 | 53.5 | 61.9 | 70.3 | 78.7 | 82.3 | 80.6 | 74.9 | 63.6 | 52.7 | 44.0 | 62.3   |
|     |               | LOWEST MEAN             | 29.5               | 34.0 | 48.0 | 56.4 | 64.3 | 74.1 | 79.3 | 76.8 | 68.5 | 58.0 | 44.4 | 32.7 | 29.5   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1974 | 1981 | 1987 | 1998 | 1980 | 1980 | 1998 | 1971 | 1973 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1972 | 1992 | 1974 | 1976 | 1976 | 2000 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
|     |               | MAX OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 059 | MEMPHIS WSFO  | HIGHEST MEAN            | 45.7               | 50.2 | 57.1 | 65.9 | 74.3 | 82.2 | 86.0 | 84.0 | 78.8 | 67.8 | 56.3 | 51.0 | 86.0   |
|     |               | MEDIAN                  | 38.3               | 42.3 | 51.3 | 59.6 | 68.4 | 77.4 | 80.9 | 79.1 | 73.0 | 61.4 | 51.5 | 41.6 | 60.3   |
|     |               | LOWEST MEAN             | 25.9               | 29.8 | 44.8 | 53.4 | 63.2 | 72.5 | 78.7 | 74.7 | 67.3 | 56.2 | 42.6 | 31.5 | 25.9   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1973 | 1981 | 1987 | 1998 | 1980 | 1980 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1989 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 1.8  | 2.0  | 1.2  | 1.0  | 0.8  | 0.4  | 0.3  | 0.7  | 0.9  | 1.1  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 060 | MILAN EXP STN | HIGHEST MEAN            | 42.6               | 46.5 | 53.3 | 63.0 | 72.5 | 76.9 | 81.1 | 80.3 | 73.9 | 63.7 | 53.1 | 45.6 | 81.1   |
|     |               | MEDIAN                  | 35.0               | 38.6 | 47.6 | 56.9 | 65.1 | 73.9 | 77.3 | 75.6 | 68.5 | 57.0 | 47.4 | 38.1 | 56.5   |
|     |               | LOWEST MEAN             | 20.3               | 24.5 | 42.1 | 50.5 | 60.4 | 69.1 | 74.2 | 70.8 | 63.6 | 51.6 | 38.1 | 27.5 | 20.3   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1990 | 1973 | 1981 | 1987 | 1998 | 1993 | 1980 | 1998 | 1971 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1976 | 1974 | 1984 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.3  | 0.0  | 0.0  | 0.0  | -0.1 | -0.2 | 0.3  | 0.4  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 061 | MONTEAGLE     | HIGHEST MEAN            | 44.2               | 46.3 | 53.5 | 62.4 | 70.1 | 74.7 | 77.9 | 77.1 | 72.7 | 64.7 | 54.9 | 47.7 | 77.9   |
|     |               | MEDIAN                  | 35.0               | 39.9 | 47.3 | 56.0 | 64.0 | 71.3 | 74.5 | 73.5 | 67.6 | 58.1 | 47.0 | 38.3 | 55.8   |
|     |               | LOWEST MEAN             | 20.6               | 28.1 | 40.9 | 50.2 | 58.3 | 66.6 | 72.1 | 69.8 | 63.9 | 51.2 | 39.2 | 29.2 | 20.6   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1981 | 1993 | 1987 | 1998 | 1984 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1997 | 1972 | 1992 | 1975 | 1976 | 1976 | 2000 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.1  | 1.1  | 0.0  | 0.0  | -0.3 | -0.1 | -0.2 | -0.3 | 0.3  | 0.4  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 063 | MORRISTOWN RA | HIGHEST MEAN            | 46.2               | 46.3 | 51.7 | 61.0 | 69.7 | 75.6 | 80.5 | 79.4 | 73.7 | 64.2 | 55.6 | 46.5 | 80.5   |
|     |               | MEDIAN                  | 35.9               | 39.3 | 47.9 | 55.5 | 64.6 | 72.3 | 76.5 | 74.9 | 69.0 | 57.7 | 47.0 | 38.2 | 56.7   |
