

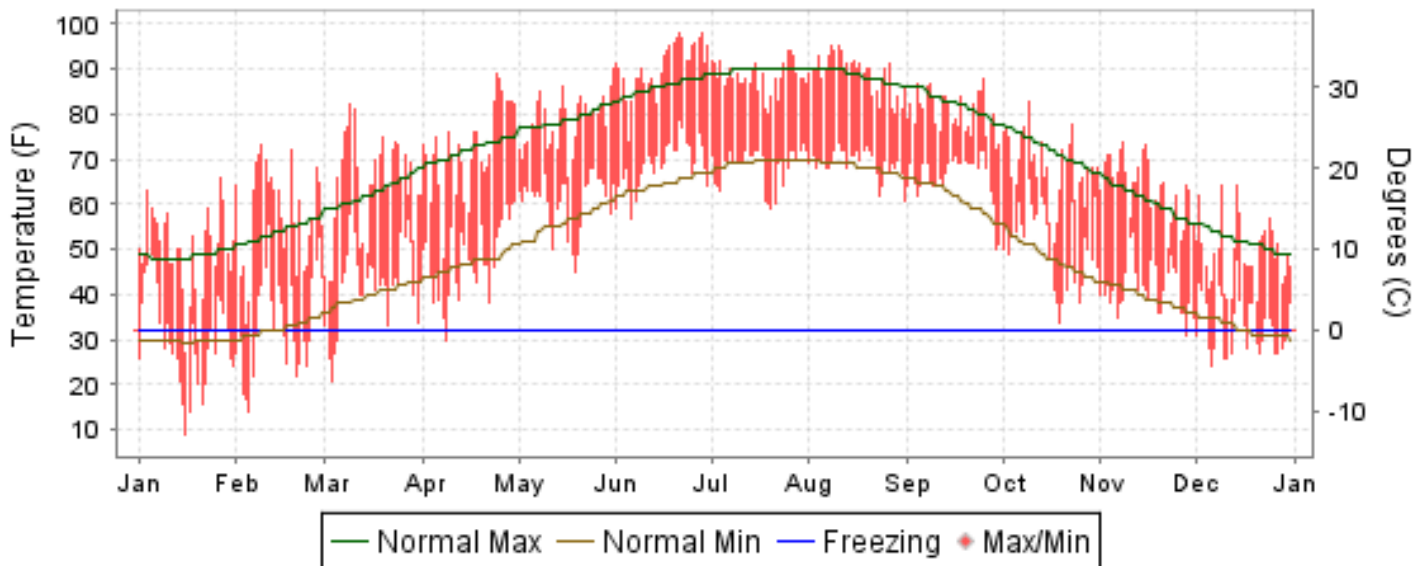


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

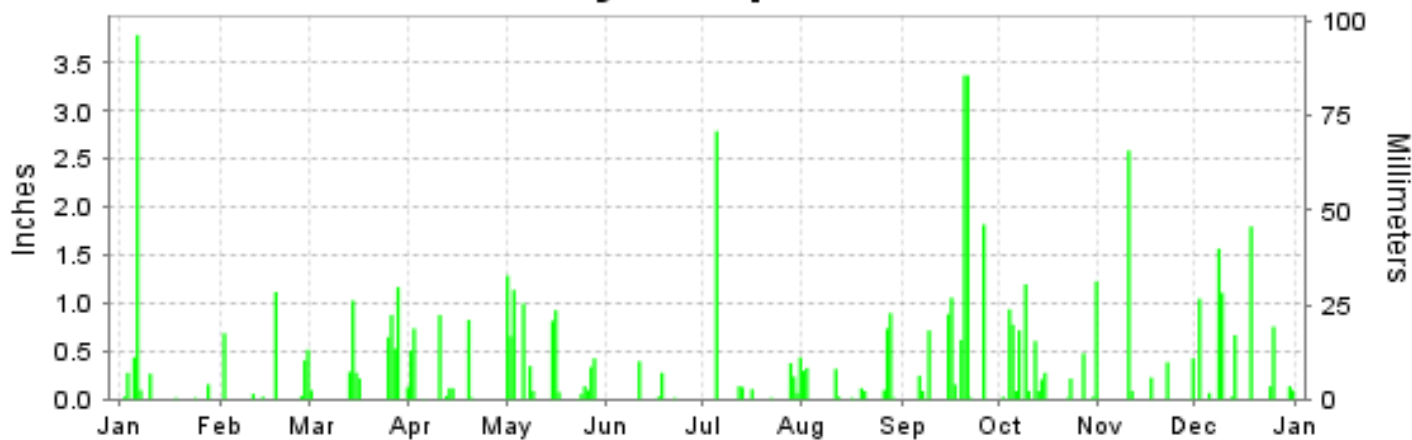
ISSN 0198-4780

## CHATTANOOGA, TENNESSEE (KCHA)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## CHATTANOOGA (KCHA)

LATITUDE: 35° 2' N      LONGITUDE: -85° 12' W      ELEVATION (FT): GRND: 671    BARO: 691      TIME ZONE: EASTERN (UTC -5)      WBAN: 13882

