

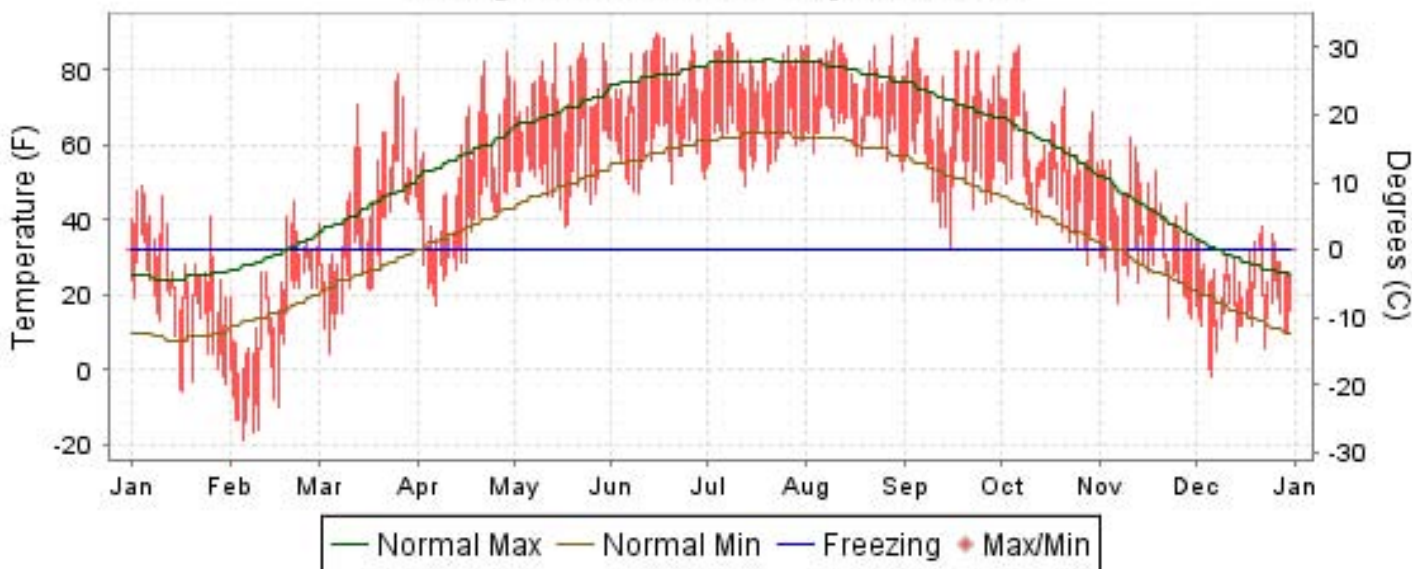


# 2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

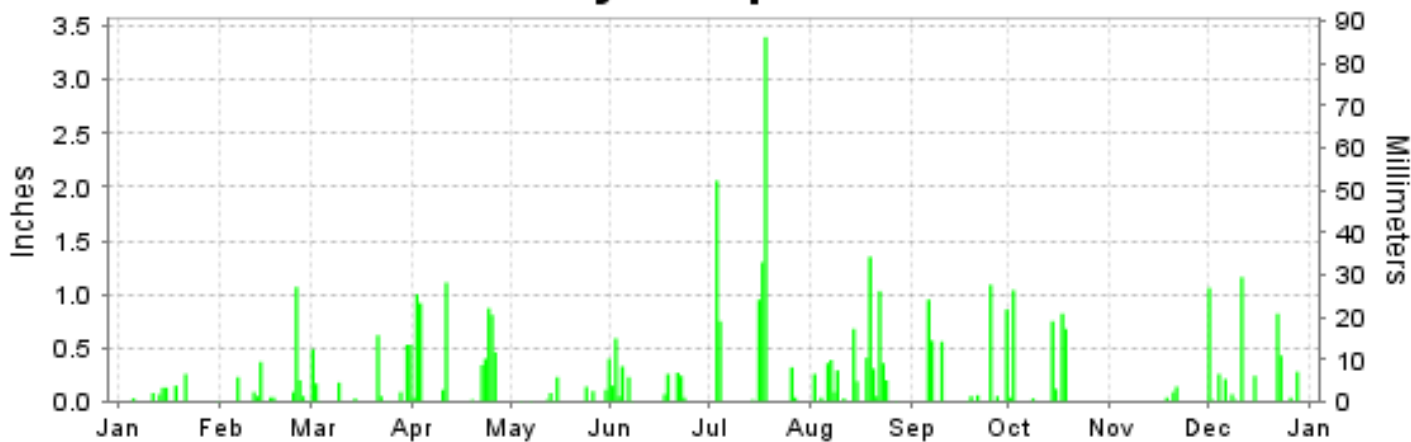
ISSN 0198-2079

## DUBUQUE, IOWA (KDBQ)

### 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 2007

## DUBUQUE (KDBQ)

LATITUDE: 42 ° 23'N      LONGITUDE: -90 ° 42'W      ELEVATION (FT): GRND: 1041    BARO: 1072      TIME ZONE: CENTRAL (UTC -6)      WBAN: 94908