|     |               | LOWEST MEAN             | 22.2               | 28.6 | 40.4 | 50.1 | 59.2 | 68.6 | 73.4 | 72.4 | 66.2 | 50.7 | 40.0 | 29.6 | 22.2   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1981 | 1993 | 1995 | 1998 | 1984 | 1985 | 1971 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1976 | 1992 | 1976 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.3                | 1.8  | 1.8  | 1.2  | 0.0  | 0.1  | -0.1 | 0.3  | 0.3  | 0.9  | 1.1  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 064 | MOSCOW        | HIGHEST MEAN            | 48.3               | 52.3 | 58.6 | 67.7 | 74.0 | 80.7 | 84.3 | 84.1 | 77.6 | 67.8 | 58.4 | 53.8 | 84.3   |
|     |               | MEDIAN                  | 40.1               | 44.7 | 53.2 | 61.0 | 68.8 | 76.1 | 79.3 | 77.8 | 72.1 | 60.7 | 51.8 | 42.9 | 60.7   |
|     |               | LOWEST MEAN             | 26.9               | 31.1 | 46.1 | 55.7 | 61.3 | 71.2 | 75.0 | 73.4 | 63.9 | 53.4 | 40.8 | 33.4 | 26.9   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1976 | 1973 | 1981 | 1987 | 1998 | 1986 | 1983 | 1998 | 1984 | 1985 | 1984 | 1986   |
|     |               | LOWEST MEAN YEAR        | 1979               | 1978 | 1978 | 1997 | 1976 | 1974 | 1976 | 1976 | 1974 | 1976 | 1976 | 1989 | 1979   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.2               | -1.1 | -0.9 | -0.8 | -0.5 | -0.4 | -0.3 | -0.4 | -0.6 | -0.8 | -1.1 | -1.0 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -0.8               | -1.3 | -1.0 | -1.0 | -0.9 | -0.8 | -0.5 | -0.5 | -0.8 | -0.6 | -1.0 | -0.7 |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 065 | MOUNTAIN CITY | HIGHEST MEAN            | 41.5               | 42.1 | 47.8 | 54.8 | 64.7 | 70.1 | 74.2 | 72.3 | 67.6 | 59.7 | 51.8 | 43.5 | 74.2   |
|     |               | MEDIAN                  | 30.6               | 34.6 | 42.9 | 50.3 | 59.0 | 66.9 | 70.2 | 68.8 | 63.4 | 50.5 | 43.1 | 34.1 | 51.4   |
|     |               | LOWEST MEAN             | 19.1               | 25.7 | 36.3 | 45.3 | 53.0 | 62.2 | 66.9 | 64.2 | 57.9 | 46.0 | 34.1 | 24.1 | 19.1   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1991 | 1981 | 1993 | 1983 | 1998 | 1984 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1997 | 1997 | 1995 | 1995 | 1994 | 1997 | 1988 | 1996 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 1.1  | 1.1  | -0.1 | -0.5 | -0.4 | -0.3 | -0.2 | -0.3 | 0.5  | 0.5  | 1.1  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.2  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 066 | MT LECONTE    | HIGHEST MEAN            | 37.0               | 33.1 | 40.2 | 47.1 | 53.8 | 60.5 | 61.8 | 60.6 | 56.5 | 51.9 | 44.2 | 35.6 | 61.8   |
|     |               | MEDIAN                  | 24.1               | 26.2 | 33.3 | 40.9 | 48.7 | 55.5 | 58.9 | 56.8 | 52.3 | 45.0 | 35.5 | 28.2 | 42.3   |
|     |               | LOWEST MEAN             | 13.3               | 18.8 | 26.7 | 36.4 | 43.1 | 52.0 | 56.4 | 54.7 | 50.0 | 38.0 | 29.1 | 20.2 | 13.3   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1976 | 1989 | 1981 | 1991 | 1981 | 1980 | 1988 | 1978 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1993 | 1997 | 1989 | 1972 | 1984 | 1992 | 1996 | 1988 | 1997 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.2                | 1.7  | 1.7  | 1.2  | 0.0  | 0.1  | -0.1 | 0.3  | 0.3  | 0.9  | 1.1  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.3  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.2  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 067 | MOUNT PLEASAN | HIGHEST MEAN            | 45.4               | 49.1 | 55.7 | 65.5 | 72.6 | 80.7 | 82.2 | 81.7 | 75.3 | 66.4 | 55.7 | 48.5 | 82.2   |