| ELEMENT                  |                             | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |  |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|--|
| TEMPERATURE °F           | MEAN DAILY MAXIMUM          | 49.8  | 57.6  | 64.2  | 72.4  | 78.5  | 90.7  | 88.3  | 88.9  | 80.5  | 68.3  | 63.8  | 49.1   | 71.0      |  |
|                          | HIGHEST DAILY MAXIMUM       | 66    | 73    | 82    | 89    | 90    | 98    | 94    | 95    | 88    | 83    | 74    | 64     | 98        |  |
|                          | DATE OF OCCURRENCE          | 27    | 09    | 09    | 24    | 31    | 28+   | 26+   | 10+   | 25    | 09    | 08    | 14+    | JUN 28+   |  |
|                          | MEAN DAILY MINIMUM          | 30.2  | 33.7  | 42.4  | 47.8  | 60.7  | 68.8  | 68.5  | 69.3  | 66.0  | 50.9  | 41.4  | 33.0   | 51.1      |  |
|                          | LOWEST DAILY MINIMUM        | 9     | 14    | 21    | 30    | 45    | 57    | 59    | 61    | 50    | 34    | 31    | 24     | 9         |  |
|                          | DATE OF OCCURRENCE          | 16    | 05    | 03    | 08    | 19    | 06    | 20    | 31    | 29    | 19    | 28    | 06     | JAN 16    |  |
|                          | AVERAGE DRY BULB            | 40.0  | 45.7  | 53.3  | 60.1  | 69.6  | 79.8  | 78.4  | 79.1  | 73.3  | 59.6  | 52.6  | 41.1   | 61.1      |  |
|                          | MEAN WET BULB               | 35.7  | 39.1  | 47.4  | 52.7  | 63.4  | 70.4  | 69.0  | 70.9  | 67.6  | 55.3  | 47.0  | 37.4   | 54.7      |  |
|                          | MEAN DEW POINT              | 29.0  | 30.9  | 40.8  | 46.0  | 59.7  | 65.8  | 64.2  | 67.2  | 64.7  | 51.9  | 41.9  | 31.8   | 49.5      |  |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | MAXIMUM >= 90°              | 0     | 0     | 0     | 0     | 1     | 18    | 10    | 19    | 0     | 0     | 0     | 0      | 48        |  |
|                          | MAXIMUM <= 32°              | 6     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 6         |  |
| MINIMUM <= 32°           | 19                          | 16    | 4     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 16    | 57     |           |  |
| MINIMUM <= 0°            | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |           |  |
| H/C                      | HEATING DEGREE DAYS         | 767   | 535   | 362   | 181   | 19    | 0     | 0     | 0     | 7     | 183   | 364   | 736    | 3154      |  |
|                          | COOLING DEGREE DAYS         | 0     | 0     | 8     | 45    | 170   | 451   | 422   | 444   | 261   | 21    | 0     | 0      | 1822      |  |
| RH                       | MEAN (PERCENT)              | 69    | 61    | 67    | 64    | 75    | 66    | 66    | 71    | 79    | 79    | 73    | 73     | 70        |  |
|                          | HOUR 01 LST                 | 75    | 71    | 77    | 80    | 87    | 84    | 79    | 86    | 89    | 87    | 86    | 80     | 82        |  |
|                          | HOUR 07 LST                 | 82    | 79    | 81    | 78    | 82    | 75    | 76    | 82    | 87    | 87    | 89    | 81     | 82        |  |
|                          | HOUR 13 LST                 | 55    | 48    | 52    | 45    | 61    | 47    | 49    | 52    | 64    | 64    | 50    | 59     | 54        |  |
|                          | HOUR 19 LST                 | 64    | 52    | 60    | 55    | 70    | 58    | 57    | 67    | 79    | 81    | 71    | 72     | 66        |  |
| S                        | PERCENT POSSIBLE SUNSHINE   |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| W/O                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | HEAVY FOG(VISBY <= 1/4 MI)  | 1     | 0     | 1     | 2     | 0     | 0     | 0     | 0     | 1     | 4     | 1     | 3      | 13        |  |
|                          | THUNDERSTORMS               | 0     | 0     | 1     | 5     | 12    | 6     | 7     | 8     | 8     | 3     | 0     | 2      | 52        |  |
| CLOUDNESS                | SUNRISE-SUNSET: (OKTAS)     |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SATELLITE (> 12,000 FT.)    |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | MIDNIGHT-MIDNIGHT: (OKTAS)  |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| SATELLITE (> 12,000 FT.) |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| NUMBER OF DAYS WITH:     |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| CLEAR                    |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| PARTLY CLOUDY            |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| CLOUDY                   |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| PR                       | MEAN STATION PRESS. (IN.)   | 29.36 | 29.44 | 29.39 | 29.28 | 29.29 | 29.18 | 29.26 | 29.32 | 29.32 | 29.30 | 29.37 | 29.36  | 29.32     |  |
|                          | MEAN SEA-LEVEL PRESS. (IN.) | 30.11 | 30.19 | 30.13 | 30.01 | 30.02 | 29.89 | 29.98 | 30.04 | 30.04 | 30.04 | 30.11 | 30.12  | 30.06     |  |
| WINDS                    | RESULTANT SPEED (MPH)       | 1.6   | 1.3   | 0.3   | 2.1   | 0.8   | 1.4   | 1.1   | 0.4   | 0.2   | 0.4   | 1.4   | 1.6    | 0.7       |  |
|                          | RES. DIR. (TENS OF DEGS.)   | 30    | 29    | 03    | 23    | 16    | 29    | 27    | 36    | 14    | 27    | 35    | 30     | 29        |  |
|                          | MEAN SPEED (MPH)            | 5.2   | 6.4   | 6.1   | 5.8   | 4.9   | 4.3   | 4.6   | 3.9   | 2.8   | 4.5   | 3.5   | 5.5    | 4.8       |  |
|                          | PREVAIL.DIR.(TENS OF DEGS.) | 33    | 17    | 17    | 16    | 17    | 27    | 18    | 18    | 17    | 17    | 01    | 01     | 17        |  |
|                          | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SPEED (MPH)                 | 29    | 33    | 30    | 32    | 24    | 48    | 23    | 29    | 31    | 24    | 23    | 31     | 48        |  |
|                          | DIR. (TENS OF DEGS.)        | 26    | 23    | 33    | 13    | 32    | 25    | 32    | 20    | 36    | 36    | 02    | 24     | 25        |  |
|                          | DATE OF OCCURRENCE          | 07    | 11    | 01    | 13    | 16    | 11    | 16    | 17    | 08    | 18    | 11    | 09     | JUN 11    |  |
|                          | MAXIMUM 3-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SPEED (MPH)                 | 44    | 48    | 39    | 49    | 39    | 63    | 31    | 35    | 35    | 31    | 31    | 44     | 63        |  |
| DIR. (TENS OF DEGS.)     | 28                          | 21    | 33    | 22    | 33    | 20    | 19    | 20    | 35    | 02    | 01    | 21    | 20     |           |  |
| DATE OF OCCURRENCE       | 07                          | 11    | 01    | 10    | 16    | 11    | 30    | 17    | 08    | 18    | 11    | 09    | JUN 11 |           |  |
| PRECIPITATION            | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | TOTAL (IN.)                 | 5.11  | 2.87  | 5.28  | 3.27  | 7.44  | 0.73  | 4.32  | 2.98  | 12.38 | 7.03  | 3.74  | 7.44   | 62.59     |  |
|                          | GREATEST 24-HOUR (IN.)      | 3.90  | 1.12  | 1.44  | 0.88  | 1.70  | 0.40  | 2.79  | 1.64  | 6.67  | 1.72  | 2.67  | 2.68   | 6.67      |  |
|                          | DATE OF OCCURRENCE          | 05-06 | 18    | 25-26 | 10    | 15-16 | 11    | 05    | 27-28 | 20-21 | 04-05 | 10-11 | 08-09  | SEP 20-21 |  |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | PRECIPITATION 0.01          | 9     | 7     | 10    | 9     | 15    | 4     | 9     | 12    | 12    | 17    | 6     | 11     | 121       |  |
| PRECIPITATION 0.10       | 0                           | 4     | 10    | 6     | 11    | 2     | 7     | 7     | 9     | 10    | 4     | 9     | 79     |           |  |
| PRECIPITATION 1.00       | 1                           | 1     | 2     | 0     | 3     | 0     | 1     | 0     | 4     | 2     | 1     | 4     | 19     |           |  |
| SNOWFALL                 | SNOW,ICE PELLETS,HAIL       |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | TOTAL (IN.)                 | T     | T     | T     | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7    | 0.7       |  |
|                          | GREATEST 24-HOUR (IN.)      | T     | T     | T     | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7    | 0.7       |  |
|                          | DATE OF OCCURRENCE          | 20+   | 22+   | 01    | 07    |       |       |       |       |       |       |       | 05     | DEC 05    |  |
|                          | MAXIMUM SNOW DEPTH (IN.)    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |  |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| SNOWFALL >= 1.0          | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |           |  |

