

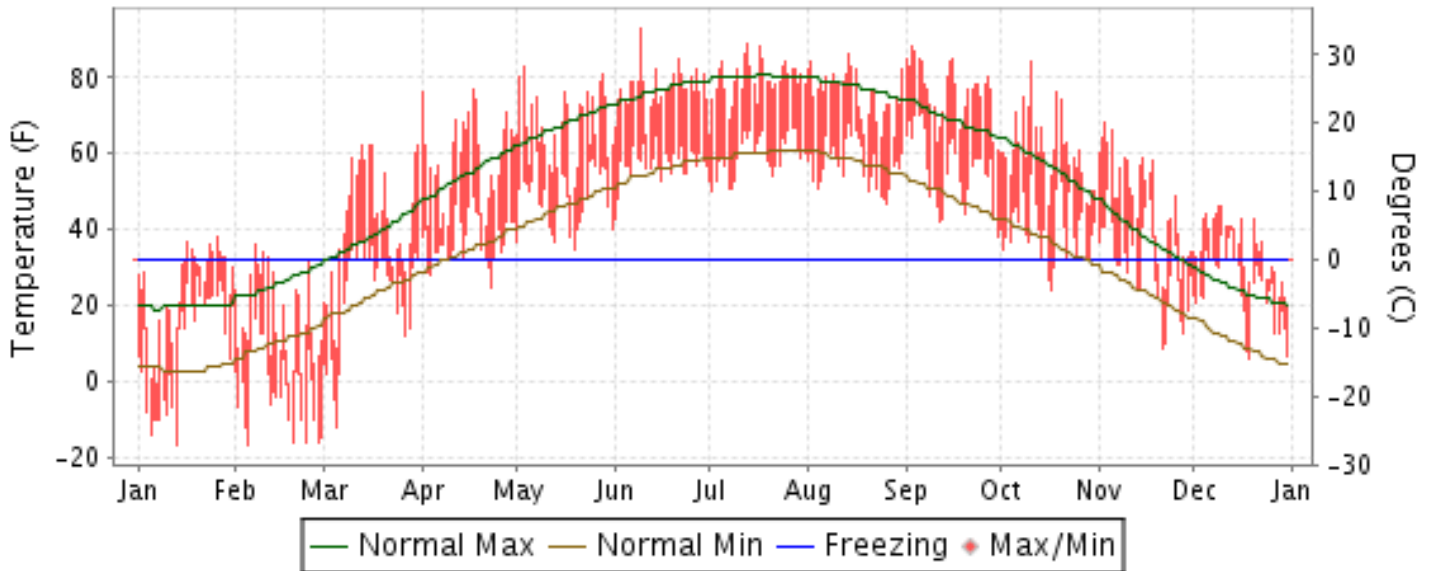


# 2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

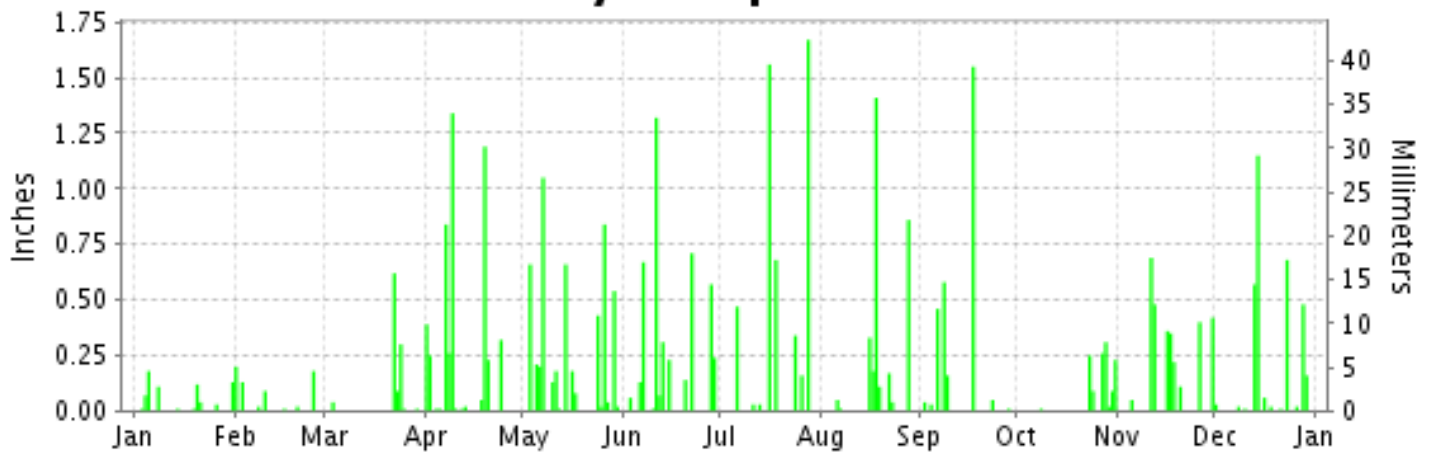
ISSN 0198-2753

## ROCHESTER, MINNESOTA (KRST)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL CENTERS for  
ENVIRONMENTAL INFORMATION (NCEI)  
ASHEVILLE, NORTH CAROLINA

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# METEOROLOGICAL DATA FOR 2015

## ROCHESTER (KRST)

LATITUDE: 43° 54'N      LONGITUDE: 92° 29'W      ELEVATION (FT): GRND: 1304 BARO: 1326      TIME ZONE: CENTRAL (UTC -6)      WBAN: 14925

