

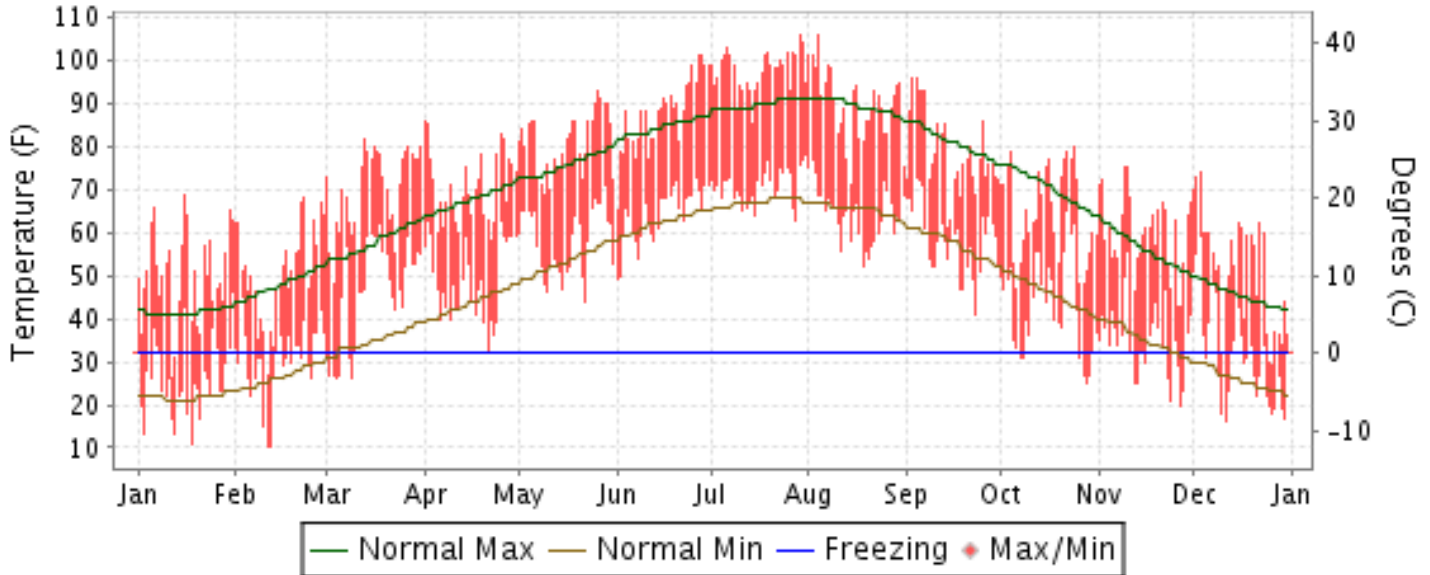


# 2012 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

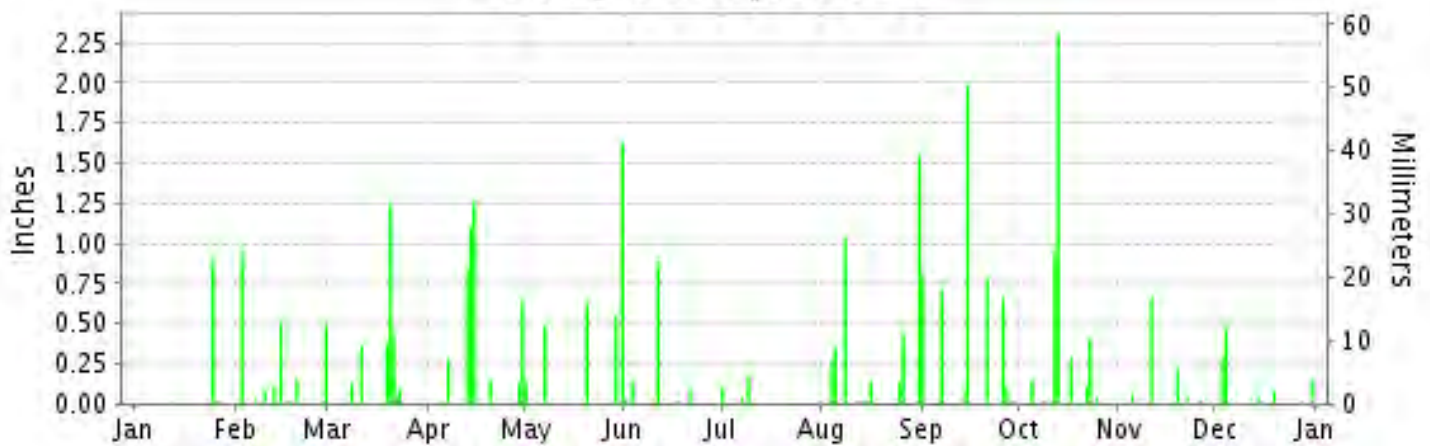
ISSN 0198-2923

## SPRINGFIELD, MISSOURI (KSGF)

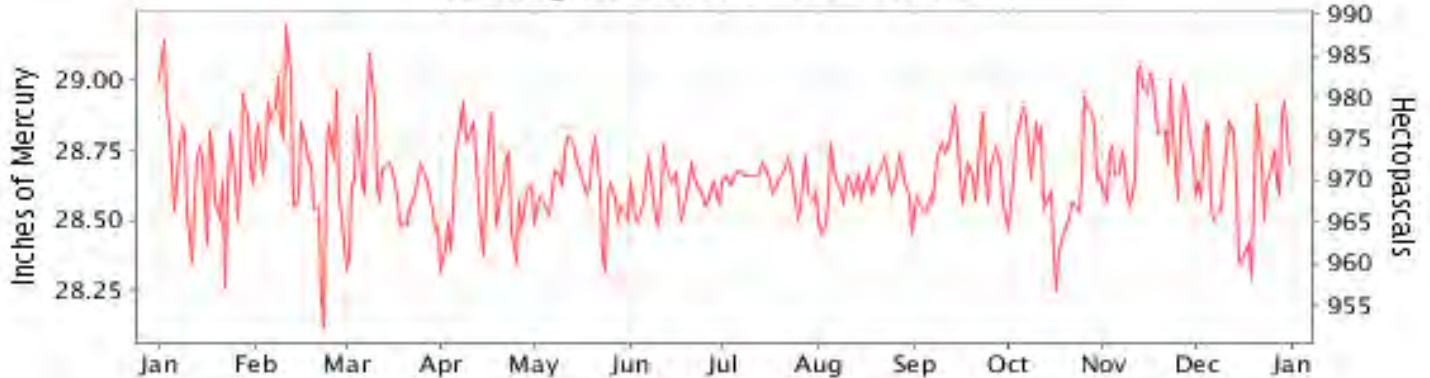
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2012

## SPRINGFIELD (KSGF)

LATITUDE: 37° 14'N      LONGITUDE: 93° 23'W      ELEVATION (FT): GRND: 1259 BARO: 1280      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13995