| ELEMENT                  |                             | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |   |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|---|
| TEMPERATURE °F           | MEAN DAILY MAXIMUM          | 30.1  | 20.6  | 48.7  | 55.8  | 75.4  | 79.3  | 81.8  | 80.7  | 76.0  | 64.1  | 44.9  | 26.9   | 57.0      |   |
|                          | HIGHEST DAILY MAXIMUM       | 49    | 45    | 79    | 85    | 87    | 90    | 90    | 89    | 88    | 86    | 62    | 38     | 90        |   |
|                          | DATE OF OCCURRENCE          | 04    | 21    | 26    | 29    | 14+   | 15    | 08+   | 28    | 05+   | 07    | 11    | 22     | JUL 08+   |   |
|                          | MEAN DAILY MINIMUM          | 14.5  | 5.5   | 31.0  | 35.7  | 51.9  | 58.5  | 60.3  | 63.9  | 52.3  | 46.1  | 27.4  | 14.3   | 38.5      |   |
|                          | LOWEST DAILY MINIMUM        | -6    | -19   | 4     | 17    | 38    | 47    | 49    | 53    | 32    | 28    | 14    | -2     | -19       |   |
|                          | DATE OF OCCURRENCE          | 17    | 05    | 04    | 07    | 17    | 09    | 13    | 31    | 15    | 28    | 30+   | 06     | FEB 05    |   |
|                          | AVERAGE DRY BULB            | 22.3  | 13.1  | 39.9  | 45.8  | 63.7  | 68.9  | 71.1  | 72.3  | 64.2  | 55.1  | 36.2  | 20.6   | 47.8      |   |
|                          | MEAN WET BULB               | 20.9  |       | 37.1  | 39.7  | 55.4  | 62.5  | 64.9  | 67.6  | 58.1  | 50.7  | 32.4  | 20.4   |           |   |
|                          | MEAN DEW POINT              | 16.7  |       | 32.4  | 32.6  | 48.4  | 57.8  | 60.6  | 65.0  | 53.4  | 46.2  | 25.6  | 17.5   |           |   |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | MAXIMUM >= 90°              | 0     | 0     | 0     | 0     | 0     | 1     | 2     | 0     | 0     | 0     | 0     | 0      | 0         | 3 |
| MAXIMUM <= 32°           | 19                          | 21    | 6     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 4     | 24    | 75     |           |   |
| MINIMUM <= 32°           | 28                          | 28    | 17    | 14    | 0     | 0     | 0     | 0     | 1     | 3     | 23    | 30    | 144    |           |   |
| MINIMUM <= 0°            | 6                           | 12    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 20     |           |   |
| H/C                      | HEATING DEGREE DAYS         | 1313  | 1446  | 776   | 573   | 91    | 20    | 4     | 3     | 110   | 333   | 858   | 1370   | 6897      |   |
|                          | COOLING DEGREE DAYS         | 0     | 0     | 5     | 4     | 55    | 146   | 201   | 234   | 91    | 34    | 0     | 0      | 770       |   |
| RH                       | MEAN (PERCENT)              | 78    | 73    | 75    | 65    | 60    | 69    | 71    | 79    | 70    | 73    | 67    | 84     | 72        |   |
|                          | HOUR 00 LST                 | 81    | 75    | 78    | 71    | 68    | 80    | 84    | 87    | 78    | 79    | 71    | 87     | 78        |   |
|                          | HOUR 06 LST                 | 83    | 76    | 82    | 78    | 74    | 80    | 85    | 89    | 85    | 84    | 77    | 85     | 82        |   |
|                          | HOUR 12 LST                 | 72    | 68    | 67    | 55    | 49    | 56    | 57    | 68    | 56    | 62    | 56    | 81     | 62        |   |
|                          | HOUR 18 LST                 | 77    | 71    | 72    | 56    | 50    | 57    | 57    | 74    | 62    | 70    | 64    | 85     | 66        |   |
| S                        | PERCENT POSSIBLE SUNSHINE   |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| W/O                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | HEAVY FOG(VISBY <= 1/4 MI)  | 2     | 3     | 7     | 1     | 1     | 2     | 0     | 1     | 2     | 2     | 3     | 11     | 35        |   |
|                          | THUNDERSTORMS               | 0     | 0     | 2     | 0     | 1     | 4     | 3     | 8     | 4     | 2     | 0     | 0      | 24        |   |
| CLOUDNESS                | SUNRISE-SUNSET: (OKTAS)     |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | SATELLITE (> 12,000 FT.)    |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | MIDNIGHT-MIDNIGHT: (OKTAS)  |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| SATELLITE (> 12,000 FT.) |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| NUMBER OF DAYS WITH:     |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| CLEAR                    |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| PARTLY CLOUDY            |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| CLOUDY                   |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| PR                       | MEAN STATION PRESS. (IN.)   | 28.94 | 28.87 | 28.89 | 28.80 | 28.90 | 28.92 | 28.85 | 28.84 | 28.90 | 28.82 | 28.90 | 28.87  | 28.88     |   |
|                          | MEAN SEA-LEVEL PRESS. (IN.) | 30.15 | 30.09 | 30.07 | 29.97 | 30.06 | 30.07 | 29.99 | 29.97 | 30.05 | 29.98 | 30.09 | 30.08  | 30.05     |   |
| WINDS                    | RESULTANT SPEED (MPH)       | 5.3   | 3.2   | 1.5   | 2.8   | 3.5   | 2.3   | 2.0   | 1.4   | 3.7   | 3.1   | 3.5   | 1.9    | 1.8       |   |
|                          | RES. DIR. (TENS OF DEGS.)   | 27    | 30    | 19    | 34    | 17    | 18    | 24    | 17    | 21    | 23    | 28    | 29     | 25        |   |
|                          | MEAN SPEED (MPH)            | 12.3  | 12.0  | 11.4  | 12.0  | 10.9  | 7.8   | 6.6   | 6.3   | 8.4   | 10.0  | 10.9  | 9.8    | 9.9       |   |
|                          | PREVAIL.DIR.(TENS OF DEGS.) | 20    | 29    | 17    | 32    | 18    | 20    | 21    | 18    | 20    | 19    | 32    | 19     | 20        |   |
|                          | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | SPEED (MPH)                 | 32    | 33    | 36    | 36    | 38    | 33    | 30    | 30    | 41    | 35    | 32    | 39     | 41        |   |
|                          | DIR. (TENS OF DEGS.)        | 18    | 09    | 27    | 30    | 23    | 20    | 23    | 01    | 25    | 21    | 29    | 26     | 25        |   |
|                          | DATE OF OCCURRENCE          | 10    | 24    | 02    | 04    | 24    | 07    | 16    | 22    | 30    | 18    | 14    | 23     | SEP 30    |   |
|                          | MAXIMUM 5-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | SPEED (MPH)                 | 41    | 45    | 49    | 41    | 47    | 41    | 44    | 46    | 53    | 47    | 44    | 49     | 53        |   |
| DIR. (TENS OF DEGS.)     | 18                          | 09    | 24    | 17    | 23    | 20    | 08    | 31    | 25    | 23    | 29    | 26    | 25     |           |   |
| DATE OF OCCURRENCE       | 10                          | 24    | 31    | 22    | 24    | 07    | 19    | 22    | 30    | 02    | 14    | 23    | SEP 30 |           |   |
| PRECIPITATION            | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | TOTAL (IN.)                 | 0.86  | 2.24  | 2.71  | 6.08  | 1.11  | 2.24  | 8.84  | 6.06  | 4.20  | 3.48  | 0.27  | 4.61   | 42.70     |   |
|                          | GREATEST 24-HOUR (IN.)      | 0.26  | 1.07  | 0.65  | 1.92  | 0.51  | 0.73  | 3.78  | 1.66  | 1.52  | 1.49  | 0.14  | 1.16   | 3.78      |   |
|                          | DATE OF OCCURRENCE          | 21    | 24    | 21-22 | 02-03 | 30-31 | 01-02 | 17-18 | 19-20 | 06-07 | 17-18 | 21    | 11     | JUL 17-18 |   |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | PRECIPITATION 0.01          | 8     | 11    | 11    | 11    | 10    | 11    | 8     | 18    | 9     | 7     | 3     | 12     | 119       |   |
| PRECIPITATION 0.10       | 4                           | 4     | 6     | 9     | 5     | 7     | 6     | 12    | 5     | 5     | 1     | 8     | 72     |           |   |
| PRECIPITATION 1.00       | 0                           | 1     | 0     | 2     | 0     | 0     | 3     | 2     | 1     | 1     | 0     | 2     | 12     |           |   |
| SNOWFALL                 | SNOW,ICE PELLETS,HAIL       |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
|                          | TOTAL (IN.)                 | 8.8   | 20.7  | 2.9   | 6.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.2   | 20.6   | 61.8      |   |
|                          | GREATEST 24-HOUR (IN.)      | 3.2   | 6.5   | 2.2   | 6.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.2   | 5.0    | 6.6       |   |
|                          | DATE OF OCCURRENCE          | 21    | 24    | 02    | 11    |       |       |       |       |       |       | 21    | 23     | APR 11    |   |
|                          | MAXIMUM SNOW DEPTH (IN.)    | 6     | 10    | 6     | 4     | 0     | 0     | 0     | 0     | 0     | 0     | 2     | 12     | 12        |   |
|                          | DATE OF OCCURRENCE          | 24+   | 13    | 03    | 12    |       |       |       |       |       |       | 22    | 29     | DEC 29    |   |
| NUMBER OF DAYS WITH:     |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |   |
| SNOWFALL >= 1.0          | 4                           | 7     | 1     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 8     | 22     |           |   |