| ELEMENT              |                             | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR   |   |
|----------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|---|
| TEMPERATURE °F       | MEAN DAILY MAXIMUM          | 24.2  | 17.1  | 42.0  | 58.3  | 67.0  | 77.2  | 79.4  | 75.9  | 76.3  | 60.9  | 47.8  | 34.9   | 55.1   |   |
|                      | HIGHEST DAILY MAXIMUM       | 38    | 36    | 62    | 77    | 83    | 93    | 89    | 86    | 88    | 84    | 68    | 46     | 93     |   |
|                      | DATE OF OCCURRENCE          | 26    | 07    | 31+   | 17    | 03    | 09    | 13    | 14    | 03    | 11    | 03    | 10+    | JUN 09 |   |
|                      | MEAN DAILY MINIMUM          | 9.6   | -1.6  | 22.9  | 37.1  | 48.4  | 57.4  | 59.6  | 57.2  | 56.1  | 40.0  | 30.9  | 24.8   | 36.9   |   |
|                      | LOWEST DAILY MINIMUM        | -17   | -17   | -12   | 25    | 35    | 43    | 50    | 47    | 38    | 24    | 9     | 6      | -17    |   |
|                      | DATE OF OCCURRENCE          | 13    | 05    | 05    | 23    | 19    | 01    | 02    | 26    | 30    | 17    | 21    | 19     | FEB 05 |   |
|                      | AVERAGE DRY BULB            | 16.9  | 7.8   | 32.5  | 47.7  | 57.7  | 67.3  | 69.5  | 66.5  | 66.2  | 50.5  | 39.3  | 29.8   | 46.0   |   |
|                      | MEAN WET BULB               | 16.6  | 7.7   | 29.1  | 41.3  | 52.6  | 61.8  | 64.7  | 62.7  | 60.9  | 44.9  | 36.4  | 28.8   | 42.3   |   |
|                      | MEAN DEW POINT              | 13.0  | 2.3   | 23.0  | 33.0  | 47.9  | 57.9  | 61.7  | 60.0  | 57.4  | 39.3  | 32.3  | 26.5   | 37.9   |   |
|                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
|                      | MAXIMUM >= 90°              | 0     | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 1 |
|                      | MAXIMUM <= 32°              | 22    | 25    | 8     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 4     | 11     | 70     |   |
| MINIMUM <= 32°       | 31                          | 28    | 25    | 4     | 0     | 0     | 0     | 0     | 0     | 3     | 16    | 25    | 132    |        |   |
| MINIMUM <= 0°        | 9                           | 16    | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 27     |        |   |
| H/C                  | HEATING DEGREE DAYS         | 1481  | 1594  | 1003  | 514   | 236   | 20    | 17    | 42    | 82    | 447   | 762   | 1081   | 7279   |   |
|                      | COOLING DEGREE DAYS         | 0     | 0     | 0     | 0     | 16    | 97    | 164   | 98    | 127   | 5     | 0     | 0      | 507    |   |
| RH                   | MEAN (PERCENT)              | 81    | 74    | 69    | 61    | 73    | 74    | 77    | 81    | 77    | 69    | 78    | 87     | 75     |   |
|                      | HOUR 00 LST                 | 84    | 75    | 75    | 68    | 81    | 82    | 86    | 89    | 85    | 75    | 83    | 88     | 81     |   |
|                      | HOUR 06 LST                 | 84    | 78    | 77    | 73    | 82    | 88    | 91    | 92    | 90    | 83    | 82    | 90     | 84     |   |
|                      | HOUR 12 LST                 | 78    | 71    | 62    | 53    | 64    | 65    | 64    | 69    | 61    | 56    | 69    | 84     | 66     |   |
|                      | HOUR 18 LST                 | 80    | 70    | 63    | 50    | 65    | 60    | 65    | 72    | 71    | 63    | 77    | 86     | 69     |   |
| W/O                  | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
|                      | HEAVY FOG(VISBY <= 1/4 MI)  | 5     | 3     | 1     | 3     | 2     | 1     | 1     | 4     | 2     | 1     | 2     | 8      | 33     |   |
|                      | THUNDERSTORMS               | 0     | 0     | 0     | 4     | 8     | 5     | 3     | 2     | 5     | 0     | 1     | 0      | 28     |   |
| PR                   | MEAN STATION PRESS. (IN.)   | 28.68 | 28.73 | 28.69 | 28.55 | 28.62 | 28.55 | 28.56 | 28.58 | 28.63 | 28.64 | 28.58 | 28.49  | 28.61  |   |
|                      | MEAN SEA-LEVEL PRESS. (IN.) | 30.17 | 30.23 | 30.15 | 29.97 | 30.03 | 29.94 | 29.94 | 29.97 | 30.02 | 30.07 | 30.02 | 29.94  | 30.04  |   |
| WINDS                | RESULTANT SPEED (MPH)       | 4.9   | 4.7   | 4.6   | 1.6   | 3.2   | 0.5   | 3.3   | 4.5   | 3.8   | 3.5   | 5.5   | 2.3    | 2.8    |   |
|                      | RES. DIR. (TENS OF DEGS.)   | 27    | 29    | 25    | 33    | 19    | 15    | 21    | 23    | 17    | 24    | 21    | 25     | 24     |   |
|                      | MEAN SPEED (MPH)            | 12.7  | 13.3  | 12.8  | 13.4  | 12.7  | 9.4   | 9.0   | 9.8   | 9.6   | 12.3  | 13.6  | 12.6   | 11.8   |   |
|                      | PREVAIL.DIR.(TENS OF DEGS.) | 28    | 31    | 30    | 31    | 19    | 17    | 15    | 18    | 18    | 19    | 18    | 18     | 18     |   |
|                      | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
|                      | SPEED (MPH)                 | 38    | 39    | 38    | 38    | 39    | 31    | 40    | 31    | 35    | 38    | 41    | 36     | 41     |   |
|                      | DIR. (TENS OF DEGS.)        | 31    | 31    | 31    | 19    | 18    | 22    | 35    | 17    | 23    | 31    | 27    | 26     | 27     |   |
|                      | DATE OF OCCURRENCE          | 08    | 24    | 29    | 01    | 06    | 22    | 18    | 22    | 09    | 12    | 19    | 16     | NOV 19 |   |
|                      | MAXIMUM 3-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
| SPEED (MPH)          | 48                          | 45    | 46    | 47    | 56    | 37    | 48    | 44    | 43    | 50    | 52    | 45    | 56     |        |   |
| DIR. (TENS OF DEGS.) | 32                          | 32    | 32    | 18    | 21    | 22    | 35    | 18    | 17    | 30    | 29    | 30    | 21     |        |   |
| DATE OF OCCURRENCE   | 08                          | 24    | 29    | 01    | 06    | 22    | 18    | 22    | 15    | 12    | 19    | 10    | MAY 06 |        |   |
| PRECIPITATION        | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
|                      | TOTAL (IN.)                 | 0.71  | 0.65  | 1.07  | 4.93  | 5.25  | 4.46  | 4.94  | 3.16  | 2.88  | 1.26  | 3.08  | 3.21   | 35.60  |   |
|                      | GREATEST 24-HOUR (IN.)      | 0.18  | 0.20  | 0.71  | 1.58  | 1.05  | 1.39  | 1.67  | 1.42  | 1.55  | 0.55  | 1.17  | 1.45   | 1.67   |   |
|                      | DATE OF OCCURRENCE          | 05    | 01    | 22-23 | 08-09 | 07    | 11-12 | 28    | 18-19 | 17    | 27-28 | 11-12 | 13-14  | JUL 28 |   |
|                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
| PRECIPITATION 0.01   | 10                          | 7     | 6     | 14    | 16    | 12    | 8     | 9     | 8     | 8     | 9     | 12    | 119    |        |   |
| PRECIPITATION 0.10   | 4                           | 3     | 2     | 8     | 11    | 9     | 6     | 6     | 4     | 4     | 8     | 5     | 70     |        |   |
| PRECIPITATION 1.00   | 0                           | 0     | 0     | 2     | 1     | 1     | 2     | 1     | 1     | 0     | 0     | 1     | 9      |        |   |
| SNOWFALL             | SNOW,ICE PELLETS,HAIL       |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
|                      | TOTAL (IN.)                 | 10.0  | 10.6  | 10.9  | 1.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 2.3   | 13.2   | 48.7   |   |
|                      | GREATEST 24-HOUR (IN.)      | 2.2   | 3.9   | 7.4   | 1.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 1.3   | 6.8    | 7.4    |   |
|                      | DATE OF OCCURRENCE          | 08    | 03    | 22    | 09    |       |       |       |       |       | 28    | 20    | 28     | MAR 22 |   |
|                      | MAXIMUM SNOW DEPTH (IN.)    | 8     | 10    | 10    | T     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 10     | 10     |   |
|                      | DATE OF OCCURRENCE          | 10+   | 07+   | 25    | 10    |       |       |       |       |       |       | 30    | 30     | DEC 30 |   |
| NUMBER OF DAYS WITH: |                             |       |       |       |       |       |       |       |       |       |       |       |        |        |   |
| SNOWFALL >= 1.0      | 5                           | 4     | 2     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 3     | 16     |        |   |

# NORMALS, MEANS, AND EXTREMES ROCHESTER (KRST)

**LATITUDE:** 43° 54'N      **LONGITUDE:** 92° 29'W      **ELEVATION (FT):** GRND: 1304 BARO: 1326      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 14925**