| ELEMENT              |                             | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |    |
|----------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F       | MEAN DAILY MAXIMUM          | 50.1  | 50.8  | 69.9  | 70.5  | 81.1  | 87.7  | 97.6  | 89.7  | 78.5  | 64.9  | 59.8  | 51.0   | 71.0      |    |
|                      | HIGHEST DAILY MAXIMUM       | 69    | 68    | 82    | 86    | 93    | 101   | 106   | 106   | 96    | 80    | 75    | 74     | 106       |    |
|                      | DATE OF OCCURRENCE          | 16    | 23    | 13    | 01    | 26    | 28+   | 29    | 04    | 04+   | 24    | 10+   | 03     | AUG 04    |    |
|                      | MEAN DAILY MINIMUM          | 26.1  | 30.4  | 46.2  | 48.8  | 58.1  | 64.3  | 70.9  | 64.3  | 58.4  | 43.1  | 35.0  | 31.4   | 48.1      |    |
|                      | LOWEST DAILY MINIMUM        | 11    | 10    | 26    | 32    | 44    | 49    | 63    | 52    | 41    | 25    | 20    | 16     | 10        |    |
|                      | DATE OF OCCURRENCE          | 18    | 12+   | 09+   | 21    | 22    | 01    | 28    | 18    | 23    | 28    | 27    | 11     | FEB 12+   |    |
|                      | AVERAGE DRY BULB            | 38.1  | 40.6  | 58.1  | 59.7  | 69.6  | 76.0  | 84.3  | 77.0  | 68.5  | 54.0  | 47.4  | 41.2   | 59.5      |    |
|                      | MEAN WET BULB               | 32.9  | 35.5  | 51.3  | 53.3  | 61.1  | 64.6  | 69.0  | 64.9  | 60.8  | 48.4  | 41.2  | 36.9   | 51.7      |    |
|                      | MEAN DEW POINT              | 24.8  | 28.0  | 44.9  | 47.4  | 55.0  | 57.6  | 60.9  | 57.0  | 55.9  | 42.7  | 34.4  | 31.3   | 45.0      |    |
|                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | MAXIMUM >= 90°              | 0     | 0     | 0     | 0     | 5     | 12    | 29    | 16    | 5     | 0     | 0     | 0      | 0         | 67 |
|                      | MAXIMUM <= 32°              | 2     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 3      | 6         | 6  |
| MINIMUM <= 32°       | 24                          | 17    | 8     | 1     | 0     | 0     | 0     | 0     | 0     | 7     | 11    | 19    | 87     | 87        |    |
| MINIMUM <= 0°        | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |    |
| H/C                  | HEATING DEGREE DAYS         | 828   | 702   | 239   | 195   | 31    | 8     | 0     | 0     | 41    | 355   | 521   | 730    | 3650      |    |
|                      | COOLING DEGREE DAYS         | 0     | 0     | 34    | 44    | 182   | 344   | 607   | 379   | 153   | 20    | 1     | 2      | 1766      |    |
| RH                   | MEAN (PERCENT)              | 63    | 65    | 66    | 66    | 63    | 56    | 49    | 55    | 69    | 68    | 65    | 72     | 63        |    |
|                      | HOUR 00 LST                 | 69    | 69    | 73    | 74    | 74    | 65    | 61    | 65    | 76    | 77    | 72    | 77     | 71        |    |
|                      | HOUR 06 LST                 | 73    | 79    | 82    | 80    | 81    | 72    | 72    | 75    | 84    | 80    | 78    | 82     | 78        |    |
|                      | HOUR 12 LST                 | 53    | 57    | 56    | 55    | 49    | 44    | 34    | 40    | 56    | 55    | 51    | 61     | 51        |    |
|                      | HOUR 18 LST                 | 55    | 55    | 56    | 56    | 48    | 43    | 33    | 40    | 60    | 62    | 61    | 66     | 53        |    |
| W/O                  | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | HEAVY FOG(VISBY <= 1/4 MI)  | 1     | 1     | 0     | 1     | 0     | 0     | 0     | 2     | 0     | 0     | 2     | 3      | 10        |    |
|                      | THUNDERSTORMS               | 0     | 1     | 2     | 8     | 5     | 2     | 5     | 5     | 4     | 5     | 1     | 2      | 40        |    |
| PR                   | MEAN STATION PRESS. (IN.)   | 28.69 | 28.72 | 28.63 | 28.61 | 28.61 | 28.61 | 28.64 | 28.63 | 28.68 | 28.65 | 28.80 | 28.63  | 28.66     |    |
|                      | MEAN SEA-LEVEL PRESS. (IN.) | 30.07 | 30.11 | 29.97 | 29.95 | 29.93 | 29.92 | 29.95 | 29.94 | 30.01 | 30.00 | 30.17 | 30.00  | 30.00     |    |
| WINDS                | RESULTANT SPEED (MPH)       | 3.4   | 2.1   | 6.7   | 3.5   | 4.5   | 4.7   | 2.6   | 3.0   | 1.3   | 2.4   | 4.3   | 2.9    | 3.2       |    |
|                      | RES. DIR. (TENS OF DEGS.)   | 23    | 20    | 18    | 17    | 16    | 16    | 19    | 14    | 14    | 19    | 17    | 18     | 18        |    |
|                      | MEAN SPEED (MPH)            | 11.0  | 10.1  | 11.2  | 9.5   | 9.2   | 8.9   | 7.7   | 8.2   | 8.0   | 9.4   | 8.8   | 10.6   | 9.4       |    |
|                      | PREVAIL.DIR.(TENS OF DEGS.) | 16    | 16    | 16    | 17    | 16    | 16    | 15    | 15    | 16    | 17    | 16    | 16     | 16        |    |
|                      | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | SPEED (MPH)                 | 35    | 39    | 40    | 36    | 37    | 48    | 32    | 43    | 39    | 33    | 29    | 36     | 48        |    |
|                      | DIR. (TENS OF DEGS.)        | 24    | 28    | 19    | 13    | 22    | 36    | 36    | 33    | 31    | 22    | 18    | 28     | 36        |    |
|                      | DATE OF OCCURRENCE          | 22    | 29    | 06    | 27    | 01    | 11    | 08    | 04    | 07    | 13    | 10    | 20     | JUN 11    |    |
|                      | MAXIMUM 3-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | SPEED (MPH)                 | 46    | 52    | 49    | 47    | 51    | 61    | 43    | 53    | 58    | 43    | 38    | 51     | 61        |    |
| DIR. (TENS OF DEGS.) | 24                          | 29    | 12    | 13    | 21    | 36    | 11    | 30    | 31    | 22    | 15    | 29    | 36     |           |    |
| DATE OF OCCURRENCE   | 22                          | 29    | 21    | 27    | 01    | 11    | 07    | 04    | 07    | 13    | 10    | 20    | JUN 11 |           |    |
| PRECIPITATION        | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | TOTAL (IN.)                 | 0.95  | 2.37  | 2.73  | 4.42  | 3.44  | 1.17  | 0.32  | 4.01  | 5.11  | 4.29  | 1.03  | 1.10   | 30.94     |    |
|                      | GREATEST 24-HOUR (IN.)      | 0.91  | 0.95  | 1.47  | 1.61  | 1.63  | 0.89  | 0.18  | 1.55  | 1.99  | 2.32  | 0.67  | 0.76   | 2.32      |    |
|                      | DATE OF OCCURRENCE          | 25    | 03    | 19-20 | 13-14 | 31    | 11    | 09    | 31    | 14-15 | 13-14 | 11    | 03-04  | OCT 13-14 |    |
|                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | PRECIPITATION 0.01          | 4     | 10    | 7     | 8     | 6     | 5     | 3     | 12    | 8     | 10    | 5     | 8      | 86        |    |
| PRECIPITATION 0.10   | 1                           | 5     | 5     | 7     | 5     | 2     | 2     | 7     | 5     | 6     | 2     | 3     | 50     |           |    |
| PRECIPITATION 1.00   | 0                           | 0     | 1     | 2     | 1     | 0     | 0     | 2     | 1     | 1     | 0     | 0     | 8      |           |    |
| SNOWFALL             | SNOW,ICE PELLETS,HAIL       |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                      | TOTAL (IN.)                 | 0.7   | 1.7   | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.3    | 3.7       |    |
|                      | GREATEST 24-HOUR (IN.)      | 0.6   | 1.7   | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.2    | 1.7       |    |
|                      | DATE OF OCCURRENCE          | 12    | 13    | 08    |       |       |       |       |       |       |       |       | 31     | FEB 13    |    |
|                      | MAXIMUM SNOW DEPTH (IN.)    | T     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 1         |    |
|                      | DATE OF OCCURRENCE          | 12+   | 13    |       |       |       |       |       |       |       |       |       |        | FEB 13    |    |
|                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
| SNOWFALL >= 1.0      | 0                           | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 2      |           |    |