# NORMALS, MEANS, AND EXTREMES DUBUQUE (KDBQ)

LATITUDE: 42 ° 23'N      LONGITUDE: -90 ° 42'W      ELEVATION (FT): GRND: 1041    BARO: 1072      TIME ZONE: CENTRAL (UTC -6)      WBAN: 94908

| ELEMENT        |  | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | YEAR     |
|----------------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM                               | 30   | 24.8  | 30.8  | 43.3  | 57.4  | 69.3  | 78.6  | 82.1  | 79.8  | 71.9  | 60.3  | 43.6  | 29.7  | 56.0     |
|                | MEAN DAILY MAXIMUM                                 | 55   | 25.6  | 30.8  | 42.3  | 57.9  | 69.0  | 78.2  | 82.1  | 80.0  | 72.2  | 60.6  | 44.3  | 30.4  | 56.1     |
|                | HIGHEST DAILY MAXIMUM                              | 55   | 60    | 66    | 85    | 93    | 91    | 100   | 101   | 100   | 97    | 90    | 75    | 67    | 101      |
|                | YEAR OF OCCURRENCE                                 |      | 2002  | 2000  | 1986  | 1980  | 2006  | 1988  | 1988  | 1988  | 1955  | 1997  | 2000  | 1998  | JUL 1988 |
|                | MEAN OF EXTREME MAXS.                              | 55   | 45.0  | 49.2  | 66.7  | 78.8  | 84.7  | 90.1  | 92.3  | 90.9  | 87.1  | 79.4  | 64.5  | 50.2  | 73.2     |
|                | NORMAL DAILY MINIMUM                               | 30   | 9.2   | 15.4  | 26.2  | 37.5  | 48.8  | 57.9  | 62.4  | 60.2  | 51.7  | 40.5  | 27.8  | 15.2  | 37.7     |
|                | MEAN DAILY MINIMUM                                 | 55   | 10.0  | 14.6  | 24.9  | 37.4  | 48.0  | 57.5  | 61.9  | 60.1  | 51.2  | 40.5  | 27.7  | 15.7  | 37.5     |
|                | LOWEST DAILY MINIMUM                               | 55   | -28   | -27   | -20   | 11    | 21    | 36    | 44    | 40    | 28    | 13    | -17   | -25   | -28      |
|                | YEAR OF OCCURRENCE                                 |      | 1970  | 1996  | 1962  | 1973  | 2005  | 1972  | 1984  | 1986  | 1984  | 1952  | 1977  | 1983  | JAN 1970 |
|                | MEAN OF EXTREME MINS.                              | 55   | -13.0 | -7.3  | 5.5   | 22.1  | 33.2  | 44.7  | 50.5  | 48.6  | 35.7  | 24.8  | 9.2   | -7.0  | 20.6     |
|                | NORMAL DRY BULB                                    | 30   | 17.0  | 23.1  | 34.8  | 47.5  | 59.1  | 68.3  | 72.3  | 70.0  | 61.8  | 50.4  | 35.7  | 22.5  | 46.9     |
|                | MEAN DRY BULB                                      | 55   | 17.8  | 22.7  | 33.6  | 47.6  | 58.5  | 68.0  | 72.0  | 70.1  | 61.8  | 50.6  | 36.0  | 23.1  | 46.8     |
|                | MEAN WET BULB                                      | 24   | 18.5  | 22.8  | 31.8  | 42.2  | 53.0  | 62.1  | 66.3  | 65.0  | 56.7  | 45.2  | 33.0  | 22.3  | 43.2     |
|                | MEAN DEW POINT                                     | 24   | 14.7  | 18.3  | 26.5  | 36.2  | 48.2  | 58.3  | 63.3  | 62.1  | 53.2  | 40.7  | 29.1  | 19.0  | 39.1     |
|                | NORMAL NO. DAYS WITH:<br>MAXIMUM >= 90             | 30   | 0.0   | 0.0   | 0.0   | *     | *     | 1.5   | 3.9   | 2.2   | 0.6   | *     | 0.0   | 0.0   | 8.2      |
|                | MAXIMUM <= 32                                      | 30   | 21.9  | 15.2  | 5.8   | 0.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | *     | 5.3   | 17.3  | 66.0     |
| MINIMUM <= 32  | 30   | 30.5 | 26.2  | 22.9  | 8.6   | 0.5   | 0.0   | 0.0   | 0.0   | 0.5   | 6.1   | 20.9  | 29.5  | 145.7 |          |
| MINIMUM <= 0   | 30   | 9.1  | 4.9   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 5.0   | 19.9  |          |
| H/C            | NORMAL HEATING DEG. DAYS                           | 30   | 1492  | 1189  | 949   | 536   | 226   | 40    | 8     | 21    | 158   | 465   | 879   | 1307  | 7270     |
|                | NORMAL COOLING DEG. DAYS                           | 30   | 0     | 0     | 0     | 6     | 37    | 138   | 233   | 175   | 61    | 6     | 0     | 0     | 656      |
| RH             | NORMAL (PERCENT)                                   | 30   |       |       |       |       |       |       |       |       |       |       |       |       |          |
|                | hour 00 LST  | 30   |       |       |       |       |       |       |       |       |       |       |       |       |          |
|                | hour 06 LST  | 30   |       |       |       |       |       |       |       |       |       |       |       |       | 82       |
|                | hour 12 LST  | 30   |       |       |       |       |       |       |       |       |       |       |       |       | 63       |
|                | hour 18 LST  | 30   |       |       |       |       |       |       |       |       |       |       |       |       |          |
| S              | PERCENT POSSIBLE SUNSHINE                          |      |       |       |       |       |       |       |       |       |       |       |       |       |          |
| W/O            | MEAN NO. DAYS WITH:<br>HEAVY FOG (VISBY <= 1/4 MI) | 27   | 4.3   | 3.5   | 3.0   | 2.0   | 2.1   | 1.4   | 2.5   | 3.5   | 2.2   | 2.4   | 3.2   | 5.2   | 35.3     |
|                | THUNDERSTORMS                                      | 39   | 0.1   | 0.1   | 1.3   | 2.6   | 4.4   | 4.9   | 5.1   | 4.7   | 2.8   | 1.9   | 0.7   | 0.1   | 28.7     |
| CLOUDNESS      | MEAN:<br>SUNRISE-SUNSET (OKTAS)                    |      |       |       |       |       |       |       |       |       |       |       |       |       |          |