|     |               | MEDIAN                  | 36.6               | 40.5 | 50.0 | 58.8 | 66.5 | 75.4 | 78.8 | 76.9 | 70.1 | 59.0 | 49.1 | 40.6 | 58.6   |
|     |               | LOWEST MEAN             | 24.4               | 29.2 | 43.7 | 53.4 | 61.7 | 70.5 | 75.6 | 72.8 | 65.5 | 53.3 | 40.9 | 26.3 | 24.4   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1998 | 1980 | 1972 | 1971 | 1985 | 1984 | 1998   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1984 | 1992 | 1974 | 1987 | 1976 | 2000 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.7                | 1.2  | -0.1 | -0.6 | -0.4 | -0.3 | -0.3 | -0.4 | -0.3 | -0.4 | -0.6 | 0.4  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.3  | 0.3  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
| 068 | MURFREESBORO  | HIGHEST MEAN            | 44.0               | 47.0 | 54.3 | 62.7 | 72.1 | 76.9 | 81.4 | 81.5 | 75.8 | 64.9 | 55.2 | 48.9 | 81.5   |
|     |               | MEDIAN                  | 35.3               | 39.1 | 48.2 | 56.8 | 65.4 | 74.3 | 78.3 | 75.8 | 69.9 | 58.1 | 48.4 | 38.9 | 57.3   |
|     |               | LOWEST MEAN             | 21.6               | 27.1 | 42.3 | 51.9 | 61.1 | 69.8 | 75.7 | 72.3 | 65.9 | 51.3 | 40.3 | 28.5 | 21.6   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1980 | 1983 | 1998 | 1971 | 1985 | 1984 | 1983   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1994 | 1974 | 1976 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.1  | 1.2  | 0.0  | 0.0  | -0.3 | -0.1 | -0.2 | -0.4 | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |







# CLIMATOGRAPHY OF THE UNITED STATES NO. 81

## Monthly Normals of Temperature, Precipitation, and Heating and Cooling Degree Days 1971-2000

### TENNESSEE

Page 24

|     |               |                         | NORMALS STATISTICS |      |      |      |      |      |      |      |      |      |      |      |        |
|-----|---------------|-------------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| No. | Station Name  | Element                 | JAN                | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
| 093 | SPARTA        | HIGHEST MEAN            | 47.2               | 50.9 | 56.0 | 63.0 | 73.0 | 76.7 | 80.6 | 80.5 | 74.2 | 66.5 | 59.3 | 49.9 | 80.6   |
|     |               | MEDIAN                  | 39.2               | 42.2 | 51.8 | 58.3 | 66.0 | 73.9 | 77.3 | 75.8 | 69.9 | 59.1 | 49.8 | 41.5 | 58.5   |
|     |               | LOWEST MEAN             | 24.8               | 30.4 | 43.1 | 53.6 | 60.0 | 69.2 | 74.3 | 71.4 | 64.6 | 53.4 | 39.8 | 32.5 | 24.8   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1991 | 1987 | 1986 | 1993 | 1983 | 1998 | 1985 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1971 | 1972 | 1972 | 1976 | 1976 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.3               | -1.2 | -1.0 | -0.8 | -0.6 | -0.4 | -0.3 | -0.4 | -0.6 | -0.9 | -1.2 | -1.2 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -1.9               | -2.0 | -2.2 | -2.3 | -1.7 | -1.1 | -0.9 | -0.9 | -1.2 | -1.6 | -1.5 | -1.8 |        |
| 094 | SPRINGFIELD E | HIGHEST MEAN            | 42.2               | 45.8 | 53.8 | 62.6 | 72.2 | 76.8 | 81.0 | 80.8 | 73.1 | 65.2 | 54.1 | 47.3 | 81.0   |
|     |               | MEDIAN                  | 34.6               | 38.6 | 47.6 | 56.5 | 65.0 | 73.3 | 76.8 | 75.0 | 68.9 | 57.7 | 47.9 | 38.7 | 56.8   |
|     |               | LOWEST MEAN             | 19.2               | 24.2 | 40.4 | 49.5 | 59.5 | 68.7 | 74.6 | 71.3 | 64.0 | 51.4 | 38.3 | 25.5 | 19.2   |