# NORMALS, MEANS, AND EXTREMES CHATTANOOGA (KCHA)

LATITUDE:  
35 ° 2 'N

LONGITUDE:  
-85 ° 12'W

ELEVATION (FT):  
GRND: 671 BARO: 691

TIME ZONE:  
EASTERN (UTC -5)

WBAN: 13882

| ELEMENT                                  |   | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | YEAR     |
|--|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| TEMPERATURE °F                           | NORMAL DAILY MAXIMUM                              | 30   | 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 DAILY MAXIMUM                                | 82   | 49.9  | 52.8  | 62.3  | 71.7  | 80.0  | 86.3  | 89.6  | 89.0  | 82.6  | 73.0  | 60.6  | 51.8  | 70.8     |
|  | HIGHEST DAILY MAXIMUM                             | 70   | 78    | 79    | 88    | 93    | 99    | 104   | 106   | 105   | 102   | 94    | 84    | 78    | 106      |
|  | YEAR OF OCCURRENCE                                |      | 1949  | 1989  | 2007  | 1942  | 1941  | 1952  | 1952  | 2007  | 1954  | 1954  | 2005  | 1951  | JUL 1952 |
|  | MEAN OF EXTREME MAXS.                             | 82   | 67.8  | 72.0  | 79.5  | 86.5  | 89.8  | 94.8  | 96.7  | 96.0  | 92.6  | 84.5  | 76.6  | 68.8  | 83.8     |
|  | NORMAL DAILY MINIMUM                              | 30   | 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     |
|  | MEAN DAILY MINIMUM                                | 82   | 31.1  | 32.5  | 40.0  | 47.8  | 56.7  | 64.4  | 69.0  | 68.2  | 61.2  | 49.2  | 38.8  | 32.8  | 49.3     |
|  | LOWEST DAILY MINIMUM                              | 70   | -10   | 1     | 8     | 25    | 34    | 41    | 51    | 50    | 36    | 22    | 4     | -2    | -10      |
|  | YEAR OF OCCURRENCE                                |      | 1985  | 1958  | 1960  | 1992  | 1971  | 1972  | 1972  | 1946  | 1967  | 1952  | 1950  | 1983  | JAN 1985 |
|  | MEAN OF EXTREME MINS.                             | 82   | 12.0  | 16.0  | 23.6  | 31.9  | 41.9  | 53.4  | 60.2  | 59.7  | 47.8  | 32.9  | 23.4  | 16.2  | 34.9     |
|  | NORMAL DRY BULB                                   | 30   | 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     |
|  | MEAN DRY BULB                                     | 82   | 40.5  | 42.7  | 51.2  | 59.8  | 68.4  | 75.4  | 79.3  | 78.6  | 71.9  | 61.1  | 49.7  | 42.3  | 60.1     |
|  | MEAN WET BULB                                     | 26   | 35.8  | 38.4  | 44.7  | 52.3  | 61.2  | 68.1  | 71.4  | 70.7  | 65.0  | 54.7  | 45.2  | 38.1  | 53.8     |
|  | MEAN DEW POINT                                    | 26   | 31.9  | 34.3  | 40.0  | 47.8  | 58.3  | 65.9  | 69.3  | 68.6  | 62.5  | 51.9  | 41.8  | 34.4  | 50.6     |
|  | NORMAL NO. DAYS WITH:<br>MAXIMUM >= 90            | 30   | 0.0   | 0.0   | 0.0   | 0.2   | 1.3   | 9.0   | 17.1  | 14.0  | 4.7   | 0.1   | 0.0   | 0.0   | 46.4     |
|  | MAXIMUM <= 32                                     | 30   | 2.3   | 1.0   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.0   | 4.4      |
| MINIMUM <= 32                            | 30  | 18.8 | 14.6  | 6.9   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.6   | 8.6   | 16.6  | 67.5  |          |
| MINIMUM <= 0                             | 30  | 0.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | *     | 0.1   |          |
| H/C                                      | NORMAL HEATING DEG. DAYS                          | 30   | 797   | 618   | 432   | 195   | 48    | 2     | 0     | 0     | 16    | 180   | 442   | 697   | 3427     |
|  | NORMAL COOLING DEG. DAYS                          | 30   | 0     | 0     | 5     | 32    | 124   | 312   | 450   | 418   | 229   | 35    | 2     | 1     | 1608     |
| RH                                       | NORMAL (PERCENT)                                  | 30   | 72    | 69    | 66    | 65    | 72    | 74    | 74    | 75    | 76    | 75    | 74    | 73    | 72       |
|  | HOURLY 01 LST                                     | 30   | 79    | 77    | 76    | 78    | 87    | 87    | 87    | 88    | 89    | 88    | 83    | 80    | 83       |
|  | HOURLY 07 LST                                     | 30   | 81    | 82    | 82    | 85    | 89    | 90    | 90    | 92    | 92    | 91    | 86    | 83    | 87       |
|  | HOURLY 13 LST                                     | 30   | 63    | 58    | 55    | 49    | 55    | 57    | 57    | 58    | 59    | 55    | 59    | 62    | 57       |
|  | HOURLY 19 LST                                     | 30   | 66    | 58    | 53    | 49    | 58    | 60    | 62    | 64    | 66    | 68    | 68    | 68    | 62       |
| S  | PERCENT POSSIBLE SUNSHINE                         | 66   | 43    | 49    | 53    | 61    | 65    | 65    | 62    | 63    | 64    | 63    | 53    | 44    | 57       |
| W/O                                      | MEAN NO. DAYS WITH:<br>HEAVY FOG(VISBY <= 1/4 MI) | 46   | 2.8   | 1.5   | 1.2   | 1.3   | 2.2   | 1.6   | 1.5   | 1.9   | 3.3   | 4.8   | 3.3   | 2.4   | 27.8     |
|  | THUNDERSTORMS                                     | 62   | 1.3   | 2.0   | 3.6   | 4.8   | 7.1   | 9.0   | 11.0  | 8.8   | 4.0   | 1.4   | 1.5   | 0.6   | 55.1     |
| CLOUDNESS                                | MEAN:<br>SUNRISE-SUNSET (OKTAS)                   |      |       |       |       |       |       |       |       |       |       |       |       |       |          |