| ELEMENT                                  |  | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC      | YEAR     |
|--|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| <b>TEMPERATURE °F</b>                    | NORMAL DAILY MAXIMUM                               | 30   | 23.6  | 28.1  | 40.5  | 57.0  | 68.7  | 78.0  | 81.4  | 78.9  | 71.4  | 58.4  | 41.6  | 27.1     | 54.6     |
|  | MEAN DAILY MAXIMUM                                 | 100  | 21.7  | 25.6  | 38.8  | 54.8  | 68.0  | 75.8  | 81.7  | 79.7  | 70.6  | 58.7  | 40.9  | 27.2     | 53.6     |
|  | HIGHEST DAILY MAXIMUM                              | 56   | 55    | 63    | 81    | 92    | 97    | 101   | 102   | 99    | 95    | 93    | 75    | 62       | 102      |
|  | YEAR OF OCCURRENCE                                 |      | 2012  | 1981  | 2012  | 2009  | 2013  | 2011  | 1988  | 1988  | 1978  | 1997  | 2012  | 2012     | JUL 1988 |
|  | MEAN OF EXTREME MAXS.                              | 101  | 40.3  | 43.5  | 60.8  | 78.4  | 86.4  | 90.9  | 91.9  | 90.1  | 86.4  | 78.8  | 62.8  | 45.4     | 71.3     |
|  | NORMAL DAILY MINIMUM                               | 30   | 7.7   | 12.4  | 24.3  | 36.4  | 47.4  | 57.2  | 61.3  | 59.3  | 50.4  | 38.4  | 26.0  | 12.2     | 36.1     |
|  | MEAN DAILY MINIMUM                                 | 100  | 4.4   | 8.3   | 21.1  | 34.0  | 46.1  | 54.7  | 59.9  | 57.6  | 48.3  | 37.4  | 24.1  | 11.5     | 34.0     |
|  | LOWEST DAILY MINIMUM                               | 56   | -32   | -35   | -31   | 5     | 21    | 35    | 42    | 37    | 23    | 11    | -20   | -33      | -35      |
|  | YEAR OF OCCURRENCE                                 |      | 1970  | 1996  | 1962  | 1982  | 1967  | 1990  | 1967  | 1964  | 1967  | 1988  | 1977  | 1983     | FEB 1996 |
|  | MEAN OF EXTREME MINS.                              | 101  | -18.6 | -13.7 | -1.7  | 19.3  | 31.3  | 42.6  | 49.1  | 45.9  | 33.1  | 22.1  | 4.6   | -11.5    | 16.9     |
|  | NORMAL DRY BULB                                    | 30   | 15.7  | 20.3  | 32.4  | 46.7  | 58.1  | 67.6  | 71.4  | 69.1  | 60.9  | 48.4  | 33.8  | 19.7     | 45.3     |
|  | MEAN DRY BULB                                      | 100  | 13.1  | 16.9  | 29.9  | 44.4  | 57.1  | 65.4  | 70.8  | 68.7  | 59.5  | 48.1  | 32.6  | 19.4     | 43.8     |
|  | MEAN WET BULB                                      | 32   | 12.9  | 16.0  | 27.3  | 38.3  | 49.2  | 59.2  | 63.8  | 62.3  | 53.8  | 41.3  | 28.8  | 17.8     | 39.2     |
|  | MEAN DEW POINT                                     | 32   | 11.8  | 14.7  | 25.7  | 35.9  | 47.3  | 57.6  | 62.6  | 61.3  | 52.5  | 39.7  | 27.7  | 16.7     | 37.8     |
|  | NORMAL NO. DAYS WITH:<br>MAXIMUM >= 90             | 30   | 0.0   | 0.0   | 0.0   | 0.0   | 0.4   | 1.5   | 2.5   | 1.4   | 0.1   | 0.1   | 0.0   | 0.0      | 6.0      |
|  | MAXIMUM <= 32                                      | 30   | 22.4  | 16.3  | 6.2   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 6.1   | 19.5     | 71.1     |
| MINIMUM <= 32                            | 30   | 30.5 | 26.3  | 23.4  | 8.6   | 0.7   | 0.0   | 0.0   | 0.0   | 0.5   | 8.1   | 21.3  | 29.5  | 148.9    |          |
| MINIMUM <= 0                             | 30   | 9.4  | 6.0   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.7   | 6.5   | 23.9     |          |
| <b>H/C</b>                               | NORMAL HEATING DEG. DAYS                           | 30   | 1530  | 1253  | 1011  | 553   | 245   | 52    | 11    | 27    | 177   | 521   | 936   | 1406     | 7722     |
|  | NORMAL COOLING DEG. DAYS                           | 30   | 0     | 0     | 0     | 4     | 30    | 130   | 207   | 154   | 54    | 6     | 0     | 0        | 585      |
| <b>RH</b>                                | NORMAL (PERCENT)                                   | 30   | 80    | 79    | 76    | 68    | 68    | 70    | 74    | 77    | 75    | 72    | 79    | 82       | 75       |
|  | HOURLY 00 LST                                      | 30   | 81    | 82    | 80    | 75    | 76    | 80    | 85    | 87    | 84    | 78    | 82    | 83       | 81       |
|  | HOURLY 06 LST                                      | 30   | 82    | 83    | 83    | 80    | 81    | 83    | 87    | 90    | 89    | 84    | 85    | 85       | 84       |
|  | HOURLY 12 LST                                      | 30   | 76    | 74    | 69    | 58    | 57    | 58    | 61    | 64    | 62    | 60    | 71    | 78       | 66       |
|  | HOURLY 18 LST                                      | 30   | 79    | 78    | 71    | 58    | 56    | 58    | 63    | 67    | 68    | 67    | 77    | 82       | 69       |
| <b>S</b>                                 | PERCENT POSSIBLE SUNSHINE                          |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| <b>W/O</b>                               | MEAN NO. DAYS WITH:<br>HEAVY FOG (VISIB <= 1/4 MI) | 52   | 3.3   | 3.4   | 4.2   | 2.0   | 1.7   | 1.3   | 2.0   | 3.0   | 2.2   | 1.9   | 3.0   | 4.5      | 32.5     |
|  | THUNDERSTORMS                                      | 68   | 0.1   | 0.2   | 1.1   | 3.1   | 5.4   | 7.7   | 7.0   | 6.2   | 4.4   | 1.8   | 0.5   | 0.1      | 37.6     |
| <b>CLOUDINESS</b>                        | MEAN:<br>SUNRISE-SUNSET (OKTAS)                    | 36   | 5.3   | 5.3   | 5.5   | 5.4   | 5.2   | 5.0   | 4.4   | 4.4   | 4.7   | 4.8   | 5.8   | 5.6      | 5.1      |
|  | MIDNIGHT-MIDNIGHT (OKTAS)                          | 32   | 5.0   | 4.9   | 5.3   | 5.2   | 5.0   | 4.5   | 4.0   | 4.1   | 4.3   | 4.6   | 5.4   | 5.3      | 4.8      |
|  | MEAN NO. DAYS WITH:<br>CLEAR                       | 36   | 7.4   | 7.3   | 6.3   | 6.1   | 6.8   | 6.7   | 8.4   | 8.7   | 9.1   | 8.5   | 5.0   | 6.0      | 86.3     |
|  | PARTLY CLOUDY                                      | 36   | 7.1   | 6.2   | 7.1   | 7.4   | 8.8   | 10.7  | 11.9  | 11.1  | 7.3   | 7.8   | 5.6   | 6.3      | 97.3     |
|  | CLOUDY   | 36   | 16.5  | 14.8  | 17.6  | 16.4  | 15.4  | 12.7  | 10.7  | 11.2  | 13.6  | 14.7  | 19.4  | 18.7     | 181.7    |
| <b>PR</b>                                | MEAN STATION PRESSURE (IN)                         | 32   | 28.61 | 28.63 | 28.60 | 28.53 | 28.54 | 28.54 | 28.59 | 28.62 | 28.62 | 28.60 | 28.59 | 28.61    | 28.59    |
|  | MEAN SEA-LEVEL PRES. (IN)                          | 32   | 30.09 | 30.10 | 30.05 | 29.95 | 29.95 | 29.93 | 29.97 | 30.01 | 30.02 | 30.02 | 30.04 | 30.08    | 30.02    |
| <b>WINDS</b>                             | MEAN SPEED (MPH)                                   | 32   | 13.6  | 13.2  | 13.4  | 13.8  | 12.8  | 11.2  | 9.8   | 9.3   | 10.6  | 11.9  | 13.3  | 13.1     | 12.2     |
|  | PREVAIL. DIR. (TENS OF DEGS)                       | 42   | 32    | 31    | 32    | 32    | 17    | 19    | 19    | 19    | 19    | 19    | 31    | 32       | 32       |
|  | MAXIMUM 2-MINUTE:<br>SPEED (MPH)                   | 19   | 47    | 44    | 47    | 51    | 55    | 48    | 46    | 62    | 40    | 46    | 47    | 44       | 62       |
|  | DIR. (TENS OF DEGS)                                |      | 30    | 32    | 29    | 23    | 32    | 31    | 30    | 34    | 32    | 25    | 29    | 31       | 34       |
|  | YEAR OF OCCURRENCE                                 |      | 2013  | 2002  | 1999  | 2001  | 2012  | 1999  | 2008  | 2006  | 2011  | 2010  | 1998  | 2004     | AUG 2006 |
|  | MAXIMUM 3-SECOND<br>SPEED (MPH)                    | 19   | 58    | 54    | 58    | 62    | 69    | 59    | 62    | 74    | 56    | 58    | 56    | 58       | 74       |
|  | DIR. (TENS OF DEGS)                                |      | 30    | 24    | 18    | 22    | 31    | 33    | 23    | 34    | 31    | 24    | 18    | 31       | 34       |
| YEAR OF OCCURRENCE                       |  | 2014 | 2009  | 2012  | 2001  | 2012  | 2014  | 2007  | 2007  | 2011  | 2010  | 1998  | 2004  | AUG 2007 |          |
| <b>PRECIPITATION</b>                     | NORMAL (IN)  | 30   | 0.86  | 0.83  | 1.88  | 3.24  | 3.63  | 4.68  | 4.55  | 4.52  | 3.45  | 2.24  | 1.91  | 1.23     | 33.02    |
|  | MAXIMUM MONTHLY (IN)                               | 56   | 2.53  | 2.21  | 3.58  | 7.30  | 12.26 | 12.51 | 12.33 | 14.07 | 10.50 | 7.57  | 5.90  | 3.68     | 14.07    |
|  | YEAR OF OCCURRENCE                                 |      | 1967  | 1971  | 1990  | 2001  | 2013  | 2000  | 1978  | 2007  | 1986  | 2009  | 1991  | 2010     | AUG 2007 |
|  | MINIMUM MONTHLY (IN)                               | 56   | 0.07  | 0.04  | 0.32  | 0.94  | 1.17  | 0.94  | 1.02  | 0.34  | 0.38  | 0.27  | 0.06  | 0.22     | 0.04     |
|  | YEAR OF OCCURRENCE                                 |      | 1961  | 1964  | 1994  | 2000  | 1963  | 1985  | 1975  | 2003  | 1975  | 1965  | 1967  | 1967     | FEB 1964 |
|  | MAXIMUM IN 24 HOURS (IN)                           | 56   | 1.42  | 1.31  | 2.20  | 3.97  | 5.23  | 4.80  | 7.47  | 6.24  | 6.01  | 2.81  | 2.64  | 7.55     | 7.55     |
|  | YEAR OF OCCURRENCE                                 |      | 1967  | 2012  | 2011  | 1990  | 2000  | 2000  | 1981  | 2007  | 1978  | 1966  | 1991  | 2012     | DEC 2012 |
|  | NORMAL NO. DAYS WITH:<br>PRECIPITATION >= 0.01     | 30   | 8.4   | 7.9   | 10.2  | 11.2  | 12.4  | 11.7  | 10.5  | 10.0  | 9.9   | 9.4   | 9.3   | 9.7      | 120.6    |
| PRECIPITATION >= 1.00                    | 30   | 0.0  | 0.0   | 0.2   | 0.6   | 0.8   | 1.2   | 1.2   | 1.2   | 0.9   | 0.4   | 0.3   | 0.1   | 6.9      |          |
| <b>SNOWFALL</b>                          | NORMAL (IN)  | 30   | 12.0  | 8.5   | 8.7   | 3.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.8   | 6.1   | 12.5     | 51.9     |
|  | MAXIMUM MONTHLY (IN)                               | 52   | 30.2  | 20.1  | 25.2  | 16.4  | 14.5  | T     | T     | T     | 0.8   | 7.9   | 22.5  | 41.3     | 41.3     |
|  | YEAR OF OCCURRENCE                                 |      | 1996  | 2007  | 1985  | 1983  | 2013  | 1993  | 2009  | 2007  | 1961  | 2009  | 1985  | 2010     | DEC 2010 |
|  | MAXIMUM IN 24 HOURS (IN)                           | 52   | 15.4  | 9.3   | 19.8  | 13.7  | 14.0  | T     | T     | T     | 0.8   | 5.4   | 9.2   | 15.0     | 19.8     |
|  | YEAR OF OCCURRENCE                                 |      | 1982  | 1983  | 2005  | 1988  | 2013  | 1993  | 2009  | 1989  | 1961  | 1979  | 1991  | 2010     | MAR 2005 |
|  | MAXIMUM SNOW DEPTH (IN)                            | 63   | 29    | 21    | 25    | 11    | 13    | 0     | 0     | 0     | 0     | 4     | 11    | 29       | 29       |
|  | YEAR OF OCCURRENCE                                 |      | 1982  | 2014  | 2014  | 1988  | 2013  |       |       |       |       | 1979  | 2006  | 2010     | DEC 2010 |
| NORMAL NO. DAYS WITH:<br>SNOWFALL >= 1.0 | 30   | 3.6  | 2.7   | 2.5   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 1.8   | 3.6   | 15.2     |          |