# NORMALS, MEANS, AND EXTREMES SPRINGFIELD (KSGF)

**LATITUDE:** 37° 14'N      **LONGITUDE:** 93° 23'W      **ELEVATION (FT):** GRND: 1259 BARO: 1280      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 13995**

| ELEMENT                                  | POR  | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | YEAR     |          |
|--|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| <b>TEMPERATURE °F</b>                    | NORMAL DAILY MAXIMUM                               | 30   | 42.9  | 48.2  | 57.5  | 67.2  | 75.3  | 83.8  | 88.8  | 89.0  | 80.3  | 69.0  | 56.7  | 44.9     | 67.0     |
|  | MEAN DAILY MAXIMUM                                 | 116  | 42.4  | 44.7  | 56.2  | 65.7  | 74.7  | 82.1  | 88.1  | 87.6  | 79.0  | 69.3  | 55.1  | 44.8     | 65.8     |
|  | HIGHEST DAILY MAXIMUM                              | 67   | 76    | 81    | 87    | 93    | 93    | 101   | 113   | 108   | 104   | 93    | 83    | 77       | 113      |
|  | YEAR OF OCCURRENCE                                 |      | 1950  | 1972  | 1974  | 1963  | 2012  | 2012  | 1954  | 2011  | 1947  | 1981  | 2006  | 1991     | JUL 1954 |
|  | MEAN OF EXTREME MAXS.                              | 116  | 65.6  | 69.8  | 78.2  | 84.1  | 87.3  | 93.0  | 97.4  | 98.0  | 92.6  | 85.3  | 74.8  | 67.3     | 82.8     |
|  | NORMAL DAILY MINIMUM                               | 30   | 22.4  | 26.1  | 35.2  | 44.3  | 54.4  | 63.1  | 67.6  | 66.6  | 57.7  | 46.5  | 35.4  | 25.0     | 45.4     |
|  | MEAN DAILY MINIMUM                                 | 116  | 23.4  | 25.6  | 35.2  | 44.7  | 54.5  | 62.5  | 67.6  | 66.5  | 58.1  | 47.7  | 35.6  | 26.8     | 45.7     |
|  | LOWEST DAILY MINIMUM                               | 67   | -13   | -17   | -3    | 18    | 30    | 42    | 44    | 44    | 31    | 18    | 4     | -16      | -17      |
|  | YEAR OF OCCURRENCE                                 |      | 1985  | 1979  | 1948  | 1957  | 1970  | 1966  | 1972  | 1967  | 1984  | 1993  | 1959  | 1989     | FEB 1979 |
|  | MEAN OF EXTREME MINS.                              | 116  | 1.2   | 6.6   | 14.9  | 28.0  | 38.2  | 49.3  | 56.1  | 53.6  | 40.5  | 29.5  | 17.3  | 6.1      | 28.4     |
|  | NORMAL DRY BULB                                    | 30   | 32.6  | 37.2  | 46.3  | 55.8  | 64.8  | 73.4  | 78.2  | 77.8  | 69.0  | 57.8  | 46.1  | 35.0     | 56.2     |
|  | MEAN DRY BULB                                      | 116  | 32.9  | 35.2  | 45.7  | 55.2  | 64.7  | 72.4  | 77.9  | 77.1  | 68.6  | 58.5  | 45.4  | 35.8     | 55.8     |
|  | MEAN WET BULB                                      | 29   | 28.3  | 31.8  | 39.7  | 48.4  | 58.3  | 66.1  | 69.4  | 68.0  | 60.6  | 50.2  | 40.2  | 31.2     | 49.4     |
|  | MEAN DEW POINT                                     | 29   | 25.7  | 28.6  | 36.1  | 45.4  | 56.3  | 64.5  | 67.9  | 66.3  | 58.4  | 47.7  | 37.6  | 28.5     | 46.9     |
|  | NORMAL NO. DAYS WITH:<br>MAXIMUM >= 90             | 30   | 0.0   | 0.0   | 0.0   | 0.1   | 0.2   | 3.9   | 13.1  | 14.3  | 3.0   | 0.0   | 0.0   | 0.0      | 34.6     |
|  | MAXIMUM <= 32                                      | 30   | 6.2   | 2.9   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.5   | 4.4      | 14.5     |
| MINIMUM <= 32                            | 30   | 25.0 | 20.2  | 12.2  | 2.9   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 2.0   | 11.8  | 23.2  | 97.4     |          |
| MINIMUM <= 0                             | 30   | 1.3  | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 2.5      |          |
| <b>H/C</b>                               | NORMAL HEATING DEG. DAYS                           | 30   | 1003  | 780   | 581   | 300   | 95    | 9     | 0     | 2     | 53    | 253   | 571   | 931      | 4578     |
|  | NORMAL COOLING DEG. DAYS                           | 30   | 0     | 0     | 3     | 22    | 90    | 263   | 410   | 398   | 173   | 28    | 2     | 0        | 1389     |
| <b>RH</b>                                | NORMAL (PERCENT)                                   | 30   | 71    | 69    | 66    | 66    | 73    | 74    | 72    | 70    | 72    | 69    | 71    | 72       | 70       |
|  | HOURLY 00 LST                                      | 30   | 75    | 74    | 72    | 73    | 82    | 85    | 83    | 81    | 82    | 78    | 76    | 77       | 78       |
|  | HOURLY 06 LST                                      | 30   | 79    | 79    | 78    | 80    | 86    | 88    | 88    | 88    | 88    | 83    | 81    | 80       | 83       |
|  | HOURLY 12 LST                                      | 30   | 64    | 61    | 57    | 56    | 60    | 60    | 57    | 55    | 58    | 56    | 61    | 65       | 59       |
|  | HOURLY 18 LST                                      | 30   | 67    | 62    | 56    | 54    | 61    | 61    | 58    | 56    | 62    | 63    | 67    | 69       | 61       |
| <b>S</b>                                 | PERCENT POSSIBLE SUNSHINE                          | 57   | 50    | 52    | 56    | 59    | 60    | 65    | 71    | 71    | 67    | 64    | 52    | 48       | 60       |
| <b>W/O</b>                               | MEAN NO. DAYS WITH:<br>HEAVY FOG (VISIB <= 1/4 MI) | 49   | 3.0   | 2.2   | 1.6   | 1.0   | 1.5   | 1.3   | 1.0   | 1.0   | 1.5   | 1.7   | 2.0   | 2.9      | 20.7     |
|  | THUNDERSTORMS                                      | 65   | 0.8   | 1.3   | 3.6   | 6.2   | 7.9   | 8.6   | 7.3   | 7.0   | 4.8   | 3.2   | 2.2   | 1.1      | 54.0     |
| <b>CLOUDINESS</b>                        | MEAN:<br>SUNRISE-SUNSET (OKTAS)                    |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|  | MIDNIGHT-MIDNIGHT (OKTAS)                          |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|  | MEAN NO. DAYS WITH:<br>CLEAR                       | 1    | 3.0   |       | 10.0  |       | 7.0   | 11.0  |       |       |       |       |       |          |          |
|  | PARTLY CLOUDY                                      | 1    | 2.0   |       | 4.0   |       | 3.0   | 4.0   |       |       |       |       |       |          |          |
|  | CLOUDY   | 1    | 7.0   | 1.0   | 5.0   |       | 8.0   | 8.0   |       |       |       |       |       |          |          |
| <b>PR</b>                                | MEAN STATION PRESSURE (IN)                         | 29   | 28.74 | 28.72 | 28.66 | 28.60 | 28.62 | 28.64 | 28.67 | 28.68 | 28.70 | 28.71 | 28.72 | 28.74    | 28.68    |
|  | MEAN SEA-LEVEL PRES. (IN)                          | 29   | 30.13 | 30.11 | 30.02 | 29.94 | 29.95 | 29.95 | 29.98 | 30.00 | 30.03 | 30.06 | 30.08 | 30.12    | 30.03    |
| <b>WINDS</b>                             | MEAN SPEED (MPH)                                   | 29   | 10.0  | 10.2  | 11.0  | 10.6  | 9.0   | 8.2   | 7.4   | 7.3   | 7.9   | 8.9   | 9.9   | 10.0     | 9.2      |
|  | PREVAIL. DIR. (TENS OF DEGS)                       | 41   | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 16       | 17       |
|  | MAXIMUM 2-MINUTE:<br>SPEED (MPH)                   | 17   | 48    | 39    | 40    | 44    | 49    | 48    | 44    | 46    | 40    | 38    | 44    | 37       | 49       |
|  | DIR. (TENS OF DEGS)                                |      | 28    | 28    | 19    | 23    | 20    | 36    | 05    | 01    | 01    | 27    | 20    | 13       | 20       |
|  | YEAR OF OCCURRENCE                                 |      | 2008  | 2012  | 2012  | 2009  | 2003  | 2012  | 2011  | 2008  | 1998  | 2007  | 2008  | 2001     | MAY 2003 |
|  | MAXIMUM 3-SECOND<br>SPEED (MPH)                    | 17   | 66    | 53    | 55    | 55    | 66    | 61    | 70    | 55    | 58    | 52    | 58    | 51       | 70       |
|  | DIR. (TENS OF DEGS)                                |      | 28    | 28    | 23    | 23    | 26    | 36    | 05    | 01    | 31    | 27    | 20    | 29       | 05       |
| YEAR OF OCCURRENCE                       |  | 2008 | 2001  | 2009  | 2009  | 2009  | 2012  | 2011  | 2008  | 2012  | 2007  | 2008  | 2012  | JUL 2011 |          |
| <b>PRECIPITATION</b>                     | NORMAL (IN)  | 30   | 2.47  | 2.52  | 3.62  | 4.32  | 5.10  | 4.85  | 3.68  | 3.55  | 4.61  | 3.59  | 4.22  | 3.04     | 45.57    |
|  | MAXIMUM MONTHLY (IN)                               | 67   | 6.77  | 6.41  | 9.40  | 10.58 | 13.41 | 13.41 | 18.75 | 8.60  | 17.46 | 9.97  | 12.24 | 8.84     | 18.75    |
|  | YEAR OF OCCURRENCE                                 |      | 1950  | 2008  | 2008  | 1994  | 1990  | 2008  | 1958  | 1982  | 1993  | 2009  | 1985  | 1982     | JUL 1958 |
|  | MINIMUM MONTHLY (IN)                               | 67   | 0.08  | 0.09  | 0.50  | 0.15  | 1.52  | 0.23  | 0.32  | 0.34  | 0.10  | 0.43  | 0.19  | 0.13     | 0.08     |
|  | YEAR OF OCCURRENCE                                 |      | 1961  | 2006  | 1956  | 1989  | 2005  | 1991  | 2012  | 2000  | 2004  | 1963  | 1989  | 1950     | JAN 1961 |
|  | MAXIMUM IN 24 HOURS (IN)                           | 67   | 3.91  | 3.73  | 4.59  | 3.85  | 5.81  | 4.83  | 6.85  | 3.70  | 6.27  | 5.67  | 6.29  | 4.50     | 6.85     |
|  | YEAR OF OCCURRENCE                                 |      | 1950  | 1966  | 2008  | 1970  | 1989  | 1975  | 1958  | 2007  | 1993  | 2009  | 1987  | 1982     | JUL 1958 |
|  | NORMAL NO. DAYS WITH:<br>PRECIPITATION >= 0.01     | 30   | 8.2   | 7.8   | 10.5  | 10.5  | 12.0  | 10.6  | 8.4   | 7.9   | 7.6   | 9.5   | 9.4   | 8.9      | 111.3    |
| PRECIPITATION >= 1.00                    | 30   | 0.6  | 0.5   | 1.0   | 1.2   | 1.1   | 1.2   | 1.1   | 1.0   | 1.6   | 1.1   | 1.3   | 1.0   | 12.7     |          |
| <b>SNOWFALL</b>                          | NORMAL (IN)  | 30   | 5.4   | 3.6   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 4.9      | 17.0     |
|  | MAXIMUM MONTHLY (IN)                               | 67   | 23.1  | 19.2  | 23.9  | 7.1   | T     | T     | T     | T     | 0.0   | 1.2   | 19.5  | 20.5     | 23.9     |
|  | YEAR OF OCCURRENCE                                 |      | 1979  | 1980  | 1970  | 1971  | 1996  | 2008  | 1995  | 2001  |       | 1993  | 1951  | 2002     | MAR 1970 |
|  | MAXIMUM IN 24 HOURS (IN)                           | 67   | 13.5  | 16.1  | 15.7  | 6.9   | T     | T     | T     | T     | 0.0   | 1.1   | 12.5  | 14.3     | 16.1     |
|  | YEAR OF OCCURRENCE                                 |      | 1995  | 1980  | 1970  | 1971  | 1996  | 1993  | 1995  | 2001  |       | 1993  | 1951  | 2000     | FEB 1980 |
|  | MAXIMUM SNOW DEPTH (IN)                            | 69   | 14    | 16    | 17    | 3     | 0     | 0     | 0     | 0     | 0     | 1     | 14    | 13       | 17       |
|  | YEAR OF OCCURRENCE                                 |      | 1995  | 1980  | 1970  | 1971  |       |       |       |       |       | 1993  | 1951  | 2000     | MAR 1970 |
| NORMAL NO. DAYS WITH:<br>SNOWFALL >= 1.0 | 30   | 1.6  | 0.9   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 1.2   | 4.4      |          |