|  | MIDNIGHT-MIDNIGHT (OKTAS)                         |      |       |       |       |       |       |       |       |       |       |       |       |       |          |
|  | MEAN NO. DAYS WITH:<br>CLEAR                      | 1    | 1.0   | 2.0   | 4.0   |       | 13.0  | 10.0  |       |       |       |       |       |       |          |
|  | PARTLY CLOUDY                                     |      |       | 2.0   | 1.0   |       | 5.0   | 6.0   |       |       |       |       |       |       |          |
| CLOUDY                                   | 1   | 8.0  | 6.0   | 8.0   |       | 2.0   | 5.0   |       |       |       |       |       |       |       |          |
| PR                                       | MEAN STATION PRESSURE(IN)                         | 26   | 29.41 | 29.38 | 29.33 | 29.28 | 29.29 | 29.28 | 29.27 | 29.31 | 29.33 | 29.37 | 29.40 | 29.42 | 29.34    |
|  | MEAN SEA-LEVEL PRES. (IN)                         | 26   | 30.16 | 30.12 | 30.08 | 30.01 | 30.01 | 30.00 | 30.02 | 30.02 | 30.05 | 30.10 | 30.14 | 30.16 | 30.07    |
| WINDS                                    | MEAN SPEED (MPH)                                  | 26   | 5.9   | 6.1   | 6.6   | 6.2   | 5.2   | 4.5   | 4.3   | 4.0   | 4.2   | 4.2   | 4.8   | 5.4   | 5.1      |
|  | PREVAIL.DIR(TENS OF DEGS)                         | 41   | 19    | 36    | 19    | 19    | 19    | 19    | 19    | 19    | 02    | 36    | 19    | 19    | 19       |
|  | MAXIMUM 2-MINUTE:<br>SPEED (MPH)                  | 14   | 35    | 33    | 44    | 32    | 37    | 48    | 44    | 43    | 33    | 35    | 33    | 31    | 48       |
|  | DIR. (TENS OF DEGS)                               |      | 26    | 23    | 32    | 13    | 29    | 25    | 30    | 06    | 29    | 29    | 25    | 24    | 25       |
|  | YEAR OF OCCURRENCE                                |      | 2008  | 2009  | 1997  | 2009  | 2004  | 2009  | 1997  | 1996  | 2002  | 2001  | 2000  | 2009  | JUN 2009 |
|  | MAXIMUM 3-SECOND<br>SPEED (MPH)                   | 14   | 46    | 48    | 54    | 49    | 51    | 63    | 53    | 53    | 43    | 49    | 41    | 44    | 63       |
|  | DIR. (TENS OF DEGS)                               |      | 28    | 21    | 31    | 22    | 28    | 20    | 31    | 02    | 32    | 29    | 27    | 21    | 20       |
|  | YEAR OF OCCURRENCE                                |      | 2008  | 2009  | 1997  | 2009  | 2004  | 2009  | 1997  | 2002  | 2006  | 2001  | 2003  | 2009  | JUN 2009 |
| PRECIPITATION                            | NORMAL (IN)                                       | 30   | 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    |
|  | MAXIMUM MONTHLY (IN)                              | 70   | 12.28 | 11.03 | 16.32 | 11.92 | 11.19 | 9.40  | 11.93 | 7.54  | 14.18 | 9.91  | 13.59 | 13.68 | 16.32    |
|  | YEAR OF OCCURRENCE                                |      | 1947  | 1944  | 1980  | 1964  | 2003  | 1949  | 1994  | 1975  | 1977  | 1949  | 1948  | 1961  | MAR 1980 |
|  | MINIMUM MONTHLY (IN)                              | 70   | 0.90  | 0.62  | 1.17  | 0.44  | 0.54  | 0.63  | 0.20  | 0.45  | 0.34  | 0.22  | 0.93  | 0.86  | 0.20     |
|  | YEAR OF OCCURRENCE                                |      | 1986  | 1941  | 1967  | 1942  | 1941  | 1988  | 1957  | 1999  | 1941  | 1991  | 1953  | 1965  | JUL 1957 |
|  | MAXIMUM IN 24 HOURS (IN)                          | 70   | 4.44  | 4.39  | 6.53  | 4.11  | 4.23  | 4.85  | 5.77  | 3.91  | 6.67  | 4.19  | 4.56  | 5.25  | 6.67     |
|  | YEAR OF OCCURRENCE                                |      | 1949  | 1995  | 1973  | 2000  | 2003  | 1949  | 1979  | 2008  | 2009  | 1995  | 1948  | 1942  | SEP 2009 |
|  | NORMAL NO. DAYS WITH:<br>PRECIPITATION >= 0.01    | 30   | 11.8  | 10.0  | 12.2  | 9.4   | 10.6  | 10.6  | 11.2  | 9.6   | 8.7   | 7.1   | 9.8   | 11.2  | 122.2    |
|  | PRECIPITATION >= 1.00                             | 30   | 1.8   | 1.5   | 1.7   | 1.2   | 1.1   | 1.1   | 1.4   | 1.0   | 1.2   | 1.0   | 1.6   | 1.4   | 16.0     |
| SNOWFALL                                 | NORMAL (IN)                                       | 30   | 2.0   | 1.3   | 1.2   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.*   | 0.*   | 0.1   | 4.8      |
|  | MAXIMUM MONTHLY (IN)                              | 72   | 10.2  | 10.4  | 20.0  | 2.8   | T     | T     | 0.0   | 0.0   | T     | T     | 2.8   | 9.1   | 20.0     |
|  | YEAR OF OCCURRENCE                                |      | 1988  | 1960  | 1993  | 1987  | 2006  | 2008  |       |       | 2006  | 2008  | 1950  | 1963  | MAR 1993 |
|  | MAXIMUM IN 24 HOURS (IN)                          | 72   | 10.2  | 8.7   | 20.0  | 2.8   | T     | T     | 0.0   | 0.0   | T     | T     | 2.8   | 8.9   | 20.0     |
|  | YEAR OF OCCURRENCE'                               |      | 1988  | 1960  | 1993  | 1987  | 1944  | 1995  |       |       | 2006  | 1993  | 1950  | 1963  | MAR 1993 |
|  | MAXIMUM SNOW DEPTH (IN)                           | 54   | 47    | 6     | 19    | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 3     | 47       |
|  | YEAR OF OCCURRENCE                                |      | 1948  | 1960  | 1993  | 1987  |       |       |       |       |       |       | 1950  | 1963  | JAN 1948 |
| NORMAL NO. DAYS WITH:<br>SNOWFALL >= 1.0 | 30  | 0.5  | 0.3   | 0.2   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.1   |          |