**PRECIPITATION (inches) 2015 ROCHESTER (KRST)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL  | AUG   | SEP   | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|-------|-------|------|-------|-------|------|------|------|--------|
| 1986           | 0.59 | 0.61 | 2.15 | 3.80 | 3.40  | 5.04  | 6.00 | 3.17  | 10.50 | 3.57 | 0.84 | 0.32 | 39.99  |
| 1987           | 0.58 | 0.23 | 1.29 | 1.02 | 2.12  | 3.69  | 7.24 | 3.85  | 2.05  | 1.61 | 1.94 | 1.75 | 27.37  |
| 1988           | 1.16 | 0.22 | 1.56 | 2.43 | 2.35  | 1.52  | 1.12 | 2.88  | 3.77  | 0.40 | 2.87 | 1.11 | 21.39  |
| 1989           | 0.41 | 0.42 | 1.65 | 3.49 | 1.74  | 2.39  | 3.31 | 5.73  | 0.61  | 1.67 | 1.62 | 0.38 | 23.42  |
| 1990           | 0.55 | 0.71 | 3.58 | 6.47 | 4.52  | 9.27  | 8.29 | 5.30  | 1.30  | 1.86 | 0.44 | 1.65 | 43.94  |
| 1991           | 0.67 | 0.45 | 2.82 | 5.25 | 3.84  | 2.25  | 5.32 | 4.66  | 2.31  | 1.99 | 5.90 | 1.47 | 36.93  |
| 1992           | 1.03 | 0.55 | 2.53 | 3.24 | 1.60  | 1.59  | 3.51 | 1.50  | 4.93  | 1.30 | 4.02 | 1.30 | 27.10  |
| 1993           | 1.15 | 0.83 | 2.92 | 4.56 | 4.32  | 7.44  | 5.00 | 6.88  | 2.75  | 0.85 | 1.00 | 0.74 | 38.44  |
| 1994           | 1.21 | 0.72 | 0.32 | 4.95 | 3.22  | 2.89  | 4.79 | 5.64  | 3.62  | 1.59 | 1.77 | 0.54 | 31.26  |
| 1995           | 0.45 | 0.15 | 2.98 | 2.91 | 3.18  | 3.30  | 3.56 | 3.23  | 2.34  | 3.07 | 0.68 | 0.62 | 26.47  |
| 1996           | 2.00 | 0.18 | 2.64 | 1.53 | 2.13  | 6.43  | 1.93 | 2.94  | 2.08  | 2.86 | 3.94 | 1.37 | 30.03  |
| 1997           | 1.63 | 0.92 | 1.63 | 2.32 | 3.05  | 2.59  | 9.00 | 3.23  | 1.85  | 2.71 | 0.26 | 0.38 | 29.57  |
| 1998           | 1.47 | 1.44 | 3.27 | 2.20 | 3.38  | 5.51  | 3.30 | 4.46  | 1.04  | 4.71 | 1.15 | 0.28 | 32.21  |
| 1999           | 2.07 | 1.13 | 0.81 | 6.47 | 5.32  | 3.76  | 8.74 | 6.20  | 0.56  | 0.92 | 1.00 | 0.49 | 37.47  |
| 2000           | 0.41 | 0.45 | 0.64 | 0.94 | 7.38  | 12.51 | 5.57 | 5.26  | 1.03  | 1.65 | 3.06 | 1.64 | 40.54  |
| 2001           | 0.91 | 1.06 | 1.39 | 7.30 | 7.18  | 5.05  | 2.46 | 4.77  | 3.82  | 1.71 | 2.06 | 1.39 | 39.10  |
| 2002           | 0.65 | 1.68 | 1.24 | 3.40 | 1.47  | 8.20  | 5.00 | 4.64  | 2.02  | 3.50 | 0.12 | 0.56 | 32.48  |
| 2003           | 0.31 | 0.65 | 2.28 | 2.54 | 4.65  | 4.74  | 3.39 | 0.34  | 1.58  | 0.52 | 0.99 | 1.35 | 23.34  |
| 2004           | 0.32 | 1.72 | 2.21 | 2.34 | 6.38  | 8.53  | 4.59 | 3.44  | 5.80  | 2.11 | 1.49 | 0.59 | 39.52  |
| 2005           | 1.16 | 1.19 | 1.98 | 1.77 | 3.54  | 3.72  | 5.13 | 4.04  | 7.13  | 0.88 | 2.26 | 0.59 | 33.39  |
| 2006           | 0.30 | 0.40 | 2.54 | 5.51 | 1.86  | 3.45  | 2.90 | 6.25  | 3.34  | 0.79 | 2.84 | 2.04 | 32.22  |
| 2007           | 0.53 | 1.65 | 3.21 | 1.11 | 3.35  | 4.00  | 1.07 | 14.07 | 7.40  | 3.40 | 0.18 | 1.21 | 41.18  |
| 2008           | 0.67 | 0.56 | 1.58 | 4.17 | 3.47  | 7.15  | 3.21 | 1.92  | 1.75  | 2.45 | 2.34 | 1.52 | 30.79  |
| 2009           | 0.64 | 0.79 | 0.88 | 2.09 | 3.77  | 3.33  | 3.51 | 4.16  | 1.28  | 7.57 | 0.45 | 2.22 | 30.69  |
| 2010           | 0.58 | 0.79 | 1.05 | 1.62 | 2.04  | 7.79  | 4.98 | 3.72  | 9.95  | 0.79 | 2.86 | 3.68 | 39.85  |
| 2011           | 0.84 | 0.77 | 3.51 | 4.03 | 3.92  | 5.20  | 4.18 | 0.96  | 2.47  | 0.29 | 0.38 | 1.21 | 27.76  |
| 2012           | 0.57 | 1.63 | 1.24 | 2.66 | 4.85  | 3.25  | 3.25 | 1.96  | 1.29  | 1.85 | 0.51 | 1.78 | 24.84  |
| 2013           | 0.78 | 1.22 | 2.85 | 6.79 | 12.26 | 6.86  | 2.14 | 1.80  | 1.22  | 2.98 | 1.76 | 1.10 | 41.76  |
| 2014           | 1.00 | 1.76 | 1.15 | 5.64 | 1.78  | 7.27  | 2.23 | 5.36  | 3.54  | 2.37 | 0.91 | 1.02 | 34.03  |
| 2015           | 0.71 | 0.65 | 1.07 | 4.93 | 5.25  | 4.46  | 4.94 | 3.16  | 2.88  | 1.26 | 3.08 | 3.21 | 35.60  |
| POR=<br>97 YRS | 0.85 | 0.80 | 1.69 | 2.79 | 3.74  | 4.52  | 3.85 | 3.82  | 3.17  | 2.05 | 1.62 | 1.04 | 29.94  |