**PRECIPITATION (inches) 2012 SPRINGFIELD (KSGF)**

| YEAR            | JAN  | FEB  | MAR  | APR   | MAY   | JUN   | JUL  | AUG  | SEP   | OCT  | NOV   | DEC  | ANNUAL |
|-----------------|------|------|------|-------|-------|-------|------|------|-------|------|-------|------|--------|
| 1983            | 0.77 | 0.43 | 2.58 | 10.19 | 3.78  | 2.31  | 5.95 | 1.28 | 3.46  | 6.67 | 5.08  | 2.55 | 45.05  |
| 1984            | 1.08 | 3.46 | 5.01 | 5.05  | 2.11  | 3.19  | 2.46 | 1.34 | 4.84  | 5.70 | 4.67  | 6.87 | 45.78  |
| 1985            | 1.55 | 4.25 | 6.28 | 3.92  | 3.75  | 7.20  | 1.61 | 5.97 | 1.66  | 5.05 | 12.24 | 3.02 | 56.50  |
| 1986            | 0.09 | 1.95 | 2.07 | 3.83  | 3.05  | 3.23  | 1.29 | 4.82 | 11.65 | 4.11 | 2.85  | 1.25 | 40.19  |
| 1987            | 2.07 | 5.25 | 3.95 | 2.15  | 5.39  | 5.80  | 2.57 | 4.35 | 4.08  | 3.24 | 9.16  | 7.48 | 55.49  |
| 1988            | 1.34 | 2.18 | 5.87 | 3.75  | 4.40  | 5.35  | 4.80 | 5.14 | 5.14  | 1.91 | 5.48  | 3.10 | 48.46  |
| 1989            | 1.60 | 1.98 | 4.95 | 0.15  | 6.93  | 2.67  | 4.79 | 3.91 | 2.40  | 1.12 | 0.19  | 0.81 | 31.50  |
| 1990            | 5.26 | 5.68 | 7.87 | 2.51  | 13.41 | 4.66  | 3.01 | 1.46 | 5.84  | 5.02 | 2.41  | 6.06 | 63.19  |
| 1991            | 3.00 | 0.93 | 1.12 | 5.16  | 5.58  | 0.23  | 4.20 | 2.72 | 3.55  | 3.78 | 3.92  | 3.40 | 37.59  |
| 1992            | 0.87 | 2.20 | 2.24 | 2.45  | 2.03  | 6.03  | 6.84 | 3.86 | 7.36  | 0.80 | 9.11  | 4.25 | 48.04  |
| 1993            | 2.82 | 2.67 | 2.62 | 3.09  | 4.42  | 8.75  | 4.19 | 2.71 | 17.46 | 1.37 | 4.05  | 1.63 | 55.78  |
| 1994            | 1.40 | 2.75 | 3.00 | 10.58 | 3.54  | 3.25  | 4.48 | 4.81 | 1.86  | 4.68 | 7.57  | 1.10 | 49.02  |
| 1995            | 3.99 | 1.45 | 1.17 | 8.67  | 7.26  | 7.79  | 2.96 | 2.25 | 2.43  | 0.60 | 0.81  | 2.48 | 41.86  |
| 1996            | 3.70 | 0.61 | 1.68 | 5.18  | 5.10  | 2.44  | 2.90 | 1.92 | 7.48  | 5.08 | 8.06  | .71  | 44.86  |
| 1997            | 1.39 | 4.02 | 4.09 | 2.76  | 4.66  | 3.58  | 1.72 | 4.21 | 3.69  | 3.43 | 1.78  | 3.15 | 38.48  |
| 1998            | 2.67 | 4.28 | 6.54 | 2.58  | 3.85  | 3.16  | 7.39 | 3.26 | 5.81  | 3.97 | 3.60  | 1.36 | 48.47  |
| 1999            | 3.95 | 1.90 | 3.04 | 7.07  | 6.54  | 3.80  | 1.28 | 2.00 | 1.79  | 1.20 | 1.97  | 6.99 | 41.53  |
| 2000            | 1.16 | 1.69 | 2.92 | 1.06  | 3.46  | 8.40  | 6.77 | 0.34 | 2.26  | 2.46 | 3.24  | 1.60 | 35.36  |
| 2001            | 1.45 | 5.77 | 0.85 | 1.88  | 5.19  | 6.60  | 4.87 | 5.29 | 3.20  | 4.24 | 2.43  | 3.52 | 45.29  |
| 2002            | 3.47 | 0.79 | 3.38 | 4.21  | 9.46  | 0.99  | 3.58 | 4.27 | 0.56  | 3.26 | 0.96  | 2.89 | 37.82  |
| 2003            | 0.43 | 3.73 | 2.85 | 2.63  | 4.90  | 4.80  | 2.00 | 6.37 | 3.21  | 1.53 | 5.98  | 4.18 | 42.61  |
| 2004            | 3.88 | 0.55 | 6.43 | 4.41  | 2.52  | 3.37  | 5.98 | 1.21 | 0.10  | 6.31 | 7.28  | 1.19 | 43.23  |
| 2005            | 6.70 | 2.42 | 1.65 | 3.19  | 1.52  | 3.28  | 1.58 | 4.10 | 3.73  | 4.04 | 2.50  | 0.61 | 35.32  |
| 2006            | 1.75 | 0.09 | 2.45 | 5.48  | 7.00  | 1.79  | 3.56 | 4.19 | 2.26  | 2.19 | 6.38  | 1.73 | 38.87  |
| 2007            | 4.25 | 2.25 | 2.66 | 4.04  | 4.07  | 8.11  | 2.80 | 4.34 | 4.93  | 1.88 | 1.22  | 3.72 | 44.27  |
| 2008            | 3.52 | 6.41 | 9.40 | 4.74  | 5.20  | 13.41 | 2.66 | 0.60 | 8.15  | 2.38 | 1.13  | 2.52 | 60.12  |
| 2009            | 1.31 | 1.64 | 3.85 | 8.26  | 5.52  | 4.61  | 3.70 | 4.51 | 5.63  | 9.97 | 1.13  | 1.73 | 51.86  |
| 2010            | 2.52 | 1.28 | 3.36 | 3.99  | 7.14  | 2.33  | 6.37 | 1.53 | 11.65 | 1.01 | 4.24  | 0.74 | 46.16  |
| 2011            | 0.26 | 3.43 | 4.25 | 7.89  | 5.92  | 0.82  | 1.71 | 2.88 | 4.05  | 1.28 | 5.29  | 2.83 | 40.61  |
| 2012            | 0.95 | 2.37 | 2.73 | 4.42  | 3.44  | 1.17  | 0.32 | 4.01 | 5.11  | 4.29 | 1.03  | 1.10 | 30.94  |