|                | MIDNIGHT-MIDNIGHT (OKTAS)                          |      |       |       |       |       |       |       |       |       |       |       |       |       |          |
|                | MEAN NO. DAYS WITH:<br>CLEAR                       |      |       |       | 1.0   |       | 2.0   |       |       |       |       |       |       |       |          |
|                | PARTLY CLOUDY<br>CLOUDY                            | 1    | 1.0   |       | 2.0   |       |       |       |       |       |       |       |       |       |          |
| PR             | MEAN STATION PRESSURE (IN)                         | 24   | 28.89 | 28.91 | 28.86 | 28.80 | 28.82 | 28.83 | 28.86 | 28.90 | 28.89 | 28.89 | 28.87 | 28.90 | 28.87    |
|                | MEAN SEA-LEVEL PRES. (IN)                          | 24   | 30.10 | 30.11 | 30.04 | 29.96 | 29.97 | 29.97 | 29.99 | 30.04 | 30.04 | 30.05 | 30.06 | 30.10 | 30.04    |
| WINDS          | MEAN SPEED (MPH)                                   | 24   | 11.6  | 11.6  | 12.3  | 12.5  | 10.9  | 9.4   | 8.2   | 8.0   | 9.0   | 10.5  | 11.5  | 11.1  | 10.6     |
|                | PREVAIL.DIR (TENS OF DEGS)                         | 14   | 30    | 20    | 33    | 19    | 19    | 20    | 21    | 20    | 20    | 20    | 20    | 20    | 20       |
|                | MAXIMUM 2-MINUTE:<br>SPEED (MPH)                   | 12   | 37    | 45    | 46    | 47    | 46    | 55    | 46    | 66    | 41    | 43    | 49    | 41    | 66       |
|                | DIR. (TENS OF DEGS)                                |      | 28    | 26    | 28    | 25    | 19    | 25    | 24    | 32    | 25    | 28    | 23    | 24    | 32       |
|                | YEAR OF OCCURRENCE                                 |      | 1996  | 2001  | 2002  | 2001  | 2002  | 2005  | 2006  | 1998  | 2007  | 1996  | 1998  | 2001  | AUG 1998 |
|                | MAXIMUM 5-SECOND<br>SPEED (MPH)                    | 12   | 44    | 54    | 58    | 69    | 54    | 67    | 53    | 78    | 60    | 52    | 63    | 54    | 78       |
|                | DIR. (TENS OF DEGS)                                |      | 28    | 26    | 28    | 25    | 19    | 18    | 25    | 31    | 22    | 29    | 23    | 30    | 31       |
|                | YEAR OF OCCURRENCE                                 |      | 1996  | 2001  | 2002  | 2001  | 2002  | 2005  | 2006  | 1998  | 1997  | 1996  | 1998  | 2004  | AUG 1998 |
| PRECIPITATION  | NORMAL (IN)  | 30   | 1.28  | 1.42  | 2.57  | 3.49  | 4.12  | 4.08  | 3.73  | 4.59  | 3.56  | 2.50  | 2.49  | 1.69  | 35.52    |
|                | MAXIMUM MONTHLY (IN)                               | 55   | 6.04  | 3.61  | 6.50  | 7.69  | 9.43  | 10.49 | 12.23 | 9.90  | 15.46 | 8.58  | 10.63 | 4.61  | 15.46    |
|                | YEAR OF OCCURRENCE                                 |      | 1960  | 1953  | 1959  | 1964  | 1962  | 1969  | 1961  | 1987  | 1965  | 1967  | 1961  | 2007  | SEP 1965 |
|                | MINIMUM MONTHLY (IN)                               | 55   | 0.31  | 0.07  | 0.36  | 0.81  | 0.69  | 0.70  | 0.87  | 0.08  | 0.07  | 0.00  | 0.17  | 0.08  | 0.00     |
|                | YEAR OF OCCURRENCE                                 |      | 1964  | 1995  | 1958  | 1985  | 1992  | 1988  | 1991  | 1969  | 1979  | 1996  | 2002  | 1995  | OCT 1996 |
|                | MAXIMUM IN 24 HOURS (IN)                           | 55   | 3.75  | 2.24  | 2.57  | 2.65  | 4.60  | 5.90  | 6.28  | 8.95  | 8.85  | 2.58  | 5.09  | 2.31  | 8.95     |
|                | YEAR OF OCCURRENCE                                 |      | 1960  | 1953  | 1998  | 1964  | 1962  | 2002  | 1961  | 2002  | 1967  | 1959  | 1961  | 1971  | AUG 2002 |
|                | NORMAL NO. DAYS WITH:<br>PRECIPITATION >= 0.01     | 30   | 9.7   | 8.0   | 10.5  | 11.7  | 12.2  | 11.0  | 9.6   | 9.6   | 8.9   | 9.3   | 10.1  | 10.0  | 120.6    |
|                | PRECIPITATION >= 1.00                              | 30   | 0.2   | 0.1   | 0.3   | 0.7   | 0.8   | 1.0   | 0.7   | 1.2   | 0.9   | 0.5   | 0.4   | 0.2   | 7.0      |
| SNOWFALL       | NORMAL (IN)  | 30   | 10.6  | 8.7   | 7.6   | 3.2   | 0.*   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 4.5   | 10.5  | 45.2     |
|                | MAXIMUM MONTHLY (IN)                               | 54   | 29.3  | 25.1  | 30.2  | 19.8  | 3.1   | T     | 0.0   | 0.0   | T     | 1.5   | 13.9  | 37.6  | 37.6     |
|                | YEAR OF OCCURRENCE                                 |      | 1979  | 1975  | 1959  | 1973  | 1966  | 1993  |       |       | 1986  | 1976  | 1986  | 2000  | DEC 2000 |
|                | MAXIMUM IN 24 HOURS (IN)                           | 54   | 11.8  | 11.9  | 15.5  | 14.6  | 3.1   | T     | 0.0   | 0.0   | T     | 1.5   | 10.4  | 15.0  | 15.5     |
|                | YEAR OF OCCURRENCE                                 |      | 1971  | 1962  | 1959  | 1973  | 1966  | 1993  |       |       | 1986  | 1976  | 1992  | 1990  | MAR 1959 |
|                | MAXIMUM SNOW DEPTH (IN)                            | 44   | 25    | 22    | 23    | 17    | 3     | 0     | 0     | 0     | 0     | 1     | 9     | 20    | 25       |
|                | YEAR OF OCCURRENCE                                 |      | 1979  | 1962  | 1962  | 1973  | 1994  |       |       |       |       | 1962  | 1986  | 2000  | JAN 1979 |
|                | NORMAL NO. DAYS WITH:<br>SNOWFALL >= 1.0           | 30   | 3.4   | 2.7   | 2.2   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 1.4   | 3.0   | 13.7     |