**PRECIPITATION (inches) 2009 CHATTANOOGA (KCHA)**

| YEAR           | JAN  | FEB  | MAR   | APR  | MAY   | JUN  | JUL   | AUG  | SEP   | OCT  | NOV  | DEC   | ANNUAL |
|----------------|------|------|-------|------|-------|------|-------|------|-------|------|------|-------|--------|
| 1980           | 4.69 | 2.16 | 16.32 | 4.78 | 4.25  | 2.67 | 1.28  | 0.96 | 4.62  | 1.56 | 4.68 | 0.90  | 48.87  |
| 1981           | 1.91 | 5.07 | 4.44  | 3.81 | 3.38  | 3.70 | 3.99  | 4.21 | 2.74  | 2.80 | 4.85 | 5.02  | 45.92  |
| 1982           | 8.29 | 5.95 | 4.80  | 4.48 | 1.44  | 2.76 | 4.79  | 6.42 | 1.34  | 1.98 | 7.65 | 8.05  | 57.95  |
| 1983           | 2.65 | 4.52 | 3.66  | 6.40 | 6.65  | 3.29 | 2.52  | 1.34 | 1.15  | 2.64 | 9.57 | 8.34  | 52.73  |
| 1984           | 3.25 | 4.40 | 3.75  | 6.28 | 6.57  | 2.52 | 6.32  | 2.48 | 0.51  | 6.38 | 3.44 | 1.84  | 47.74  |
| 1985           | 3.45 | 4.95 | 2.27  | 2.81 | 4.36  | 2.22 | 3.10  | 4.93 | 0.93  | 4.83 | 3.34 | 2.36  | 39.55  |
| 1986           | 0.90 | 3.78 | 1.42  | 1.28 | 3.14  | 1.64 | 2.61  | 2.78 | 5.86  | 6.66 | 7.60 | 4.82  | 42.49  |
| 1987           | 6.29 | 7.16 | 5.13  | 1.66 | 4.97  | 5.12 | 1.84  | 3.53 | 4.07  | 1.13 | 2.40 | 3.25  | 46.55  |
| 1988           | 7.10 | 1.87 | 1.83  | 3.30 | 2.20  | 0.63 | 5.85  | 4.07 | 6.76  | 2.10 | 4.64 | 3.54  | 43.89  |
| 1989           | 5.30 | 7.16 | 5.86  | 3.99 | 4.56  | 9.19 | 9.93  | 3.46 | 11.22 | 1.77 | 5.45 | 3.71  | 71.60  |
| 1990           | 7.46 | 9.74 | 9.47  | 2.86 | 6.49  | 3.35 | 4.69  | 2.29 | 3.69  | 4.45 | 3.73 | 10.34 | 68.56  |
| 1991           | 2.71 | 8.12 | 6.58  | 6.78 | 4.58  | 4.11 | 3.59  | 4.00 | 2.37  | 0.22 | 4.88 | 8.02  | 55.96  |
| 1992           | 4.33 | 4.63 | 4.89  | 2.08 | 1.99  | 8.87 | 5.33  | 3.07 | 4.71  | 4.48 | 5.88 | 5.60  | 55.86  |
| 1993           | 5.16 | 3.69 | 7.40  | 3.34 | 3.37  | 1.64 | 1.30  | 2.12 | 1.68  | 1.80 | 3.33 | 5.26  | 40.09  |
| 1994           | 6.36 | 7.41 | 11.02 | 5.79 | 3.28  | 7.26 | 11.93 | 5.05 | 2.94  | 5.05 | 3.74 | 3.87  | 73.70  |
| 1995           | 5.27 | 6.52 | 3.64  | 2.22 | 3.77  | 3.42 | 4.23  | 4.88 | 5.53  | 7.13 | 4.54 | 3.83  | 54.98  |
| 1996           | 7.99 | 2.63 | 8.90  | 3.87 | 1.98  | 3.52 | 5.55  | 3.63 | 7.19  | 1.37 | 5.47 | 3.45  | 55.55  |
| 1997           | 6.14 | 5.28 | 5.11  | 4.22 | 5.82  | 5.99 | 4.16  | 3.50 | 5.56  | 5.24 | 1.97 | 3.30  | 56.29  |
| 1998           | 6.64 | 5.91 | 7.29  | 6.95 | 1.41  | 5.82 | 4.75  | 2.86 | 1.47  | 0.67 | 3.16 | 6.31  | 53.24  |
| 1999           | 9.80 | 3.75 | 3.99  | 4.17 | 5.03  | 6.97 | 2.82  | 0.45 | 0.62  | 3.79 | 4.20 | 1.83  | 47.42  |
| 2000           | 5.08 | 2.43 | 4.52  | 8.54 | 1.49  | 4.63 | 3.37  | 4.72 | 3.59  | 0.51 | 7.15 | 2.09  | 48.12  |
| 2001           | 5.40 | 4.72 | 5.38  | 3.02 | 4.37  | 5.71 | 7.36  | 2.61 | 4.51  | 1.98 | 4.84 | 5.08  | 54.98  |
| 2002           | 5.42 | 1.83 | 6.64  | 1.55 | 5.16  | 2.22 | 2.09  | 3.74 | 6.19  | 3.35 | 5.77 | 6.74  | 50.70  |
| 2003           | 1.83 | 8.56 | 3.56  | 5.80 | 11.19 | 5.64 | 8.61  | 3.43 | 6.01  | 1.20 | 5.36 | 4.38  | 65.57  |
| 2004           | 3.60 | 4.88 | 4.36  | 1.93 | 3.92  | 4.16 | 7.47  | 2.74 | 8.28  | 4.62 | 7.61 | 6.60  | 60.17  |
| 2005           | 2.80 | 5.46 | 4.27  | 3.56 | 1.99  | 7.05 | 6.05  | 5.00 | 1.92  | 0.75 | 3.57 | 3.85  | 46.27  |
| 2006           | 5.19 | 2.05 | 1.94  | 5.93 | 3.48  | 2.20 | 4.47  | 4.74 | 4.10  | 5.67 | 3.48 | 3.42  | 46.67  |
| 2007           | 2.91 | 1.65 | 1.74  | 4.19 | 1.34  | 2.16 | 7.18  | 1.83 | 1.93  | 3.63 | 6.56 | 3.50  | 38.62  |
| 2008           | 3.18 | 4.44 | 6.54  | 3.22 | 2.28  | 2.87 | 4.40  | 4.42 | 0.89  | 2.69 | 2.65 | 9.75  | 47.33  |
| 2009           | 5.11 | 2.87 | 5.28  | 3.27 | 7.44  | 0.73 | 4.32  | 2.98 | 12.38 | 7.03 | 3.74 | 7.44  | 62.59  |
| POR=<br>82 YRS | 5.13 | 4.93 | 5.80  | 4.32 | 4.06  | 3.86 | 4.99  | 3.55 | 3.82  | 3.16 | 4.35 | 5.04  | 53.01  |