WBAN : 14925

**AVERAGE TEMPERATURE (°F) 2015 ROCHESTER (KRST)**

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1986            | 15.9 | 15.3 | 32.7 | 48.4 | 57.5 | 65.9 | 71.4 | 64.0 | 59.5 | 47.5 | 26.3 | 22.5 | 43.9   |
| 1987            | 19.2 | 29.3 | 36.2 | 50.8 | 61.0 | 70.0 | 73.7 | 66.8 | 60.0 | 42.3 | 36.8 | 23.3 | 47.5   |
| 1988            | 8.3  | 12.3 | 31.9 | 44.0 | 61.7 | 70.4 | 73.7 | 72.6 | 61.0 | 42.0 | 32.5 | 19.2 | 44.1   |
| 1989            | 21.7 | 9.4  | 26.3 | 44.1 | 55.8 | 64.4 | 72.3 | 68.5 | 58.2 | 48.7 | 27.1 | 10.0 | 42.2   |
| 1990            | 25.8 | 22.1 | 35.3 | 45.5 | 53.8 | 67.6 | 69.4 | 69.4 | 62.4 | 46.5 | 37.7 | 15.4 | 45.9   |
| 1991            | 10.1 | 23.5 | 34.1 | 48.3 | 61.0 | 72.2 | 70.1 | 69.0 | 57.4 | 45.5 | 24.0 | 21.6 | 44.7   |
| 1992            | 21.4 | 26.7 | 31.3 | 42.1 | 58.2 | 64.6 | 64.2 | 63.2 | 57.7 | 46.0 | 30.8 | 19.8 | 43.8   |
| 1993            | 12.6 | 14.6 | 25.7 | 41.7 | 55.7 | 63.6 | 69.0 | 68.3 | 53.6 | 45.5 | 30.3 | 21.5 | 41.8   |
| 1994            | 3.4  | 11.0 | 33.1 | 44.5 | 58.3 | 68.6 | 67.3 | 64.9 | 63.2 | 50.4 | 36.4 | 24.0 | 43.8   |
| 1995            | 16.3 | 18.9 | 33.4 | 40.3 | 55.1 | 69.2 | 70.9 | 73.3 | 57.8 | 46.7 | 25.7 | 18.1 | 43.8   |
| 1996            | 9.6  | 17.0 | 25.1 | 40.8 | 53.4 | 66.4 | 66.8 | 66.5 | 58.7 | 47.8 | 24.6 | 13.8 | 40.9   |
| 1997            | 10.5 | 18.9 | 28.3 | 41.7 | 51.3 | 67.7 | 68.9 | 65.5 | 60.4 | 49.7 | 27.6 | 25.0 | 43.0   |
| 1998            | 19.7 | 29.5 | 30.0 | 49.1 | 63.2 | 63.9 | 69.6 | 69.1 | 64.4 | 49.6 | 36.3 | 25.1 | 47.5   |
| 1999            | 11.2 | 26.6 | 32.8 | 46.7 | 58.1 | 65.7 | 73.2 | 66.7 | 58.1 | 47.0 | 40.1 | 23.6 | 45.8   |
| 2000            | 14.4 | 26.3 | 39.3 | 45.6 | 58.9 | 64.5 | 69.4 | 69.0 | 59.9 | 51.7 | 30.0 | 6.1  | 44.6   |
| 2001            | 17.4 | 11.2 | 24.0 | 47.7 | 57.6 | 66.4 | 72.5 | 68.9 | 58.0 | 46.6 | 45.4 | 26.4 | 45.2   |
| 2002            | 24.3 | 26.0 | 25.5 | 44.6 | 53.9 | 68.8 | 73.0 | 67.2 | 62.6 | 41.9 | 31.3 | 24.4 | 45.3   |
| 2003            | 13.6 | 14.9 | 30.9 | 45.5 | 55.3 | 65.4 | 69.6 | 70.8 | 59.6 | 48.6 | 32.0 | 24.4 | 44.2   |
| 2004            | 12.4 | 20.1 | 36.0 | 48.5 | 56.7 | 64.2 | 68.2 | 63.5 | 64.4 | 48.6 | 36.3 | 21.6 | 45.0   |
| 2005            | 14.3 | 24.6 | 29.7 | 50.0 | 55.0 | 71.9 | 72.4 | 67.7 | 64.8 | 51.6 | 35.9 | 17.2 | 46.3   |
| 2006            | 28.2 | 19.6 | 32.8 | 51.3 | 59.4 | 68.3 | 74.3 | 69.6 | 57.8 | 44.7 | 36.6 | 29.0 | 47.6   |
| 2007            | 18.3 | 10.5 | 35.8 | 44.7 | 62.6 | 69.3 | 71.8 | 69.8 | 63.9 | 54.5 | 33.7 | 17.1 | 46.0   |
| 2008            | 13.7 | 13.3 | 28.5 | 44.1 | 56.2 | 68.1 | 71.2 | 68.5 | 62.6 | 49.6 | 34.6 | 12.5 | 43.6   |
| 2009            | 8.6  | 20.7 | 32.8 | 46.2 | 58.0 | 65.9 | 65.3 | 65.7 | 62.6 | 42.6 | 42.8 | 16.7 | 44.0   |
| 2010            | 11.0 | 15.8 | 38.3 | 53.0 | 59.2 | 67.1 | 72.7 | 72.8 | 59.6 | 52.6 | 35.2 | 14.8 | 46.0   |
| 2011            | 11.5 | 18.0 | 29.9 | 45.4 | 57.8 | 68.0 | 75.1 | 69.2 | 59.3 | 53.0 | 38.5 | 26.1 | 46.0   |
| 2012            | 22.8 | 27.7 | 49.2 | 49.1 | 63.3 | 71.0 | 77.1 | 69.2 | 61.8 | 48.8 | 38.4 | 24.0 | 50.2   |
| 2013            | 17.5 | 19.4 | 23.8 | 40.2 | 55.7 | 67.0 | 71.4 | 69.9 | 64.0 | 47.7 | 31.1 | 13.1 | 43.4   |
| 2014            | 6.5  | 6.7  | 24.2 | 42.2 | 57.9 | 68.8 | 67.6 | 70.5 | 59.8 | 47.4 | 24.7 | 23.6 | 41.7   |
| 2015            | 16.9 | 7.8  | 32.5 | 47.7 | 57.7 | 67.3 | 69.5 | 66.5 | 66.2 | 50.5 | 39.3 | 29.8 | 46.0   |
| POR=<br>100 YRS | 13.1 | 16.9 | 29.9 | 44.4 | 57.1 | 65.4 | 70.8 | 68.7 | 59.5 | 48.1 | 32.6 | 19.4 | 43.8   |