**PRECIPITATION (inches) 2007 DUBUQUE (KDBQ)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP   | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|-------|------|------|------|--------|
| 1978           | 0.81 | 0.66 | 1.30 | 4.14 | 5.50 | 2.50 | 3.51 | 1.10 | 4.51  | 1.68 | 2.93 | 2.36 | 31.00  |
| 1979           | 2.61 | 1.12 | 2.54 | 2.37 | 2.18 | 4.33 | 6.72 | 7.47 | 0.07  | 2.80 | 1.92 | 1.34 | 35.47  |
| 1980           | 1.80 | 1.23 | 1.12 | 1.78 | 4.31 | 5.62 | 1.80 | 9.11 | 6.48  | 2.77 | 0.99 | 1.61 | 38.62  |
| 1981           | 0.34 | 2.38 | 0.41 | 5.72 | 1.05 | 6.67 | 1.69 | 9.65 |       |      |      |      |        |
| 1982           |      |      |      |      |      |      |      |      |       |      | 5.30 | 4.14 |        |
| 1983           | 0.70 | 2.17 | 2.91 | 3.39 | 6.42 | 1.56 | 3.38 | 2.23 | 3.54  | 1.78 | 3.88 | 2.44 | 34.40  |
| 1984           | 0.81 | 1.05 | 1.68 | 4.08 | 4.20 | 6.19 | 2.31 | 1.37 | 2.22  | 6.55 | 1.77 | 2.77 | 35.00  |
| 1985           | 1.17 | 2.51 | 4.35 | 0.81 | 4.51 | 1.09 | 2.19 | 3.44 | 4.89  | 4.94 | 4.22 | 2.20 | 36.32  |
| 1986           | 0.82 | 2.26 | 1.96 | 2.74 | 5.92 | 5.72 | 2.75 | 4.29 | 13.06 | 3.60 | 1.61 | 0.68 | 45.41  |
| 1987           | 0.79 | 0.80 | 2.11 | 1.53 | 5.19 | 2.05 | 5.55 | 9.90 | 3.31  | 1.03 | 3.41 | 3.16 | 38.83  |
| 1988           | 1.32 | 0.74 | 2.31 | 2.21 | 0.97 | 0.70 | 1.97 | 3.73 | 2.72  | 1.73 | 2.69 | 1.48 | 22.57  |
| 1989           | 0.90 | 0.45 | 1.85 | 2.32 | 2.25 | 1.85 | 3.01 | 4.35 | 2.38  | 2.18 | 0.81 | 0.39 | 22.74  |
| 1990           | 1.27 | 1.06 | 4.63 | 2.27 | 4.91 | 5.68 | 4.28 | 8.01 | 0.57  | 1.35 | 2.66 | 2.86 | 39.55  |
| 1991           | 1.16 | 0.45 | 5.81 | 3.88 | 4.24 | 3.34 | 0.87 | 3.90 | 3.76  | 3.86 | 4.28 | 1.59 | 37.14  |
| 1992           | 1.49 | 1.87 | 1.55 | 3.82 | 0.69 | 1.02 | 7.52 | 1.63 | 4.57  | 1.09 | 6.84 | 2.12 | 34.21  |
| 1993           | 1.37 | 0.99 | 3.10 | 4.61 | 5.40 | 8.04 | 8.50 | 8.05 | 4.50  | 1.64 | 1.03 | 0.98 | 48.21  |
| 1994           | 1.37 | 2.42 | 0.48 | 3.10 | 1.10 | 5.77 | 6.70 | 6.67 | 4.51  | 0.53 | 2.71 | 1.73 | 37.09  |
| 1995           | 1.00 | 0.07 | 2.32 | 5.14 | 5.33 | 2.90 | 2.48 | 0.29 | 1.40  | 2.73 | 2.40 | 0.08 | 26.14  |
| 1996           | 2.65 | 0.35 | 1.05 | 2.09 | 7.56 | 5.24 | 2.37 | 1.98 | 1.97  | 4.14 | 1.68 | .77  | 31.85  |
| 1997           | 0.86 | 1.86 | 1.20 | 3.12 | 2.93 | 5.35 | 2.75 | 3.41 | 4.11  | 0.95 | 0.77 | 0.90 | 28.21  |
| 1998           | 1.05 | 2.93 | 5.43 | 5.10 | 3.27 | 7.84 | 1.61 | 6.38 | 3.75  | 4.48 | 1.31 | 0.14 | 43.29  |
| 1999           | 2.18 | 0.94 | 0.91 | 6.65 | 4.41 | 4.98 | 7.65 | 2.87 | 1.70  | 1.33 | 0.57 | 0.86 | 35.05  |
| 2000           | 1.39 | 1.44 | 0.94 | 3.35 | 5.55 | 8.01 | 2.52 | 2.36 | 3.43  | 1.00 | 1.26 | 2.15 | 33.40  |
| 2001           | 1.36 | 3.12 | 1.01 | 2.80 | 5.69 | 3.66 | 1.16 | 3.81 | 5.59  | 3.40 | 1.89 | 1.31 | 34.80  |
| 2002           | 0.37 | 1.09 | 1.55 | 4.00 | 4.40 | 8.42 | 4.12 | 9.71 | 3.47  | 3.49 | 0.17 | 0.73 | 41.52  |
| 2003           | 0.39 | 0.42 | 0.90 | 2.84 | 4.01 | 2.75 | 4.46 | 0.25 | 3.74  | 1.33 | 5.85 | 1.81 | 28.75  |
| 2004           | 0.39 | 1.29 | 4.79 | 1.28 | 7.27 | 3.30 | 1.49 | 3.20 | 0.64  | 4.40 | 1.99 | 1.09 | 31.13  |
| 2005           | 2.01 | 1.34 | 0.90 | 2.26 | 2.72 | 3.08 | 1.43 | 5.07 | 1.91  | 0.48 | 2.63 | 1.65 | 25.48  |
| 2006           | 1.32 | 0.35 | 3.59 | 6.60 | 2.68 | 3.78 | 6.78 | 1.97 | 4.61  | 2.23 | 2.59 | 1.62 | 38.12  |
| 2007           | 0.86 | 2.24 | 2.71 | 6.08 | 1.11 | 2.24 | 8.84 | 6.06 | 4.20  | 3.48 | 0.27 | 4.61 | 42.70  |
| POR=<br>55 YRS | 1.29 | 1.35 | 2.64 | 3.87 | 4.22 | 4.22 | 4.08 | 4.44 | 3.86  | 2.75 | 2.48 | 1.80 | 37.00  |