|     |               | HIGHEST MEAN YEAR       | 1990               | 1990 | 1973 | 1981 | 1987 | 1984 | 1993 | 1983 | 1980 | 1971 | 1985 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1997 | 1997 | 1974 | 1976 | 1976 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 1.9  | 2.1  | 1.3  | 1.1  | 0.0  | 0.5  | 0.4  | 0.3  | 1.0  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.5  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 096 | TAZEWELL      | HIGHEST MEAN            | 43.5               | 44.3 | 49.8 | 57.6 | 68.7 | 73.7 | 78.2 | 78.3 | 72.0 | 62.2 | 54.6 | 44.5 | 78.3   |
|     |               | MEDIAN                  | 33.9               | 37.0 | 45.0 | 52.6 | 62.2 | 70.6 | 74.7 | 73.1 | 67.1 | 55.3 | 44.5 | 36.0 | 54.2   |
|     |               | LOWEST MEAN             | 20.5               | 25.8 | 38.4 | 48.8 | 56.8 | 65.3 | 71.1 | 69.8 | 62.9 | 48.0 | 36.1 | 27.3 | 20.5   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1989 | 1991 | 1987 | 1994 | 1993 | 1995 | 1978 | 1984 | 1985 | 1984 | 1995   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1973 | 1974 | 1976 | 1976 | 1976 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.1  | 2.1  | 1.3  | 0.0  | 0.1  | -0.1 | 0.4  | 0.3  | 1.0  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.1  | 0.1  |        |
| 097 | TULLAHOMA     | HIGHEST MEAN            | 45.9               | 48.8 | 55.7 | 63.2 | 69.6 | 75.9 | 80.5 | 80.0 | 74.6 | 64.8 | 55.3 | 49.1 | 80.5   |
|     |               | MEDIAN                  | 36.7               | 41.0 | 49.0 | 57.1 | 65.1 | 73.6 | 77.2 | 75.2 | 69.1 | 58.7 | 49.3 | 40.7 | 57.8   |
|     |               | LOWEST MEAN             | 24.0               | 29.5 | 44.0 | 52.2 | 61.0 | 69.4 | 74.1 | 71.2 | 66.1 | 52.3 | 40.2 | 30.4 | 24.0   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1998 | 1981 | 1980 | 1980 | 1998 | 1971 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1984 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.0                | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |        |
| 098 | UNION CITY    | HIGHEST MEAN            | 43.3               | 45.7 | 53.7 | 63.7 | 72.7 | 78.0 | 82.3 | 82.0 | 75.1 | 64.9 | 53.2 | 46.1 | 82.3   |
|     |               | MEDIAN                  | 34.3               | 38.7 | 47.7 | 56.6 | 66.5 | 74.9 | 78.3 | 76.1 | 69.6 | 58.3 | 47.8 | 38.3 | 57.0   |
|     |               | LOWEST MEAN             | 19.7               | 23.7 | 41.5 | 50.6 | 60.9 | 70.6 | 75.7 | 72.2 | 64.6 | 52.5 | 38.4 | 27.0 | 19.7   |
|     |               | HIGHEST MEAN YEAR       | 1998               | 1990 | 1973 | 1981 | 1987 | 1984 | 1993 | 1983 | 1998 | 1971 | 1999 | 1984 | 1993   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1980 | 1983 | 1976 | 1974 | 1971 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.1  | 1.3  | 0.0  | 0.0  | 0.0  | -0.1 | -0.2 | 0.4  | 0.4  | 1.2  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | 0.0  | 0.0  | 0.1  |        |
| 099 | WAVERLY       | HIGHEST MEAN            | 42.9               | 47.8 | 55.2 | 62.6 | 71.5 | 77.8 | 82.2 | 81.0 | 74.7 | 63.8 | 54.2 | 48.0 | 82.2   |
|     |               | MEDIAN                  | 35.4               | 38.9 | 47.8 | 56.5 | 65.2 | 74.1 | 77.5 | 75.8 | 69.1 | 57.6 | 46.9 | 38.7 | 56.7   |
|     |               | LOWEST MEAN             | 20.6               | 25.8 | 41.8 | 50.5 | 59.7 | 68.6 | 74.0 | 71.7 | 64.6 | 51.1 | 37.5 | 26.5 | 20.6   |