**HEATING DEGREE DAYS (base 65°F) 2015 ROCHESTER (KRST)**

| YEAR    | JUL | AUG | SEP | OCT | NOV  | DEC  | JAN  | FEB  | MAR  | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1987-88 | 8   | 64  | 168 | 697 | 837  | 1290 | 1755 | 1527 | 1020 | 620 | 144 | 22  | 8152  |
| 1988-89 | 3   | 27  | 154 | 706 | 970  | 1414 | 1335 | 1555 | 1190 | 620 | 290 | 99  | 8363  |
| 1989-90 | 0   | 16  | 224 | 500 | 1132 | 1700 | 1205 | 1196 | 912  | 596 | 341 | 55  | 7877  |
| 1990-91 | 9   | 14  | 167 | 567 | 815  | 1534 | 1701 | 1154 | 950  | 507 | 222 | 12  | 7652  |
| 1991-92 | 15  | 24  | 274 | 597 | 1225 | 1342 | 1343 | 1104 | 1036 | 678 | 239 | 80  | 7957  |
| 1992-93 | 73  | 104 | 226 | 587 | 1019 | 1394 | 1618 | 1407 | 1211 | 693 | 294 | 87  | 8713  |
| 1993-94 | 7   | 32  | 341 | 605 | 1033 | 1344 | 1910 | 1509 | 985  | 613 | 234 | 34  | 8647  |
| 1994-95 | 26  | 73  | 116 | 445 | 848  | 1264 | 1503 | 1284 | 974  | 732 | 300 | 56  | 7621  |
| 1995-96 | 14  | 0   | 242 | 569 | 1175 | 1447 | 1715 | 1386 | 1232 | 721 | 377 | 71  | 8949  |
| 1996-97 | 22  | 18  | 215 | 528 | 1206 | 1579 | 1682 | 1286 | 1132 | 689 | 416 | 21  | 8794  |
| 1997-98 | 38  | 51  | 151 | 498 | 1117 | 1236 | 1398 | 990  | 1075 | 470 | 116 | 111 | 7251  |
| 1998-99 | 3   | 1   | 99  | 473 | 854  | 1232 | 1662 | 1069 | 990  | 543 | 222 | 81  | 7229  |
| 1999-00 | 5   | 20  | 239 | 551 | 738  | 1276 | 1558 | 1114 | 793  | 574 | 224 | 84  | 7176  |
| 2000-01 | 26  | 11  | 193 | 407 | 1040 | 1820 | 1470 | 1499 | 1262 | 517 | 248 | 94  | 8587  |
| 2001-02 | 13  | 31  | 222 | 563 | 582  | 1190 | 1254 | 1087 | 1217 | 618 | 363 | 44  | 7184  |
| 2002-03 | 1   | 22  | 145 | 710 | 1003 | 1255 | 1585 | 1396 | 1051 | 587 | 295 | 62  | 8112  |
| 2003-04 | 10  | 9   | 217 | 508 | 982  | 1254 | 1626 | 1295 | 892  | 495 | 259 | 86  | 7633  |
| 2004-05 | 17  | 100 | 92  | 502 | 857  | 1337 | 1563 | 1122 | 1091 | 442 | 307 | 1   | 7431  |
| 2005-06 | 7   | 23  | 92  | 446 | 868  | 1473 | 1135 | 1264 | 991  | 402 | 246 | 32  | 6979  |
| 2006-07 | 0   | 0   | 229 | 636 | 846  | 1108 | 1439 | 1518 | 900  | 606 | 134 | 14  | 7430  |
| 2007-08 | 3   | 14  | 112 | 360 | 930  | 1479 | 1589 | 1493 | 1125 | 621 | 275 | 11  | 8012  |
| 2008-09 | 1   | 11  | 116 | 475 | 904  | 1619 | 1743 | 1233 | 992  | 562 | 235 | 86  | 7977  |
| 2009-10 | 40  | 54  | 97  | 688 | 658  | 1491 | 1666 | 1370 | 819  | 355 | 244 | 22  | 7504  |
| 2010-11 | 0   | 8   | 167 | 387 | 889  | 1550 | 1656 | 1307 | 1082 | 582 | 248 | 50  | 7926  |
| 2011-12 | 0   | 5   | 210 | 388 | 786  | 1198 | 1302 | 1074 | 502  | 470 | 114 | 17  | 6066  |
| 2012-13 | 0   | 24  | 146 | 495 | 789  | 1264 | 1465 | 1268 | 1266 | 736 | 312 | 60  | 7825  |
| 2013-   | 23  | 11  | 120 | 529 | 1010 | 1601 |      |      |      |     |     |     |       |
| 2013-14 | 23  | 11  | 120 | 529 | 1010 | 1601 | 1803 | 1628 | 1255 | 675 | 251 | 11  | 8917  |
| 2014-15 | 22  | 3   | 180 | 540 | 1202 | 1273 | 1481 | 1594 | 1003 | 514 | 236 | 20  | 8068  |
| 2015-   | 17  | 42  | 82  | 447 | 762  | 1081 |      |      |      |     |     |     |       |

WBAN : 14925

**COOLING DEGREE DAYS (base 65°F) 2015 ROCHESTER (KRST)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1986 | 0   | 0   | 0   | 2   | 21  | 94  | 211 | 59  | 29  | 0   | 0   | 0   | 416   |
| 1987 | 0   | 0   | 0   | 6   | 57  | 189 | 283 | 124 | 26  | 0   | 0   | 0   | 685   |
| 1988 | 0   | 0   | 0   | 0   | 48  | 191 | 280 | 272 | 38  | 0   | 0   | 0   | 829   |
| 1989 | 0   | 0   | 0   | 0   | 10  | 90  | 235 | 133 | 26  | 2   | 0   | 0   | 496   |
| 1990 | 0   | 0   | 0   | 18  | 3   | 140 | 153 | 158 | 97  | 0   | 0   | 0   | 569   |
| 1991 | 0   | 0   | 0   | 11  | 101 | 233 | 181 | 153 | 52  | 0   | 0   | 0   | 731   |
| 1992 | 0   | 0   | 0   | 0   | 34  | 75  | 54  | 52  | 16  | 2   | 0   | 0   | 233   |
| 1993 | 0   | 0   | 0   | 0   | 10  | 52  | 136 | 137 | 6   | 4   | 0   | 0   | 345   |
| 1994 | 0   | 0   | 0   | 6   | 33  | 150 | 104 | 77  | 69  | 0   | 0   | 0   | 439   |
| 1995 | 0   | 0   | 0   | 0   | 0   | 188 | 205 | 263 | 36  | 7   | 0   | 0   | 699   |
| 1996 | 0   | 0   | 0   | 0   | 22  | 120 | 87  | 73  | 37  | 0   | 0   | 0   | 339   |
| 1997 | 0   | 0   | 0   | 0   | 0   | 110 | 165 | 73  | 20  | 31  | 0   | 0   | 399   |
| 1998 | 0   | 0   | 0   | 0   | 67  | 86  | 152 | 133 | 89  | 0   | 0   | 0   | 527   |
| 1999 | 0   | 0   | 0   | 0   | 15  | 109 | 264 | 79  | 37  | 0   | 0   | 0   | 504   |
| 2000 | 0   | 0   | 0   | 0   | 40  | 77  | 167 | 142 | 47  | 4   | 0   | 0   | 477   |
| 2001 | 0   | 0   | 0   | 3   | 26  | 139 | 250 | 160 | 17  | 0   | 0   | 0   | 595   |
| 2002 | 0   | 0   | 0   | 12  | 27  | 165 | 257 | 97  | 78  | 0   | 0   | 0   | 636   |
| 2003 | 0   | 0   | 0   | 10  | 1   | 82  | 156 | 194 | 62  | 7   | 0   | 0   | 512   |
| 2004 | 0   | 0   | 0   | 7   | 9   | 67  | 125 | 60  | 81  | 1   | 0   | 0   | 350   |
| 2005 | 0   | 0   | 0   | 2   | 4   | 215 | 242 | 114 | 89  | 36  | 0   | 0   | 702   |
| 2006 | 0   | 0   | 0   | 0   | 77  | 137 | 297 | 151 | 22  | 14  | 0   | 0   | 698   |
| 2007 | 0   | 0   | 0   | 7   | 65  | 152 | 220 | 171 | 86  | 38  | 0   | 0   | 739   |
| 2008 | 0   | 0   | 0   | 0   | 8   | 112 | 201 | 126 | 50  | 6   | 0   | 0   | 503   |
| 2009 | 0   | 0   | 0   | 4   | 24  | 118 | 57  | 83  | 33  | 0   | 0   | 0   | 319   |
| 2010 | 0   | 0   | 0   | 3   | 69  | 91  | 245 | 254 | 10  | 11  | 0   | 0   | 683   |
| 2011 | 0   | 0   | 0   | 0   | 30  | 144 | 320 | 141 | 45  | 26  | 0   | 0   | 706   |
| 2012 | 0   | 0   | 18  | 0   | 68  | 203 | 381 | 160 | 58  | 0   | 0   | 0   | 888   |
| 2013 | 0   | 0   | 0   | 0   | 30  | 126 | 229 | 171 | 100 | 0   | 0   | 0   | 656   |
| 2014 | 0   | 0   | 0   | 0   | 39  | 131 | 110 | 180 | 31  | 0   | 0   | 0   | 491   |
| 2015 | 0   | 0   | 0   | 0   | 16  | 97  | 164 | 98  | 127 | 5   | 0   | 0   | 507   |