WBAN : 94908

**AVERAGE TEMPERATURE (°F) 2007 DUBUQUE (KDBQ)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1978           | 7.7  | 11.5 | 28.6 | 47.5 | 57.8 | 67.3 | 71.4 | 71.0 | 66.2 | 48.6 | 35.8 | 19.2 | 44.4   |
| 1979           | 4.5  | 10.8 | 30.8 | 43.7 | 57.9 | 67.6 | 71.1 | 69.7 | 63.3 | 50.6 | 35.7 | 29.6 | 44.6   |
| 1980           | 20.1 | 18.1 | 29.7 | 47.9 | 61.7 | 68.4 | 75.9 | 73.0 | 63.6 | 47.8 | 37.9 | 23.9 | 47.3   |
| 1981           | 21.7 | 25.6 | 38.4 | 51.2 | 57.1 | 69.3 | 72.2 | 69.9 |      |      |      |      |        |
| 1982           |      |      |      |      |      |      |      |      |      |      | 35.7 | 30.5 |        |
| 1983           | 23.1 | 28.2 | 35.3 | 43.4 | 54.9 | 69.8 | 75.9 | 76.6 | 62.9 | 51.2 | 39.0 | 9.6  | 47.5   |
| 1984           | 15.7 | 30.7 | 28.4 | 47.7 | 55.1 | 68.9 | 70.6 | 72.4 | 60.6 | 53.9 | 37.4 | 27.4 | 47.4   |
| 1985           | 11.9 | 19.3 | 39.8 | 54.0 | 61.3 | 65.8 | 71.3 | 67.1 | 61.8 | 49.8 | 30.4 | 8.7  | 45.1   |
| 1986           | 18.4 | 19.2 | 37.3 | 50.9 | 59.5 | 67.2 | 73.6 | 65.0 | 63.3 | 50.8 | 30.9 | 25.7 | 46.8   |
| 1987           | 23.1 | 31.9 | 38.4 | 51.5 | 62.4 | 71.0 | 75.0 | 69.1 | 61.7 | 44.7 | 40.8 | 27.8 | 49.8   |
| 1988           | 13.9 | 17.9 | 36.0 | 47.5 | 62.6 | 71.3 | 76.1 | 74.7 | 64.2 | 45.1 | 37.7 | 25.3 | 47.7   |
| 1989           | 27.4 | 14.4 | 32.3 | 46.5 | 58.1 | 67.0 | 73.5 | 67.9 | 58.5 | 52.3 | 34.2 | 13.3 | 45.5   |
| 1990           | 28.7 | 26.8 | 38.8 | 47.6 | 55.1 | 68.3 | 71.1 | 70.8 | 64.2 | 49.2 | 41.2 | 20.0 | 48.5   |
| 1991           | 14.5 | 26.9 | 37.9 | 50.9 | 64.1 | 72.2 | 73.2 | 71.3 | 61.3 | 49.6 | 30.3 | 26.3 | 48.2   |
| 1992           | 24.7 | 30.4 | 36.8 | 45.3 | 59.4 | 66.7 | 66.7 | 64.4 | 59.4 | 48.8 | 32.9 | 23.5 | 46.6   |
| 1993           | 20.8 | 20.3 | 31.7 | 44.4 | 59.3 | 66.2 | 71.4 | 71.1 | 57.3 | 48.3 | 34.7 | 26.2 | 46.0   |
| 1994           | 9.7  | 16.7 | 36.1 | 48.3 | 59.2 | 70.2 | 69.7 | 66.4 | 64.8 | 52.9 | 39.9 | 29.0 | 46.9   |
| 1995           | 18.7 | 23.1 | 37.3 | 43.6 | 57.4 | 70.7 | 73.3 | 76.9 | 60.2 | 49.7 | 28.8 | 21.9 | 46.8   |
| 1996           | 16.3 | 23.0 | 29.3 | 44.4 | 54.7 | 68.0 | 68.8 | 70.4 | 61.2 | 50.2 | 29.2 | 20.7 | 44.7   |
| 1997           | 15.1 | 24.5 | 35.5 | 43.9 | 53.0 | 68.9 | 70.9 | 67.5 | 62.3 | 51.5 | 32.2 | 26.5 | 46.0   |
| 1998           | 24.2 | 35.6 | 34.7 | 48.8 | 63.9 | 67.0 | 71.9 | 72.0 | 66.1 | 52.0 | 40.4 | 29.7 | 50.5   |
| 1999           | 16.2 | 31.7 | 34.3 | 50.1 | 60.3 | 68.4 | 75.5 | 68.1 | 60.3 | 50.2 | 43.0 | 25.8 | 48.7   |
| 2000           | 20.1 | 30.3 | 42.3 | 47.3 | 60.8 | 66.3 | 70.6 | 71.1 | 62.6 | 54.3 | 33.5 | 10.4 | 47.5   |
| 2001           | 19.6 | 18.6 | 30.7 | 52.2 | 60.3 | 66.8 | 73.4 | 71.2 | 59.6 | 48.5 | 46.6 | 29.8 | 48.1   |
| 2002           | 28.5 | 29.4 | 31.3 | 47.7 | 55.1 | 69.7 | 74.0 | 69.9 | 64.3 | 45.7 | 34.4 | 27.4 | 48.1   |
| 2003           | 17.9 | 18.9 | 33.7 | 47.8 | 55.8 | 65.6 | 70.6 | 72.9 | 60.6 | 50.0 | 36.6 | 27.5 | 46.5   |
| 2004           | 16.3 | 23.7 | 39.0 | 49.4 | 59.7 | 66.2 | 69.3 | 65.0 | 65.1 | 50.6 | 40.4 | 25.9 | 47.6   |
| 2005           | 19.0 | 29.3 | 34.2 | 52.2 | 55.6 | 72.2 | 73.0 | 70.8 | 66.3 | 51.6 | 38.5 | 17.7 | 48.4   |
| 2006           | 31.7 | 22.6 | 35.7 | 52.0 | 58.8 | 67.5 | 74.1 | 70.8 | 58.7 | 46.2 | 40.3 | 30.8 | 49.1   |