| POR=<br>116 YRS | 2.20 | 2.12 | 3.43 | 4.14  | 4.80  | 4.92  | 3.54 | 3.61 | 4.05  | 3.34 | 3.08  | 2.46 | 41.69  |

WBAN : 13995

**AVERAGE TEMPERATURE (°F) 2012 SPRINGFIELD (KSGF)**

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1983            | 34.9 | 40.4 | 46.7 | 50.6 | 61.9 | 72.2 | 79.6 | 83.4 | 71.0 | 60.5 | 48.7 | 21.5 | 56.0   |
| 1984            | 29.4 | 42.8 | 42.9 | 54.0 | 62.6 | 75.5 | 77.4 | 79.5 | 68.1 | 60.3 | 45.3 | 43.0 | 56.7   |
| 1985            | 24.4 | 30.8 | 50.1 | 59.0 | 67.1 | 72.6 | 79.5 | 75.6 | 69.0 | 59.4 | 46.1 | 28.0 | 55.1   |
| 1986            | 36.6 | 37.6 | 49.6 | 58.0 | 65.4 | 75.8 | 82.0 | 73.8 | 71.9 | 57.4 | 41.6 | 36.3 | 57.2   |
| 1987            | 32.7 | 41.5 | 48.5 | 56.7 | 70.8 | 74.7 | 78.5 | 79.1 | 67.6 | 52.9 | 46.9 | 37.2 | 57.3   |
| 1988            | 29.6 | 32.2 | 45.4 | 54.8 | 65.6 | 74.5 | 76.7 | 78.6 | 68.9 | 52.9 | 47.1 | 37.3 | 55.3   |
| 1989            | 39.6 | 27.4 | 45.5 | 57.0 | 62.5 | 69.6 | 75.3 | 75.4 | 63.7 | 59.5 | 46.6 | 25.7 | 54.0   |
| 1990            | 41.3 | 42.0 | 48.2 | 54.8 | 61.9 | 75.1 | 77.2 | 77.1 | 72.5 | 55.9 | 52.2 | 34.9 | 57.8   |
| 1991            | 30.5 | 42.6 | 48.6 | 57.8 | 68.9 | 75.0 | 78.5 | 78.3 | 68.0 | 59.3 | 42.4 | 40.2 | 57.5   |
| 1992            | 37.7 | 43.8 | 48.6 | 57.5 | 63.4 | 70.5 | 76.5 | 71.1 | 67.6 | 58.7 | 44.0 | 36.4 | 56.3   |
| 1993            | 33.5 | 33.9 | 42.9 | 52.7 | 63.8 | 73.1 | 80.1 | 79.2 | 66.0 | 54.2 | 41.8 | 37.9 | 54.9   |
| 1994            | 30.1 | 36.5 | 48.8 | 57.7 | 64.3 | 77.2 | 77.1 | 75.4 | 67.6 | 59.7 | 50.6 | 40.4 | 57.1   |
| 1995            | 33.7 | 39.1 | 48.5 | 56.0 | 62.3 | 72.1 | 78.2 | 82.2 | 66.6 | 59.0 | 43.0 | 34.2 | 56.2   |
| 1996            | 30.4 | 38.3 | 39.6 | 53.0 | 67.0 | 72.8 | 75.0 | 75.8 | 65.8 | 57.0 | 39.5 | 38.0 | 54.4   |
| 1997            | 29.1 | 40.0 | 47.3 | 50.6 | 59.8 | 70.8 | 77.8 | 73.9 | 69.0 | 57.7 | 42.6 | 35.1 | 54.5   |
| 1998            | 38.1 | 39.9 | 42.5 | 53.6 | 69.7 | 74.6 | 79.4 | 77.5 | 74.9 | 58.6 | 49.1 | 37.0 | 57.9   |
| 1999            | 35.1 | 44.1 | 43.1 | 57.0 | 63.1 | 72.5 | 79.8 | 78.1 | 66.8 | 58.8 | 53.4 | 39.3 | 57.6   |
| 2000            | 34.8 | 44.2 | 49.6 | 54.2 | 66.7 | 70.0 | 76.1 | 80.9 | 70.1 | 61.3 | 39.5 | 23.3 | 55.9   |
| 2001            | 30.8 | 37.5 | 41.4 | 61.6 | 65.6 | 72.9 | 79.3 | 77.7 | 67.0 | 56.6 | 50.5 | 38.8 | 56.6   |
| 2002            | 35.3 | 37.9 | 42.8 | 58.4 | 61.9 | 74.4 | 78.6 | 78.1 | 72.7 | 55.3 | 43.6 | 35.8 | 56.2   |
| 2003            | 28.8 | 33.7 | 45.9 | 57.6 | 64.2 | 69.8 | 79.2 | 80.0 | 66.1 | 58.5 | 48.3 | 37.4 | 55.8   |
| 2004            | 32.8 | 36.5 | 49.1 | 56.7 | 67.5 | 71.9 | 74.6 | 72.6 | 71.0 | 61.2 | 49.2 | 37.8 | 56.7   |
| 2005            | 36.7 | 41.8 | 44.5 | 56.3 | 64.2 | 76.4 | 79.4 | 80.2 | 73.8 | 58.4 | 48.3 | 34.2 | 57.9   |
| 2006            | 43.9 | 36.8 | 48.8 | 61.9 | 66.6 | 74.6 | 80.9 | 81.5 | 66.9 | 56.2 | 47.9 | 40.2 | 58.9   |
| 2007            | 32.5 | 34.7 | 56.3 | 53.6 | 69.8 | 75.4 | 77.9 | 81.7 | 71.2 | 60.8 | 47.0 | 36.1 | 58.1   |
| 2008            | 33.5 | 34.9 | 46.0 | 53.0 | 63.8 | 73.2 | 77.8 | 76.3 | 68.1 | 57.2 | 44.5 | 33.2 | 55.1   |
| 2009            | 30.5 | 40.8 | 48.4 | 54.5 | 63.4 | 75.5 | 74.2 | 73.8 | 67.1 | 52.0 | 50.7 | 31.7 | 55.2   |
| 2010            | 28.0 | 30.7 | 45.7 | 60.2 | 65.6 | 78.3 | 80.1 | 81.3 | 70.1 | 58.3 | 47.0 | 32.4 | 56.5   |
| 2011            | 29.8 | 34.3 | 46.6 | 58.2 | 62.8 | 78.4 | 84.6 | 80.9 | 65.5 | 57.5 | 47.8 | 38.3 | 57.1   |
| 2012            | 38.1 | 40.6 | 58.1 | 59.7 | 69.6 | 76.0 | 84.3 | 77.0 | 68.5 | 54.0 | 47.4 | 41.2 | 59.5   |
| POR=<br>116 YRS | 32.9 | 35.2 | 45.7 | 55.2 | 64.7 | 72.4 | 77.9 | 77.1 | 68.6 | 58.5 | 45.4 | 35.8 | 55.8   |