**SNOWFALL (inches) 2015 ROCHESTER (KRST)**

| YEAR           | JUL | AUG | SEP | OCT | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|-------|
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.9 | 1.7  | 16.0 | 18.2 | 5.8  | 3.1  | 15.6 | 0.0  | 0.0 | 61.3  |
| 1988-89        | 0.0 | 0.0 | 0.0 | T   | 10.8 | 4.8  | 4.7  | 9.3  | 21.2 | 0.1  | 0.2  | 0.0 | 51.1  |
| 1989-90        | 0.0 | T   | 0.0 | 2.6 | 10.5 | 6.6  | 5.9  | 9.3  | 0.5  | 0.2  | 0.0  | T   | 35.6  |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.8 | 1.6  | 20.8 | 9.9  | 6.1  | 5.9  | 0.8  | 0.0  | 0.0 | 45.9  |
| 1991-92        | 0.0 | 0.0 | 0.0 | 4.5 | 20.3 | 7.3  | 9.0  | 6.5  | 15.0 | T    | T    | 0.0 | 62.6  |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.8 | 4.3  | 11.7 | 15.7 | 10.8 | 9.8  | 9.3  | 0.0  | T   | 62.4  |
| 1993-94        | T   | 0.0 | 0.0 | T   | 7.7  | 6.0  | 21.8 | 15.3 | 2.9  | 3.2  | T    | 0.0 | 56.9  |
| 1994-95        | T   | 0.0 | 0.0 | 0.0 | 4.8  | 7.2  | 4.5  | 1.4  | 10.1 | 5.1  | T    | 0.0 | 33.1  |
| 1995-96        | 0.0 | 0.0 | T   | 2.3 | 4.0  | 11.8 | 30.2 | 1.9  | 9.3  | 2.1  | 0.0  | 0.0 | 61.6  |
| 1996-97        | 0.0 | 0.0 | 0.0 | T   | 17.5 | 19.6 | 14.4 | 11.8 | 18.8 | 2.9  | 0.1  | 0.0 | 85.1  |
| 1997-98        | 0.0 | 0.0 | 0.0 | T   | 3.9  | 4.3  | 17.1 | 7.0  | 10.1 | T    | 0.0  | 0.0 | 42.4  |
| 1998-99        | 0.0 | 0.0 | 0.0 | 0.0 | 2.0  | 5.3  | 29.4 | 5.4  | 6.7  | T    | 0.0  | 0.0 | 48.8  |
| 1999-00        | 0.0 | 0.0 | 0.0 | 0.5 | T    | 7.6  | 19.3 | 7.0  | 3.3  | 2.1  | T    | 0.0 | 39.8  |
| 2000-01        | 0.0 | 0.0 | 0.0 | T   | 5.4  | 35.3 | 7.3  | 7.4  | 10.2 | T    | 0.0  | T   | 65.6  |
| 2001-02        | 0.0 | 0.0 | 0.0 | T   | 0.4  | 2.2  | 10.0 | 5.5  | 7.1  | 6.9  | T    | 0.0 | 32.1  |
| 2002-03        | T   | 0.0 | 0.0 | 1.4 | 1.0  | 1.6  | 5.7  | 6.4  | 6.0  | 6.4  | 0.0  | 0.0 | 28.5  |
| 2003-04        | 0.0 | 0.0 | 0.0 | T   | 1.3  | 12.3 | 9.1  | 18.6 | 3.7  | 0.0  | 0.0  | T   | 45.0  |
| 2004-05        | 0.0 | 0.0 | 0.0 | 0.0 | 2.8  | 4.1  | 13.9 | 9.1  | 23.0 | 0.1  | T    | 0.0 | 53.0  |
| 2005-06        | 0.0 | 0.0 | 0.0 | 0.0 | 5.5  | 12.1 | 0.8  | 8.2  | 11.1 | 0.0  | 0.0  | 0.0 | 37.7  |
| 2006-07        | 0.0 | 0.0 | 0.0 | 0.1 | 10.6 | 0.8  | 10.5 | 20.1 | 12.3 | 7.4  | 0.0  | 0.0 | 61.8  |
| 2007-08        | 0.0 | T   | 0.0 | 0.0 | 0.9  | 13.1 | 13.0 | 7.3  | 9.0  | 0.8  | T    | 0.0 | 44.1  |
| 2008-09        | 0.0 | 0.0 | 0.0 | 0.1 | 4.4  | 28.6 | 9.8  | 8.0  | 1.2  | 0.6  | 0.0  | 0.0 | 52.7  |
| 2009-10        | T   | 0.0 | 0.0 | 7.9 | 0.2  | 26.3 | 4.2  | 13.9 | 0.0  | 0.0  | T    | 0.0 | 52.5  |
| 2010-11        | 0.0 | 0.0 | 0.0 | 0.0 | 1.3  | 41.3 | 9.8  | 9.3  | 4.6  | 4.2  | T    | 0.0 | 70.5  |
| 2011-12        | 0.0 | 0.0 | 0.0 | T   | 0.2  | 8.4  | 8.1  | 3.9  | T    | T    | 0.0  | 0.0 | 20.6  |
| 2012-13        | 0.0 | 0.0 | 0.0 | T   | 0.1  | 14.4 | 1.9  | 15.4 | 23.5 | 4.2  | 14.5 | 0.0 | 74.0  |
| 2013-          | 0.0 | 0.0 | 0.0 | T   | 1.3  | 13.1 |      |      |      |      |      |     |       |
| 2013-14        | 0.0 | 0.0 | 0.0 | T   | 1.3  | 13.1 | 14.8 | 18.6 | 6.2  | 6.5  | 0.0  | 0.0 | 60.5  |
| 2014-15        | 0.0 | 0.0 | 0.0 | T   | 9.2  | 8.2  | 10.0 | 10.6 | 10.9 | 1.5  | 0.0  | 0.0 | 50.4  |
| 2015-          | 0.0 | 0.0 | 0.0 | 0.2 | 2.3  | 13.2 |      |      |      |      |      |     |       |
| POR=<br>82 YRS | T   | T   | T   | 0.7 | 4.9  | 9.6  | 9.3  | 7.8  | 9.0  | 2.8  | 0.2  | T   | 44.3  |

WBAN : 14925

**REFERENCE NOTES :**

|   |   |
|---|---|
| <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><br/>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> |
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# 2015 ROCHESTER MINNESOTA (KRST)

Rochester, Minnesota, is in the Zumbro River Valley. The south branch of the Zumbro flows through Rochester. Within the city of Rochester three creeks flow into the south branch. Terrain around Rochester is rolling, and the elevation ranges from 1,000 to 1,300 feet above sea level.

The National Weather Service station is located 8 miles south of Rochester on a ridge 300 feet above the city elevation. Temperatures from radiation cooling on clear, calm nights can sometimes be much lower in the city.

The succession of high and low pressure systems over Rochester brings a variety of weather that is changeable and stimulating. The weather pattern is continental with four definite seasons. Winters are cold, but summers are pleasant.

The season-to-season temperature variation is quite large. The average temperature for a warm winter is 20 degrees and for a cold winter it is 12 degrees. The average temperature for a warm summer is 70 degrees and a cold summer is 67 degrees, which indicates that summer temperatures are not as variable as those during the winter. The average growing season is about 140 days.