| 2007           | 22.3 | 13.1 | 39.9 | 45.8 | 63.7 | 68.9 | 71.1 | 72.3 | 64.2 | 55.1 | 36.2 | 20.6 | 47.8   |
| POR=<br>55 YRS | 17.8 | 22.7 | 33.6 | 47.6 | 58.5 | 68.0 | 72.0 | 70.1 | 61.8 | 50.6 | 36.0 | 23.1 | 46.8   |

**HEATING DEGREE DAYS (base 65°F) 2007 DUBUQUE (KDBQ)**

| YEAR    | JUL | AUG | SEP | OCT | NOV  | DEC  | JAN  | FEB  | MAR  | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1978-79 | 3   | 12  | 90  | 505 | 869  | 1414 | 1877 | 1511 | 1053 | 632 | 247 | 25  | 8238  |
| 1979-80 | 6   | 27  | 110 | 449 | 873  | 1087 | 1383 | 1356 | 1086 | 516 | 173 | 28  | 7094  |
| 1980-81 | 0   | 3   | 113 | 527 | 806  | 1266 | 1337 | 1097 | 819  | 408 | 262 | 9   | 6647  |
| 1981-82 | 15  | 13  |     |     |      |      |      |      |      |     |     |     |       |
| 1982-83 |     |     |     |     | 871  | 1063 | 1294 | 1021 | 913  | 641 | 306 | 25  |       |
| 1983-84 | 5   | 0   | 144 | 429 | 773  | 1716 | 1523 | 988  | 1126 | 513 | 307 | 11  | 7535  |
| 1984-85 | 9   | 8   | 198 | 339 | 824  | 1158 | 1642 | 1275 | 776  | 362 | 135 | 64  | 6790  |
| 1985-86 | 4   | 23  | 198 | 465 | 1032 | 1744 | 1438 | 1276 | 856  | 433 | 180 | 45  | 7694  |
| 1986-87 | 3   | 56  | 112 | 428 | 1013 | 1210 | 1292 | 922  | 816  | 410 | 149 | 16  | 6427  |
| 1987-88 | 3   | 46  | 127 | 619 | 718  | 1146 | 1581 | 1361 | 892  | 519 | 113 | 20  | 7145  |
| 1988-89 | 1   | 14  | 87  | 611 | 813  | 1226 | 1160 | 1416 | 1010 | 549 | 247 | 41  | 7175  |
| 1989-90 | 2   | 15  | 208 | 394 | 917  | 1602 | 1120 | 1063 | 805  | 547 | 301 | 38  | 7012  |
| 1990-91 | 7   | 1   | 139 | 490 | 707  | 1388 | 1561 | 1063 | 833  | 425 | 159 | 10  | 6783  |
| 1991-92 | 3   | 6   | 197 | 477 | 1033 | 1191 | 1241 | 994  | 865  | 585 | 212 | 46  | 6850  |
| 1992-93 | 33  | 75  | 201 | 495 | 958  | 1281 | 1362 | 1246 | 1026 | 610 | 194 | 74  | 7555  |
| 1993-94 | 0   | 10  | 241 | 516 | 901  | 1199 | 1712 | 1348 | 893  | 509 | 207 | 22  | 7558  |
| 1994-95 | 6   | 44  | 91  | 370 | 746  | 1109 | 1432 | 1168 | 850  | 636 | 232 | 24  | 6708  |
| 1995-96 | 10  | 0   | 187 | 468 | 1078 | 1331 | 1507 | 1167 | 1101 | 612 | 342 | 53  | 7856  |
| 1996-97 | 7   | 0   | 164 | 457 | 1065 | 1366 | 1540 | 1128 | 908  | 627 | 367 | 16  | 7645  |
| 1997-98 | 15  | 28  | 112 | 457 | 975  | 1186 | 1259 | 820  | 931  | 479 | 100 | 78  | 6440  |
| 1998-99 | 0   | 0   | 64  | 396 | 729  | 1087 | 1508 | 926  | 947  | 441 | 166 | 51  | 6315  |
| 1999-00 | 0   | 11  | 186 | 450 | 652  | 1206 | 1384 | 1002 | 697  | 526 | 166 | 50  | 6330  |
| 2000-01 | 2   | 3   | 157 | 330 | 941  | 1685 | 1399 | 1292 | 1057 | 380 | 195 | 75  | 7516  |
| 2001-02 | 9   | 7   | 180 | 505 | 545  | 1085 | 1124 | 990  | 1039 | 540 | 319 | 32  | 6375  |
| 2002-03 | 0   | 6   | 101 | 597 | 911  | 1160 | 1452 | 1284 | 966  | 522 | 283 | 76  | 7358  |
| 2003-04 | 1   | 4   | 183 | 455 | 844  | 1152 | 1503 | 1190 | 796  | 465 | 199 | 59  | 6851  |
| 2004-05 | 15  | 77  | 75  | 445 | 731  | 1205 | 1418 | 992  | 944  | 378 | 287 | 3   | 6570  |
| 2005-06 | 6   | 7   | 74  | 435 | 788  | 1460 | 1028 | 1181 | 903  | 384 | 254 | 35  | 6555  |
| 2006-07 | 0   | 3   | 199 | 592 | 734  | 1055 | 1313 | 1446 | 776  | 573 | 91  | 20  | 6802  |
| 2007-   | 4   | 3   | 110 | 333 | 858  | 1370 |      |      |      |     |     |     |       |