**HEATING DEGREE DAYS (base 65°F) 2012 SPRINGFIELD (KSGF)**

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB  | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1983-84 | 0   | 0   | 59  | 162 | 489 | 1343 | 1097 | 641  | 680 | 338 | 133 | 0   | 4942  |
| 1984-85 | 0   | 0   | 106 | 168 | 584 | 678  | 1251 | 949  | 459 | 204 | 33  | 4   | 4436  |
| 1985-86 | 0   | 1   | 88  | 187 | 558 | 1139 | 874  | 760  | 474 | 226 | 64  | 0   | 4371  |
| 1986-87 | 0   | 12  | 16  | 249 | 692 | 882  | 998  | 651  | 505 | 291 | 1   | 1   | 4298  |
| 1987-88 | 0   | 1   | 38  | 370 | 540 | 857  | 1090 | 944  | 601 | 304 | 54  | 2   | 4801  |
| 1988-89 | 0   | 8   | 26  | 385 | 531 | 852  | 780  | 1049 | 601 | 303 | 156 | 22  | 4713  |
| 1989-90 | 2   | 1   | 130 | 204 | 546 | 1214 | 724  | 639  | 521 | 336 | 126 | 4   | 4447  |
| 1990-91 | 6   | 0   | 24  | 291 | 381 | 929  | 1059 | 620  | 508 | 226 | 48  | 0   | 4092  |
| 1991-92 | 0   | 0   | 102 | 202 | 670 | 762  | 842  | 607  | 503 | 261 | 112 | 8   | 4069  |
| 1992-93 | 0   | 6   | 66  | 203 | 622 | 878  | 970  | 867  | 681 | 361 | 94  | 12  | 4760  |
| 1993-94 | 0   | 2   | 70  | 340 | 692 | 836  | 1074 | 791  | 500 | 251 | 89  | 0   | 4645  |
| 1994-95 | 0   | 0   | 60  | 199 | 432 | 755  | 964  | 721  | 510 | 288 | 132 | 3   | 4064  |
| 1995-96 | 0   | 0   | 102 | 198 | 656 | 947  | 1064 | 768  | 779 | 355 | 78  | 17  | 4964  |
| 1996-97 | 0   | 0   | 71  | 252 | 756 | 827  | 1106 | 693  | 542 | 429 | 190 | 19  | 4885  |
| 1997-98 | 4   | 1   | 21  | 278 | 663 | 918  | 827  | 698  | 702 | 340 | 29  | 25  | 4506  |
| 1998-99 | 0   | 0   | 0   | 210 | 471 | 862  | 920  | 580  | 672 | 248 | 88  | 13  | 4064  |
| 1999-00 | 0   | 0   | 77  | 213 | 342 | 792  | 932  | 594  | 471 | 319 | 69  | 16  | 3825  |
| 2000-01 | 0   | 0   | 67  | 167 | 762 | 1287 | 1053 | 760  | 726 | 171 | 67  | 5   | 5065  |
| 2001-02 | 0   | 0   | 61  | 265 | 426 | 803  | 914  | 754  | 682 | 232 | 132 | 1   | 4270  |
| 2002-03 | 0   | 0   | 10  | 330 | 636 | 897  | 1117 | 872  | 584 | 247 | 76  | 24  | 4793  |
| 2003-04 | 0   | 0   | 65  | 209 | 501 | 846  | 989  | 821  | 491 | 265 | 77  | 1   | 4265  |
| 2004-05 | 4   | 13  | 8   | 160 | 467 | 839  | 871  | 647  | 630 | 273 | 117 | 0   | 4029  |
| 2005-06 | 0   | 0   | 21  | 261 | 500 | 950  | 647  | 785  | 505 | 150 | 96  | 0   | 3915  |
| 2006-07 | 0   | 0   | 52  | 307 | 506 | 765  | 962  | 842  | 291 | 356 | 19  | 0   | 4100  |
| 2007-08 | 0   | 0   | 18  | 192 | 535 | 888  | 969  | 866  | 583 | 365 | 108 | 0   | 4524  |
| 2008-09 | 0   | 0   | 30  | 264 | 608 | 977  | 1063 | 670  | 517 | 337 | 109 | 6   | 4581  |
| 2009-10 | 0   | 7   | 33  | 399 | 420 | 1027 | 1139 | 953  | 593 | 164 | 85  | 0   | 4820  |
| 2010-11 | 0   | 0   | 28  | 210 | 533 | 1005 | 1081 | 853  | 568 | 231 | 177 | 0   | 4686  |
| 2011-12 | 0   | 0   | 93  | 251 | 513 | 820  | 828  | 702  | 239 | 195 | 31  | 8   | 3680  |
| 2012-   | 0   | 0   | 41  | 355 | 521 | 730  |      |      |     |     |     |     |       |