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**AVERAGE TEMPERATURE (°F) 2009 CHATTANOOGA (KCHA)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1980           | 40.7 | 36.8 | 47.8 | 57.8 | 67.2 | 73.8 | 82.8 | 82.2 | 74.0 | 57.2 | 49.8 | 41.2 | 59.3   |
| 1981           | 35.5 | 43.4 | 48.1 | 64.7 | 64.6 | 78.0 | 81.4 | 77.3 | 69.7 | 58.6 | 50.8 | 38.2 | 59.2   |
| 1982           | 36.0 | 43.4 | 53.4 | 55.9 | 70.2 | 74.2 | 79.6 | 76.7 | 70.0 | 60.5 | 50.9 | 48.0 | 59.9   |
| 1983           | 38.8 | 42.8 | 50.5 | 54.3 | 65.9 | 73.5 | 80.4 | 81.9 | 71.2 | 60.8 | 48.5 | 37.0 | 58.8   |
| 1984           | 35.5 | 43.2 | 48.2 | 56.8 | 64.4 | 77.4 | 76.2 | 76.6 | 68.0 | 66.7 | 46.5 | 49.0 | 59.0   |
| 1985           | 32.8 | 40.2 | 52.9 | 60.8 | 67.6 | 74.9 | 78.4 | 76.6 | 69.4 | 64.7 | 58.8 | 36.7 | 59.5   |
| 1986           | 38.4 | 47.1 | 51.8 | 61.0 | 70.2 | 78.4 | 82.8 | 78.0 | 74.0 | 62.0 | 54.8 | 41.5 | 61.7   |
| 1987           | 39.3 | 44.7 | 51.9 | 58.0 | 73.1 | 77.1 | 81.2 | 80.5 | 71.4 | 54.9 | 52.0 | 45.5 | 60.8   |
| 1988           | 35.1 | 41.0 | 52.0 | 60.3 | 67.0 | 76.9 | 79.0 | 80.5 | 72.4 | 55.3 | 51.7 | 42.3 | 59.5   |
| 1989           | 45.3 | 43.2 | 54.5 | 59.6 | 65.4 | 74.8 | 78.9 | 78.4 | 71.7 | 60.9 | 50.7 | 35.0 | 59.9   |
| 1990           | 46.8 | 51.5 | 54.6 | 60.5 | 67.5 | 76.9 | 79.4 | 80.2 | 74.6 | 61.3 | 53.4 | 46.4 | 62.8   |
| 1991           | 42.6 | 45.8 | 54.1 | 63.7 | 72.9 | 77.1 | 81.5 | 79.6 | 74.0 | 61.4 | 47.7 | 45.2 | 62.1   |
| 1992           | 42.1 | 46.9 | 49.9 | 59.2 | 64.3 | 71.4 | 78.2 | 73.5 | 71.3 | 58.3 | 49.3 | 42.5 | 58.9   |
| 1993           | 45.8 | 43.0 | 48.8 | 58.5 | 68.9 | 78.2 | 85.2 | 82.5 | 74.4 | 61.4 | 50.5 | 43.0 | 61.7   |
| 1994           | 36.2 | 46.0 | 50.7 | 64.0 | 66.1 | 77.7 | 77.6 | 77.1 | 70.5 | 61.4 | 54.4 | 47.3 | 60.8   |
| 1995           | 42.1 | 42.1 | 54.6 | 62.1 | 69.2 | 74.9 | 80.7 | 81.6 | 70.3 | 59.7 | 45.0 | 39.9 | 60.2   |
| 1996           | 38.7 | 41.1 | 46.8 | 57.2 | 70.7 | 75.9 | 79.0 | 76.8 | 69.4 | 60.4 | 47.0 | 44.7 | 59.0   |
| 1997           | 41.5 | 47.4 | 57.1 | 56.2 | 63.7 | 72.3 | 79.9 | 76.6 | 72.5 | 60.4 | 46.0 | 41.0 | 59.6   |
| 1998           | 44.5 | 46.4 | 50.7 | 58.9 | 72.5 | 78.4 | 81.4 | 79.2 | 77.2 | 64.9 | 53.2 | 47.8 | 62.9   |
| 1999           | 45.1 | 47.9 | 48.7 | 64.5 | 68.6 | 76.8 | 81.3 | 81.7 | 73.4 | 62.2 | 55.5 | 45.1 | 62.6   |
| 2000           | 41.2 | 48.9 | 56.2 | 59.2 | 72.6 | 76.9 | 80.5 | 79.7 | 71.7 | 63.6 | 49.3 | 36.2 | 61.3   |
| 2001           | 37.7 | 47.8 | 48.5 | 63.4 | 69.5 | 74.7 | 79.5 | 78.8 | 71.1 | 59.1 | 56.1 | 47.8 | 61.2   |
| 2002           | 44.3 | 44.5 | 53.1 | 65.1 | 67.7 | 77.4 | 81.2 | 80.9 | 76.1 | 64.8 | 48.0 | 41.9 | 62.1   |
| 2003           | 36.4 | 42.8 | 54.1 | 61.7 | 68.7 | 73.6 | 77.6 | 79.3 | 71.3 | 60.7 | 54.9 | 40.5 | 60.1   |
| 2004           | 39.8 | 42.3 | 55.8 | 60.2 | 71.9 | 76.1 | 78.1 | 75.8 | 72.2 | 66.0 | 54.4 | 41.8 | 61.2   |
| 2005           | 45.5 | 46.9 | 50.5 | 59.5 | 65.5 | 76.3 | 80.0 | 80.6 | 75.5 | 62.8 | 52.3 | 39.0 | 61.2   |
| 2006           | 47.0 | 42.2 | 53.1 | 65.3 | 67.6 | 76.7 | 80.7 | 82.7 | 71.0 | 59.8 | 51.1 | 46.2 | 62.0   |
| 2007           | 43.6 | 41.8 | 59.4 | 58.4 | 71.3 | 78.9 | 78.4 | 85.7 | 76.3 | 66.3 | 51.4 | 49.0 | 63.4   |
| 2008           | 40.1 | 45.0 | 52.2 | 61.0 | 68.4 | 78.4 | 79.8 | 79.3 | 74.6 | 61.3 | 47.7 | 45.1 | 61.1   |
| 2009           | 40.0 | 45.7 | 53.3 | 60.1 | 69.6 | 79.8 | 78.4 | 79.1 | 73.3 | 59.6 | 52.6 | 41.1 | 61.1   |
| POR=<br>82 YRS | 40.5 | 42.7 | 51.2 | 59.8 | 68.4 | 75.4 | 79.3 | 78.6 | 71.9 | 61.1 | 49.7 | 42.3 | 60.1   |