|     |               | HIGHEST MEAN YEAR       | 1998               | 1990 | 1973 | 1981 | 1998 | 1998 | 1999 | 1983 | 1998 | 1971 | 1985 | 1984 | 1999   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1980 | 1983 | 1976 | 1974 | 1971 | 1976 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.0  | -0.1 | -0.2 | 0.3  | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 100 | WAYNESBORO    | HIGHEST MEAN            | 44.6               | 47.6 | 54.7 | 63.0 | 70.7 | 76.6 | 80.9 | 79.9 | 74.0 | 65.1 | 54.4 | 48.8 | 80.9   |
|     |               | MEDIAN                  | 36.9               | 39.9 | 48.4 | 56.1 | 65.2 | 73.5 | 76.9 | 75.6 | 68.9 | 57.8 | 47.9 | 39.8 | 57.3   |
|     |               | LOWEST MEAN             | 22.7               | 28.2 | 42.6 | 51.2 | 59.7 | 69.0 | 74.9 | 70.9 | 65.5 | 51.0 | 38.8 | 28.9 | 22.7   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1980 | 1980 | 1998 | 1971 | 1985 | 1971 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1976 | 1974 | 1976 | 1992 | 1974 | 1987 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.5                | 2.0  | 1.2  | 0.0  | 0.0  | 0.1  | -0.1 | -0.2 | 0.3  | 0.4  | 0.5  | 1.0  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
| 101 | WINCHESTER 1  | HIGHEST MEAN            | 48.2               | 52.2 | 57.7 | 64.9 | 72.4 | 77.1 | 80.6 | 80.3 | 75.2 | 66.3 | 58.3 | 51.1 | 80.6   |
|     |               | MEDIAN                  | 39.5               | 43.3 | 51.9 | 59.4 | 66.7 | 74.5 | 77.5 | 76.4 | 70.5 | 60.4 | 51.1 | 42.9 | 59.4   |
|     |               | LOWEST MEAN             | 26.2               | 33.7 | 46.4 | 53.9 | 61.9 | 70.2 | 74.7 | 73.0 | 66.1 | 54.7 | 42.7 | 33.4 | 26.2   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1981 | 1987 | 1998 | 1980 | 1983 | 1998 | 1984 | 1985 | 1984 | 1980   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1971 | 1983 | 1997 | 1974 | 1976 | 1992 | 1974 | 1976 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | -1.2               | -1.1 | -0.9 | -0.8 | -0.5 | -0.4 | -0.3 | -0.3 | -0.5 | -0.8 | -1.0 | -1.0 |        |
|     |               | MAX OBS TIME ADJUSTMENT | -1.2               | -1.9 | -1.5 | -1.6 | -1.3 | -0.7 | -0.7 | -0.7 | -0.8 | -1.0 | -0.9 | -1.2 |        |
| 102 | WOODBURY 1 WN | HIGHEST MEAN            | 44.6               | 48.7 | 54.5 | 61.5 | 70.5 | 75.8 | 81.1 | 79.9 | 74.8 | 65.2 | 55.5 | 48.3 | 81.1   |
|     |               | MEDIAN                  | 36.2               | 38.6 | 48.9 | 55.8 | 64.7 | 73.2 | 77.1 | 75.2 | 68.8 | 57.4 | 47.6 | 39.4 | 56.9   |
|     |               | LOWEST MEAN             | 22.7               | 27.4 | 42.8 | 51.1 | 60.2 | 69.2 | 74.7 | 72.1 | 65.9 | 51.0 | 38.7 | 28.7 | 22.7   |
|     |               | HIGHEST MEAN YEAR       | 1974               | 1990 | 1973 | 1999 | 1987 | 1994 | 1999 | 1995 | 1998 | 1971 | 1985 | 1984 | 1999   |
|     |               | LOWEST MEAN YEAR        | 1977               | 1978 | 1996 | 1983 | 1997 | 1974 | 1984 | 1992 | 1974 | 1988 | 1976 | 1989 | 1977   |
|     |               | MIN OBS TIME ADJUSTMENT | 1.4                | 2.0  | 1.2  | 0.0  | 0.0  | -0.3 | -0.1 | -0.2 | -0.3 | 0.4  | 0.5  | 1.1  |        |
|     |               | MAX OBS TIME ADJUSTMENT | 0.3                | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  | 0.0  | -0.1 | -0.1 | 0.0  | 0.1  |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |
|     |               |                         |                    |      |      |      |      |      |      |      |      |      |      |      |        |