WBAN : 13995

**COOLING DEGREE DAYS (base 65°F) 2012 SPRINGFIELD (KSGF)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1983 | 0   | 0   | 3   | 8   | 41  | 239 | 462 | 577 | 245 | 29  | 9   | 0   | 1613  |
| 1984 | 0   | 0   | 0   | 14  | 64  | 319 | 389 | 455 | 204 | 31  | 0   | 1   | 1477  |
| 1985 | 0   | 0   | 5   | 30  | 108 | 237 | 456 | 337 | 216 | 20  | 0   | 0   | 1409  |
| 1986 | 0   | 0   | 2   | 22  | 85  | 333 | 535 | 290 | 231 | 20  | 0   | 0   | 1518  |
| 1987 | 0   | 0   | 0   | 47  | 188 | 302 | 424 | 446 | 125 | 4   | 4   | 0   | 1540  |
| 1988 | 0   | 0   | 1   | 4   | 81  | 293 | 369 | 436 | 150 | 13  | 0   | 0   | 1347  |
| 1989 | 0   | 0   | 4   | 70  | 88  | 165 | 326 | 328 | 98  | 40  | 2   | 0   | 1121  |
| 1990 | 0   | 0   | 8   | 38  | 35  | 312 | 392 | 379 | 257 | 14  | 4   | 0   | 1439  |
| 1991 | 0   | 0   | 5   | 18  | 175 | 307 | 426 | 419 | 196 | 34  | 0   | 0   | 1580  |
| 1992 | 0   | 0   | 3   | 41  | 68  | 183 | 367 | 202 | 151 | 17  | 0   | 0   | 1032  |
| 1993 | 0   | 0   | 4   | 2   | 61  | 259 | 476 | 450 | 106 | 13  | 0   | 0   | 1371  |
| 1994 | 0   | 0   | 2   | 39  | 72  | 373 | 380 | 326 | 144 | 39  | 6   | 0   | 1381  |
| 1995 | 0   | 0   | 7   | 21  | 56  | 223 | 416 | 537 | 158 | 20  | 0   | 0   | 1438  |
| 1996 | 0   | 3   | 0   | 4   | 145 | 259 | 317 | 340 | 103 | 10  | 0   | 0   | 1181  |
| 1997 | 0   | 0   | 0   | 0   | 35  | 197 | 410 | 282 | 146 | 59  | 0   | 0   | 1129  |
| 1998 | 0   | 0   | 11  | 5   | 179 | 321 | 453 | 397 | 308 | 18  | 0   | 0   | 1692  |
| 1999 | 0   | 0   | 0   | 14  | 36  | 247 | 462 | 412 | 138 | 25  | 2   | 0   | 1336  |
| 2000 | 0   | 0   | 1   | 4   | 128 | 172 | 352 | 501 | 226 | 60  | 4   | 0   | 1448  |
| 2001 | 0   | 0   | 0   | 72  | 91  | 249 | 447 | 400 | 125 | 11  | 0   | 0   | 1395  |
| 2002 | 0   | 0   | 0   | 41  | 45  | 292 | 429 | 414 | 248 | 37  | 1   | 0   | 1507  |
| 2003 | 0   | 0   | 0   | 34  | 57  | 174 | 449 | 470 | 107 | 15  | 7   | 0   | 1313  |
| 2004 | 0   | 0   | 5   | 20  | 160 | 213 | 307 | 256 | 192 | 46  | 0   | 0   | 1199  |
| 2005 | 0   | 0   | 0   | 15  | 101 | 348 | 453 | 480 | 291 | 65  | 6   | 0   | 1759  |
| 2006 | 0   | 0   | 10  | 63  | 152 | 294 | 501 | 521 | 115 | 41  | 0   | 0   | 1697  |
| 2007 | 0   | 0   | 29  | 21  | 176 | 317 | 407 | 522 | 208 | 72  | 0   | 0   | 1752  |
| 2008 | 0   | 0   | 0   | 13  | 78  | 252 | 403 | 357 | 127 | 28  | 1   | 0   | 1259  |
| 2009 | 0   | 0   | 9   | 30  | 65  | 326 | 292 | 286 | 102 | 0   | 0   | 0   | 1110  |
| 2010 | 0   | 0   | 5   | 28  | 111 | 404 | 475 | 513 | 188 | 10  | 0   | 0   | 1734  |
| 2011 | 0   | 0   | 5   | 33  | 115 | 406 | 616 | 502 | 114 | 26  | 0   | 0   | 1817  |
| 2012 | 0   | 0   | 34  | 44  | 182 | 344 | 607 | 379 | 153 | 20  | 1   | 2   | 1766  |

## SNOWFALL (inches) 2012 SPRINGFIELD (KSGF)

| YEAR           | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB  | MAR  | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-------|
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 14.5 | 6.9  | 9.6  | 0.4  | 0.0 | 0.0 | 0.0 | 31.6  |
| 1984-85        | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 4.5  | 13.7 | 6.0  | T    | 0.0 | 0.0 | 0.0 | 25.6  |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 6.2  | T    | 7.3  | 0.0  | 0.0 | 0.0 | 0.0 | 13.5  |
| 1986-87        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.1  | 11.7 | 2.1  | T    | 0.0 | 0.0 | 0.0 | 13.9  |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 8.7  | 5.8  | 4.3  | 7.0  | T   | 0.0 | 0.0 | 26.1  |
| 1988-89        | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 6.8  | 0.8  | 2.7  | 15.0 | 0.0 | 0.0 | T   | 28.3  |
| 1989-90        | 0.0 | 0.0 | 0.0 | T   | T   | 6.4  | 0.9  | 8.5  | 0.7  | T   | T   | T   | 16.5  |
| 1990-91        | T   | 0.0 | 0.0 | 0.0 | T   | 8.2  | 2.1  | 4.6  | T    | T   | T   | 0.0 | 14.9  |
| 1991-92        | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | 4.6  | T    | 0.1  | 0.0 | 0.0 | 0.0 | 4.7   |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 3.5  | 3.2  | 14.1 | 1.5  | 1.0 | 0.0 | T   | 23.7  |
| 1993-94        | 0.0 | 0.0 | 0.0 | 1.2 | 0.4 | 0.4  | 3.4  | 0.9  | 6.9  | 0.1 | 0.0 | 0.0 | 13.3  |
| 1994-95        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T    | 15.0 | 0.2  | 1.0  | T   | T   | 0.0 | 16.2  |
| 1995-96        | T   | 0.0 | 0.0 | 0.0 | 1.4 | 7.2  | 13.0 | 1.8  | T    | T   | T   | 0.0 |       |
| 1996-97        | 0.0 | 0.0 | 0.0 | T   | 1.0 | .7   | 10.8 | 1.8  | 0.0  | T   | T   | 0.0 | 14.3  |
| 1997-98        | 0.0 | 0.0 | 0.0 | T   | 1.7 | 3.5  | 4.3  | 0.3  | 5.4  | 0.0 | 0.0 | T   | 15.2  |
| 1998-99        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1  | 7.0  | T    | 14.3 | T   | 0.0 | 0.0 | 21.4  |
| 1999-00        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T    | 3.7  | 0.3  | 4.6  | 0.0 | 0.0 | 0.0 | 8.6   |
| 2000-01        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 18.1 | 2.6  | 0.9  | T    | 0.0 | 0.0 | T   | 21.6  |
| 2001-02        | 0.0 | T   | 0.0 |     |     |      | 4.6  | 3.4  | 2.8  | 0.0 | T   | 0.0 |       |
| 2002-03        | T   | 0.0 | 0.0 | 0.0 | 0.0 | 20.5 | 3.9  | 13.6 | 0.6  | T   | 0.0 | T   | 38.6  |
| 2003-04        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 11.4 | 1.0  | 2.0  | 0.0  | 0.0 | 0.0 | 0.0 | 14.4  |
| 2004-05        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0  | 2.9  | 3.2  | 0.2  | T   | 0.0 | 0.0 | 6.3   |
| 2005-06        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.5  | T    | 1.2  | T    | T   | 0.0 | 0.0 | 1.7   |
| 2006-07        | 0.0 | 0.0 | 0.0 | T   | 7.0 | 5.3  | 3.8  | 1.1  | T    | T   | 0.0 | 0.0 | 17.2  |
| 2007-08        | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.7  | 2.6  | 2.0  | 6.7  | T   | 0.0 | T   | 12.3  |
| 2008-09        | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.3  | 5.1  | 1.4  | 0.2  | T   | 0.0 | 0.0 | 7.5   |
| 2009-10        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8  | 11.9 | 2.3  | 4.1  | 0.0 | 0.0 | 0.0 | 20.1  |
| 2010-11        | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.9  | 3.0  | 14.9 | 1.0  | 0.0 | 0.0 | 0.0 | 19.9  |
| 2011-12        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.4  | 0.7  | 1.7  | T    | 0.0 | 0.0 | 0.0 | 2.8   |
| 2012-          | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3  |      |      |      |     |     |     |       |
| POR=<br>72 YRS | T   | T   | 0.0 | T   | 1.3 | 3.2  | 4.6  | 4.1  | 3.2  | 0.3 | T   | T   | 16.7  |