**HEATING DEGREE DAYS (base 65°F) 2009 CHATTANOOGA (KCHA)**

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1980-81 | 0   | 0   | 24  | 246 | 450 | 736 | 907 | 600 | 515 | 70  | 81  | 0   | 3629  |
| 1981-82 | 0   | 0   | 31  | 211 | 422 | 823 | 890 | 597 | 371 | 275 | 13  | 0   | 3633  |
| 1982-83 | 0   | 0   | 29  | 202 | 418 | 528 | 807 | 616 | 447 | 321 | 42  | 0   | 3410  |
| 1983-84 | 0   | 0   | 38  | 146 | 487 | 863 | 910 | 626 | 515 | 246 | 100 | 2   | 3933  |
| 1984-85 | 0   | 0   | 27  | 40  | 550 | 488 | 990 | 687 | 381 | 158 | 28  | 4   | 3353  |
| 1985-86 | 0   | 0   | 32  | 67  | 198 | 869 | 818 | 497 | 402 | 148 | 23  | 0   | 3054  |
| 1986-87 | 0   | 1   | 0   | 148 | 306 | 722 | 789 | 562 | 399 | 238 | 0   | 0   | 3165  |
| 1987-88 | 0   | 0   | 4   | 309 | 384 | 597 | 919 | 688 | 396 | 164 | 26  | 1   | 3488  |
| 1988-89 | 0   | 0   | 1   | 312 | 391 | 697 | 602 | 608 | 333 | 220 | 92  | 0   | 3256  |
| 1989-90 | 0   | 0   | 29  | 164 | 423 | 924 | 561 | 371 | 325 | 171 | 48  | 0   | 3016  |
| 1990-91 | 0   | 0   | 19  | 154 | 344 | 571 | 689 | 534 | 349 | 75  | 7   | 0   | 2742  |
| 1991-92 | 0   | 0   | 17  | 142 | 513 | 610 | 701 | 520 | 457 | 207 | 98  | 3   | 3268  |
| 1992-93 | 0   | 0   | 8   | 202 | 465 | 689 | 586 | 612 | 496 | 197 | 21  | 0   | 3276  |
| 1993-94 | 0   | 0   | 15  | 155 | 439 | 675 | 888 | 526 | 437 | 116 | 39  | 0   | 3290  |
| 1994-95 | 0   | 0   | 7   | 121 | 310 | 544 | 700 | 636 | 326 | 128 | 35  | 1   | 2808  |
| 1995-96 | 0   | 0   | 22  | 192 | 595 | 772 | 809 | 687 | 559 | 237 | 28  | 1   | 3902  |
| 1996-97 | 0   | 0   | 17  | 167 | 534 | 623 | 723 | 488 | 248 | 271 | 80  | 7   | 3158  |
| 1997-98 | 0   | 0   | 0   | 194 | 561 | 738 | 630 | 516 | 459 | 193 | 14  | 2   | 3307  |
| 1998-99 | 0   | 0   | 0   | 74  | 348 | 535 | 613 | 470 | 497 | 96  | 9   | 0   | 2642  |
| 1999-00 | 0   | 0   | 8   | 121 | 279 | 611 | 731 | 460 | 269 | 174 | 0   | 0   | 2653  |
| 2000-01 | 0   | 0   | 13  | 102 | 474 | 885 | 839 | 477 | 503 | 115 | 7   | 0   | 3415  |
| 2001-02 | 0   | 0   | 25  | 200 | 263 | 529 | 635 | 568 | 379 | 100 | 60  | 0   | 2759  |
| 2002-03 | 0   | 0   | 0   | 88  | 512 | 710 | 878 | 614 | 333 | 114 | 3   | 0   | 3252  |
| 2003-04 | 0   | 0   | 21  | 142 | 309 | 754 | 777 | 655 | 284 | 180 | 34  | 0   | 3156  |
| 2004-05 | 0   | 0   | 2   | 44  | 321 | 713 | 598 | 501 | 446 | 167 | 69  | 0   | 2861  |
| 2005-06 | 0   | 0   | 0   | 155 | 383 | 800 | 552 | 634 | 372 | 73  | 57  | 0   | 3026  |
| 2006-07 | 0   | 0   | 11  | 204 | 414 | 575 | 655 | 644 | 214 | 234 | 6   | 0   | 2957  |
| 2007-08 | 0   | 0   | 0   | 79  | 401 | 489 | 763 | 571 | 387 | 150 | 17  | 0   | 2857  |
| 2008-09 | 0   | 0   | 0   | 171 | 510 | 610 | 767 | 535 | 362 | 181 | 19  | 0   | 3155  |
| 2009-   | 0   | 0   | 7   | 183 | 364 | 736 |     |     |     |     |     |     |       |

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**COOLING DEGREE DAYS (base 65°F) 2009 CHATTANOOGA (KCHA)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1980 | 0   | 0   | 0   | 8   | 111 | 272 | 562 | 540 | 300 | 10  | 1   | 0   | 1804  |
| 1981 | 0   | 0   | 0   | 68  | 77  | 400 | 513 | 385 | 178 | 21  | 2   | 0   | 1644  |
| 1982 | 0   | 0   | 19  | 9   | 184 | 283 | 460 | 368 | 187 | 68  | 1   | 7   | 1586  |
| 1983 | 0   | 0   | 2   | 6   | 78  | 264 | 485 | 529 | 230 | 22  | 0   | 0   | 1616  |
| 1984 | 0   | 0   | 0   | 8   | 86  | 379 | 356 | 367 | 124 | 102 | 0   | 0   | 1422  |
| 1985 | 0   | 0   | 12  | 38  | 118 | 310 | 422 | 366 | 171 | 64  | 16  | 0   | 1517  |
| 1986 | 0   | 0   | 0   | 33  | 192 | 409 | 558 | 414 | 276 | 63  | 7   | 0   | 1952  |
| 1987 | 0   | 0   | 0   | 34  | 261 | 372 | 508 | 488 | 202 | 0   | 0   | 0   | 1865  |
| 1988 | 0   | 0   | 2   | 27  | 95  | 364 | 442 | 486 | 230 | 17  | 0   | 0   | 1663  |
| 1989 | 0   | 2   | 16  | 68  | 109 | 300 | 437 | 424 | 236 | 43  | 0   | 0   | 1635  |
| 1990 | 0   | 0   | 13  | 42  | 133 | 363 | 455 | 480 | 312 | 45  | 3   | 0   | 1846  |
| 1991 | 0   | 0   | 20  | 43  | 258 | 370 | 518 | 460 | 295 | 37  | 0   | 2   | 2003  |
| 1992 | 0   | 0   | 0   | 40  | 81  | 202 | 414 | 273 | 202 | 0   | 0   | 0   | 1212  |
| 1993 | 0   | 0   | 4   | 12  | 152 | 401 | 632 | 547 | 305 | 49  | 10  | 0   | 2112  |
| 1994 | 0   | 0   | 0   | 93  | 79  | 389 | 397 | 383 | 177 | 16  | 2   | 0   | 1536  |
| 1995 | 0   | 0   | 10  | 47  | 174 | 304 | 491 | 521 | 187 | 35  | 0   | 0   | 1769  |
| 1996 | 0   | 0   | 0   | 12  | 211 | 334 | 440 | 373 | 156 | 29  | 2   | 0   | 1557  |
| 1997 | 1   | 0   | 7   | 12  | 48  | 232 | 470 | 365 | 231 | 60  | 0   | 0   | 1426  |
| 1998 | 1   | 0   | 22  | 16  | 252 | 409 | 511 | 448 | 373 | 76  | 0   | 7   | 2115  |
| 1999 | 3   | 0   | 0   | 88  | 130 | 360 | 512 | 525 | 267 | 42  | 0   | 0   | 1927  |
| 2000 | 3   | 0   | 3   | 5   | 242 | 365 | 485 | 464 | 221 | 65  | 10  | 0   | 1863  |
| 2001 | 0   | 0   | 0   | 72  | 154 | 301 | 456 | 435 | 214 | 25  | 6   | 0   | 1663  |
| 2002 | 0   | 0   | 17  | 113 | 152 | 377 | 510 | 498 | 341 | 92  | 8   | 0   | 2108  |
| 2003 | 0   | 0   | 3   | 23  | 123 | 265 | 398 | 452 | 216 | 18  | 11  | 0   | 1509  |
| 2004 | 2   | 0   | 6   | 40  | 255 | 338 | 414 | 342 | 223 | 80  | 10  | 0   | 1710  |
| 2005 | 0   | 0   | 1   | 8   | 93  | 344 | 472 | 492 | 320 | 94  | 11  | 0   | 1835  |
| 2006 | 0   | 0   | 10  | 89  | 142 | 359 | 493 | 554 | 199 | 50  | 4   | 0   | 1900  |
| 2007 | 0   | 0   | 46  | 41  | 209 | 426 | 421 | 645 | 345 | 125 | 0   | 0   | 2258  |
| 2008 | 0   | 0   | 0   | 39  | 129 | 406 | 467 | 452 | 295 | 67  | 0   | 0   | 1855  |
| 2009 | 0   | 0   | 8   | 45  | 170 | 451 | 422 | 444 | 261 | 21  | 0   | 0   | 1822  |