Rochester lies near the northern edge of the influx of moisture from the Gulf of Mexico. Severe storms such as blizzards, freezing rain (glaze), tornadoes, wind, and hail storms do occur. During the five month growing season, May through September, the major crops of corn, soybeans, small grains, and hay are produced. During this period, the normal rainfall is over 18 inches, approximately 65 percent of the annual precipitation.

Snowfall averages above 45 inches per season. The snow season usually begins in November. About one year in ten the first 1 inch or more of snow will occur the latter part of October.

Rolling terrain and the thunderstorm probability make the south branch of the Zumbro River and its tributaries susceptible to flash flooding. Some flooding can occur with the spring snowmelt. In some instances the snowmelt is complicated with moderate spring rainfall.

# Station History

ROCHESTER, MN

| NAME                   | Begin Date | End Date   | Latitude | Longitude | Elevation Feet | Relocation | Platform          |
|------------------------|------------|------------|----------|-----------|----------------|------------|-------------------|
| ROCHESTER              | 1948-01-01 | 1960-09-25 | 44° 00'  | -92° 27'  | 1017           |            | AIRWAYS, COOP     |
| ROCHESTER INTL AP      | 2005-04-26 | Present    | 43° 54'  | -92° 29'  | 1304           |            | ASOS, COOP, WXSVC |
| ROCHESTER              | 1940-01-01 | 1948-01-01 | 44° 00'  | -92° 27'  | 1017           |            | AIRWAYS           |
| ROCHESTER MUNICIPAL AP | 1960-09-25 | 1961-01-01 | 43° 55'  | -92° 30'  | 1297           |            | COOP              |
| ROCHESTER MUNICIPAL AP | 1973-01-01 | 1996-06-01 | 43° 55'  | -92° 30'  | 1297           |            | COOP, WXSVC       |
| ROCHESTER INTL AP      | 2002-09-19 | 2005-04-26 | 43° 54'  | -92° 29'  | 1326           |            | ASOS, COOP, WXSVC |
| ROCHESTER INTL AP      | 1996-06-01 | 1996-08-01 | 43° 54'  | -92° 29'  | 1326           |            | ASOS, COOP, WXSVC |
| ROCHESTER INTL AP      | 1996-08-01 | 2002-09-19 | 43° 54'  | -92° 29'  | 1326           | 1 MI S     | ASOS, COOP, WXSVC |
| ROCHESTER MUNICIPAL AP | 1961-01-01 | 1973-01-01 | 43° 55'  | -92° 30'  | 1297           |            | AIRWAYS, COOP     |

# Element History

| Element   | Begin Date | End Date   | Frequency           | Time Of Observation | Equipment * | Equipment * Modifications | Equipment Exposure |
|-----------|------------|------------|---------------------|---------------------|-------------|---------------------------|--------------------|
| TEMPATOBS | 1999-11-01 | 2002-09-19 | TWICE DAILY - AM/PM | UNKN                | FRONTIER    |                           |                    |
| WIND      | 2002-09-19 | 2005-04-26 | HOURLY              | UNKN                | ANEMCUP     |                           |                    |
| TEMP      | 2007-05-30 | 2010-09-15 | DAILY               | 2400                | ATEMP       |                           |                    |
| TEMP      | 2010-09-15 | Present    | DAILY               | 2400                | ATEMP       |                           |                    |
| PRECIP    | 1960-09-25 | 1978-01-19 | DAILY               | UNKN                |             |                           |                    |
| TEMP      | 1996-06-01 | 1999-11-01 | DAILY               | 2400                | MXMN        |                           |                    |
| PRECIP    | 2002-09-19 | 2005-04-26 | HOURLY              | 2400                | AHTB        | RCRD;HTD                  |                    |
| TEMP      | 2005-04-26 | 2007-05-30 | DAILY               | 2400                | ATEMP       |                           |                    |
| WIND      | 2005-04-26 | 2007-05-30 | HOURLY              | UNKN                | ANEMCUP     |                           |                    |
| TEMP      | 1988-04-01 | 1989-08-30 | DAILY               | 2400                | MXMN        |                           |                    |
| TEMP      | 1989-08-30 | 1992-06-01 | DAILY               | 2400                | MXMN        |                           |                    |
| TEMPATOBS | 1996-06-01 | 1999-11-01 | TWICE DAILY - AM/PM | UNKN                | FRONTIER    |                           |                    |
| PRECIP    | 2010-09-15 | Present    | DAILY               | 2400                | PCPNX       | SHLD                      |                    |
| TEMP      | 1992-06-01 | 1996-06-01 | DAILY               | 2400                | MXMN        |                           |                    |
| PRECIP    | 1996-06-01 | 1999-11-01 | HOURLY              | 2400                | UNIV        |                           |                    |
| PRECIP    | 2007-05-30 | 2010-09-15 | HOURLY              | 2400                | AWPAG       | RCRD;HTD                  |                    |
| TEMP      | 1960-09-25 | 1978-01-19 | DAILY               | UNKN                | MXMN        |                           |                    |
| PRECIP    | 1978-01-19 | 1988-04-01 | DAILY               | UNKN                | SRG         |                           |                    |
| PRECIP    | 1988-04-01 | 1989-08-30 | DAILY               | 2400                | SRG         |                           |                    |
| PRECIP    | 1989-08-30 | 1992-06-01 | HOURLY              | 2400                | UNIV        | RCRD                      |                    |
| WIND      | 1996-06-01 | 1999-11-01 | HOURLY              | UNKN                | ANEMCUP     |                           |                    |
| PRECIP    | 2005-04-26 | 2007-05-30 | DAILY               | 2400                | PCPNX       |                           |                    |
| WIND      | 2007-05-30 | 2010-09-15 | HOURLY              | UNKN                | ANEMSONIC   |                           |                    |
| WIND      | 2010-09-15 | Present    | HOURLY              | UNKN                | ANEMSONIC   |                           |                    |
| TEMPATOBS | 1960-09-25 | 1978-01-19 | TWICE DAILY - AM/PM | UNKN                | FRONTIER    |                           |                    |
| PRECIP    | 1992-06-01 | 1996-06-01 | HOURLY              | 2400                | UNIV        | RCRD                      |                    |
| WIND      | 1999-11-01 | 2002-09-19 | HOURLY              | UNKN                | ANEMCUP     |                           |                    |
| PRECIP    | 2005-04-26 | 2007-05-30 | HOURLY              | 2400                | AWPAG       | RCRD;HTD                  |                    |
| TEMPATOBS | 1978-01-19 | 1988-04-01 | TWICE DAILY - AM/PM | UNKN                | FRONTIER    |                           |                    |
| TEMPATOBS | 1992-06-01 | 1996-06-01 | TWICE DAILY - AM/PM | UNKN                | FRONTIER    |                           |                    |
| PRECIP    | 1992-06-01 | 1996-06-01 | DAILY               | 2400                | SRG         |                           |                    |
| PRECIP    | 1996-06-01 | 1999-11-01 | DAILY               | 2400                | SRG         |                           |                    |
| TEMP      | 1999-11-01 | 2002-09-19 | DAILY               | 2400                | HYGR        |                           |                    |
| PRECIP    | 2002-09-19 | 2005-04-26 | DAILY               | 2400                | PCPNX       |                           |                    |
| TEMP      | 1978-01-19 | 1988-04-01 | DAILY               | UNKN                | MXMN        |                           |                    |
| TEMPATOBS | 1988-04-01 | 1989-08-30 | TWICE DAILY - AM/PM | UNKN                | FRONTIER    |                           |                    |
| PRECIP    | 1989-08-30 | 1992-06-01 | DAILY               | 2400                | SRG         |                           |                    |
| PRECIP    | 1999-11-01 | 2002-09-19 | HOURLY              | 2400                | TB          | RCRD                      |                    |
| PRECIP    | 1999-11-01 | 2002-09-19 | DAILY               | 2400                | TB          | RCRD                      |                    |
| TEMP      | 2002-09-19 | 2005-04-26 | DAILY               | 2400                | ATEMP       |                           |                    |
| PRECIP    | 2007-05-30 | 2010-09-15 | DAILY               | 2400                | PCPNX       |                           |                    |
| PRECIP    | 2010-09-15 | Present    | HOURLY              | 2400                | AWPAG       | SHLD;RCRD;HTD             |                    |

\* 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>

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