WBAN : 13995

### 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/>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<br/>CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</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</p> | <p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.<br/>STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:<br/><a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</a><br/>SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b></p> <p>The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> <p>The 2012 Annual Publications were reproduced on 6/05/13 to correct two problems that occurred when the Publications were first produced on 02/28/13.</p> <ol style="list-style-type: none"> <li>1) A small number of stations did not correctly show number of days with thunderstorms and heavy fog.</li> <li>2) Climate Normals in the Annual Publications were based on a first edition of the 1981-2010 Normals release. With the release of Service Pack 1 (SP1) new normals for 83 stations are available and now included. Additional information on SP1 is available at:<br/><a href="http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt">http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt</a>.</li> </ol> |
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# 2012 SPRINGFIELD MISSOURI (KSGF)

The entire metropolitan area, airport, and surrounding territory consists of comparatively flat or very gently rolling tableland, practically atop the crest of the Missouri Ozark Mountain plateau. The average elevation of the city proper is slightly over 1,300 feet above sea level. There are no serious problems of instrumental exposure.

As a result of this advantageous location, the city and surrounding territory enjoy what is described as a plateau climate. The winter season in the Ozarks has temperatures considerably milder than in the upland, plain or prairie, and in the summer the Ozarks are appreciably cooler.

The city of Springfield also occupies a unique location with regard to natural water drainage. The line separating two major water sheds crosses the north-central part of the city. Drainage north of this line flows north into the Gasconade and Missouri Rivers. To the south of the line, drainage is to the south into the White and Mississippi Rivers.

The average annual temperature range is over 140 degrees with lowest temperatures below -25 and highest temperatures above 115 degrees.

The growing season extends over a period of 199 days. Agriculture is greatly diversified, practically every farm product of the temperate zone is grown in this area. It is a noted livestock and poultry production and distribution center. The climate permits green pasturage the year around in varying quantity, resulting in ever increasing cattle production for both meat and dairy products.

The air is remarkably free from palls of industrial smoke, and the altitude of the city also tends to prevent other than few amounts of either radiation or advection fogs.

# Station History

SPRINGFIELD, MO

| NAME                     | Begin Date | End Date   | Latitude | Longitude | Elevation Feet | Relocation | Platform          |
|--------------------------|------------|------------|----------|-----------|----------------|------------|-------------------|
| SPRINGFIELD REGIONAL AP  | 1994-11-01 | 1995-11-01 | 37° 13'  | -93° 22'  | 1278           |            | COOP, WXSVC       |
| SPRINGFIELD MUNICIPAL AP | 1973-01-01 | 1980-10-01 | 37° 13'  | -93° 22'  | 1268           |            | COOP, WXSVC       |
| SPRINGFIELD MUNICIPAL AP | 1933-01-07 | 1940-08-01 | 37° 13'  | -93° 15'  | 1365           |            | AIRWAYS           |
| SPRINGFIELD REGIONAL AP  | 1980-10-01 | 1986-05-16 | 37° 13'  | -93° 22'  | 1268           |            | COOP, WXSVC       |
| SPRINGFIELD REGIONAL AP  | 1988-07-12 | 1994-11-01 | 37° 13'  | -93° 22'  | 1268           |            | COOP, WXSVC       |
| SPRINGFIELD REGIONAL AP  | 1995-11-01 | 2009-07-23 | 37° 14'  | -93° 23'  | 1259           |            | ASOS, COOP, WXSVC |
| SPRINGFIELD REGIONAL AP  | 1986-05-16 | 1988-07-12 | 37° 13'  | -93° 22'  | 1268           |            | COOP, WXSVC       |
| SPRINGFIELD REGIONAL AP  | 2009-07-23 | Present    | 37° 14'  | -93° 23'  | 1259           |            | ASOS, COOP, WXSVC |
| SPRINGFIELD MUNICIPAL AP | 1960-07-01 | 1973-01-01 | 37° 13'  | -93° 22'  | 1268           |            | AIRWAYS, COOP     |
| SPRINGFIELD MUNICIPAL AP | 1940-08-01 | 1945-07-02 | 37° 13'  | -93° 15'  | 1355           |            | AIRWAYS           |
| SPRINGFIELD MUNICIPAL AP | 1945-07-02 | 1960-07-01 | 37° 13'  | -93° 22'  | 1265           |            | AIRWAYS, COOP     |

# Element History

| Element | Begin Date | End Date   | Frequency | Time Of Observation | Equipment * | Equipment * Modifications | Equipment Exposure |
|---------|------------|------------|-----------|---------------------|-------------|---------------------------|--------------------|
| TEMP    | 1995-11-01 | 2009-07-23 | DAILY     | 2400                | HYGR        |                           |                    |
| TEMP    | 2009-07-23 | Present    | DAILY     | 2400                | ATEMP       |                           |                    |
| TEMP    | 1960-07-01 | 1988-07-12 | DAILY     | 2400                |             |                           |                    |
| PRECIP  | 1988-07-12 | 1990-04-20 | HOURLY    | 2400                |             |                           |                    |
| PRECIP  | 1990-04-20 | 1995-07-01 | HOURLY    | 2400                |             |                           |                    |
| TEMP    | 1995-07-01 | 1995-11-01 | DAILY     | 2400                | MMTS        |                           |                    |
| PRECIP  | 1995-11-01 | 2009-07-23 | DAILY     | 2400                | TB          | RCRD                      |                    |
| PRECIP  | 1995-11-01 | 2009-07-23 | HOURLY    | 2400                | TB          | RCRD                      |                    |
| PRECIP  | 2009-07-23 | Present    | DAILY     | 2400                | AWPAG       | RCRD;HTD                  |                    |
| TEMP    | 1945-07-02 | 1960-07-01 | DAILY     | 2400                |             |                           |                    |
| PRECIP  | 1960-07-01 | 1988-07-12 | DAILY     | 2400                | UNIV        | RCRD                      |                    |
| TEMP    | 1988-07-12 | 1990-04-20 | DAILY     | 2400                | MXMN        |                           |                    |
| TEMP    | 1990-04-20 | 1995-07-01 | DAILY     | 2400                | MMTS        |                           |                    |
| PRECIP  | 1988-07-12 | 1990-04-20 | DAILY     | 2400                | UNIV        | RCRD                      |                    |
| PRECIP  | 1995-07-01 | 1995-11-01 | HOURLY    | 2400                | UNIV        | RCRD                      |                    |
| PRECIP  | 1995-07-01 | 1995-11-01 | DAILY     | 2400                | UNIV        | RCRD                      |                    |
| PRECIP  | 1990-04-20 | 1995-07-01 | DAILY     | 2400                | UNIV        | RCRD                      |                    |
| PRECIP  | 1945-07-02 | 1960-07-01 | DAILY     | 2400                | UNIV        | RCRD                      |                    |
| PRECIP  | 2009-07-23 | Present    | HOURLY    | 2400                | AWPAG       | RCRD;HTD                  |                    |
| PRECIP  | 1960-07-01 | 1988-07-12 | HOURLY    | 2400                |             |                           |                    |

\* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)