**SNOWFALL (inches) 2009 CHATTANOOGA (KCHA)**

| YEAR           | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR  | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-------|
| 1980-81        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0 | T    | T   | 0.0  | 0.0 | 0.0 | 0.0 | T     |
| 1981-82        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.9  | 2.3 | T    | 0.0 | 0.0 | 0.0 | 5.3   |
| 1982-83        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 1.0  | 0.9 | 0.6  | 0.0 | 0.0 | 0.0 | 2.5   |
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.6  | 1.8 | T    | 0.0 | 0.0 | 0.0 | 2.4   |
| 1984-85        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 3.8  | 1.1 | 0.0  | 0.0 | 0.0 | 0.0 | 4.9   |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 2.0  | T   | 0.0  | 0.0 | 0.0 | 0.0 | 2.3   |
| 1986-87        | 0.0 | 0.0 | 0.0 | 0.0 | T   | T   | 6.5  | 0.0 | 0.9  | 2.8 | 0.0 | 0.0 | 10.2  |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 10.2 | T   | T    | 0.0 | 0.0 | 0.0 | 10.2  |
| 1988-89        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5  | 0.1 | 0.0  | 0.0 | 0.0 | 0.0 | 2.4   |
| 1989-90        | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | T    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.6   |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 0.2 | 2.0  | 0.0 | 0.0 | 0.0 | 2.2   |
| 1991-92        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0 | T    | 0.0 | T    | 0.0 | 0.0 | 0.0 | T     |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 2.7 | 20.0 | T   | 0.0 | 0.0 | 22.7  |
| 1993-94        | 0.0 | 0.0 | 0.0 | T   | 0.0 | T   | T    | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | T     |
| 1994-95        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1  | 1.0 | 0.0  | 0.0 | 0.0 | T   | 1.1   |
| 1995-96        | 0.0 | 0.0 | 0.0 | 0.0 |     |     | 4.5  |     |      |     |     |     |       |
| 1996-97        |     |     |     |     |     |     |      |     |      |     |     |     |       |
| 1997-98        |     |     |     |     |     | 1.9 |      |     |      |     | 0.0 |     |       |
| 1998-99        |     |     |     |     |     |     |      |     |      |     |     |     |       |
| 1999-00        |     |     |     |     |     |     |      |     |      |     |     |     |       |
| 2000-01        |     |     |     |     |     |     |      |     |      |     |     |     |       |
| 2001-02        |     |     |     |     |     |     |      |     |      |     |     |     |       |
| 2002-03        |     |     |     |     |     |     |      |     |      |     |     |     |       |
| 2003-04        |     |     |     |     |     |     | T    | 0.4 | 0.0  | T   | 0.0 | 0.0 |       |
| 2004-05        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | T   | T    | 0.0 | T   | 0.0 | T     |
| 2005-06        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.2 | 0.0  | T   | T   | 0.0 | 0.2   |
| 2006-07        | 0.0 | 0.0 | T   | 0.0 | T   | T   | 0.0  | 2.1 | 0.0  | 0.0 | 0.0 | 0.0 | 2.1   |
| 2007-08        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 1.6  | T   | 0.6  | 0.0 | 0.0 | T   | 2.2   |
| 2008-09        | 0.0 | 0.0 | 0.0 | T   | T   | T   | T    | T   | T    | T   | 0.0 | 0.0 | T     |
| 2009-          | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 |      |     |      |     |     |     |       |
| POR=<br>81 YRS | 0.0 | 0.0 | T   | T   | 0.1 | 0.6 | 1.5  | 1.0 | 0.6  | T   | T   | T   | 3.8   |

WBAN : 13882

**REFERENCE NOTES :**

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| <p>PAGE 1:<br/>THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3:<br/>H/C INDICATES HEATING AND COOLING DEGREE DAYS.<br/>RH INDICATES RELATIVE HUMIDITY<br/>W/O INDICATES WEATHER AND OBSTRUCTIONS<br/>S INDICATES SUNSHINE.<br/>PR INDICATES PRESSURE.<br/>CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL:<br/>T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.<br/>+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.<br/>BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.<br/>NORMALS ARE 30-YEAR AVERAGES (1971 - 2000).<br/>ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.<br/>PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.<br/>POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.<br/>WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.<br/>0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.<br/>CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.<br/>THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.<br/>CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.<br/>WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.</p> | <p>GENERAL CONTINUED:<br/>WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.<br/>RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.<br/>AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.<br/>SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.<br/>A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.<br/>DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.<br/>DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.<br/>WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.<br/>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.<br/>STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a></p> <p><b>NOTE:</b><br/>The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
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# 2009 CHATTANOOGA TENNESSEE (KCHA)

Chattanooga is located in the southern portion of the Great Valley of Tennessee, an area of the Tennessee River between the Cumberland Mountains to the west and the Appalachian Mountains to the east. Local topography is complex with a number of minor valleys and ridges giving a local relief of as much as 500 feet. The Tennessee River approaches Chattanooga from the northeast and forms a loop southwest to west to northwest of the city at an elevation of about 630 feet above mean sea level. Most of the city lies on the south side of the river. On the north and southwest sides, the terrain rises abruptly to about 1,200 feet above the river. This complex topography results in marked variations in air drainage, wind, and minimum temperatures within short distances. In winter the Cumberland Mountains have a moderating influence on the local climate by retarding the flow of cold air from the north and west.

Chattanooga enjoys a moderate climate, characterized by cool winters and quite warm summers. Because of the sheltering effect of the mountains, winter temperatures average about 3.0 degrees warmer than at stations on the southern Cumberland Plateau section of the state. Winter weather is changeable and alternates between cool spells with an occasional cold period, but extreme cold is rare. Temperatures fall as low as the freezing point on a little over one-half of the winter days, but temperatures below zero rarely occur. Snowfall from year to year is highly variable with some winters having little or none. Heavy snowfalls have occurred, but any accumulation of snow seldom remains on the ground more than a few days. Ice storms of freezing rain or glaze are not uncommon, occasionally midwinter icing becomes severe enough to do some damage in the area.

Summer temperatures are either in the high 80s or low 90s and temperatures over 100 degrees are unusual. Most afternoon temperatures are modified by thunderstorms. Temperatures frequently plunge 10 to 15 degrees in a matter of minutes during one of these showers.

Precipitation in the Chattanooga area is well distributed throughout the year with the greater amounts in wintertime when cyclonic storms from the Gulf of Mexico reach the area with greater intensity and frequency. A second peak rainfall period generally occurs in July, principally from thunderstorms that move into the area from the south and southwest. During any year there are usually a few of these storms that can be classified as severe, with hail and damaging winds.

The growing season averages 228 days. The average occurrence of last freezing temperature in spring is early April and the average first freezing temperature in the fall is early November.

Spring and autumn are very enjoyable seasons in Chattanooga, with many days being nearly ideal in temperature. To many, the fall months of September, October, and November are the most pleasant. Rainfall is at a minimum, sunshine at a relative maximum and the temperature range is comfortable.

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