WBAN : 94908

**COOLING DEGREE DAYS (base 65°F) 2007 DUBUQUE (KDBQ)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1978 | 0   | 0   | 0   | 0   | 52  | 117 | 210 | 202 | 131 | 1   | 0   | 0   | 713   |
| 1979 | 0   | 0   | 0   | 0   | 36  | 106 | 203 | 181 | 66  | 8   | 0   | 0   | 600   |
| 1980 | 0   | 0   | 0   | 11  | 76  | 136 | 347 | 257 | 78  | 0   | 0   | 0   | 905   |
| 1981 | 0   | 0   | 0   | 1   | 23  | 144 | 247 | 170 |     |     |     |     |       |
| 1982 |     |     |     |     |     |     |     |     |     |     | 0   | 0   |       |
| 1983 | 0   | 0   | 0   | 0   | 0   | 176 | 349 | 367 | 90  | 9   | 0   | 0   | 991   |
| 1984 | 0   | 0   | 0   | 1   | 9   | 138 | 190 | 243 | 72  | 1   | 0   | 0   | 654   |
| 1985 | 0   | 0   | 0   | 41  | 28  | 93  | 206 | 94  | 112 | 0   | 0   | 0   | 574   |
| 1986 | 0   | 0   | 2   | 15  | 15  | 116 | 276 | 64  | 67  | 0   | 0   | 0   | 555   |
| 1987 | 0   | 0   | 0   | 11  | 76  | 203 | 322 | 182 | 34  | 0   | 0   | 0   | 828   |
| 1988 | 0   | 0   | 0   | 0   | 49  | 216 | 351 | 325 | 68  | 0   | 0   | 0   | 1009  |
| 1989 | 0   | 0   | 1   | 1   | 41  | 110 | 272 | 112 | 21  | 9   | 0   | 0   | 567   |
| 1990 | 0   | 0   | 0   | 29  | 1   | 143 | 203 | 191 | 120 | 6   | 0   | 0   | 693   |
| 1991 | 0   | 0   | 0   | 8   | 136 | 234 | 264 | 207 | 91  | 4   | 0   | 0   | 944   |
| 1992 | 0   | 0   | 0   | 0   | 44  | 105 | 94  | 63  | 39  | 1   | 0   | 0   | 346   |
| 1993 | 0   | 0   | 0   | 0   | 27  | 117 | 204 | 209 | 17  | 5   | 0   | 0   | 579   |
| 1994 | 0   | 0   | 0   | 15  | 36  | 185 | 158 | 97  | 91  | 2   | 0   | 0   | 584   |
| 1995 | 0   | 0   | 0   | 0   | 1   | 203 | 273 | 377 | 49  | 3   | 0   | 0   | 906   |
| 1996 | 0   | 0   | 0   | 0   | 28  | 149 | 130 | 175 | 58  | 0   | 0   | 0   | 540   |
| 1997 | 0   | 0   | 0   | 0   | 1   | 142 | 205 | 110 | 36  | 45  | 0   | 0   | 539   |
| 1998 | 0   | 0   | 1   | 0   | 75  | 148 | 222 | 224 | 105 | 0   | 0   | 0   | 775   |
| 1999 | 0   | 0   | 0   | 0   | 28  | 157 | 333 | 115 | 51  | 0   | 0   | 0   | 684   |
| 2000 | 0   | 0   | 0   | 0   | 41  | 96  | 183 | 200 | 93  | 7   | 1   | 0   | 621   |
| 2001 | 0   | 0   | 0   | 5   | 54  | 138 | 278 | 209 | 27  | 0   | 0   | 0   | 711   |
| 2002 | 0   | 0   | 0   | 26  | 20  | 177 | 286 | 166 | 88  | 4   | 0   | 0   | 767   |
| 2003 | 0   | 0   | 0   | 9   | 1   | 101 | 180 | 255 | 57  | 0   | 0   | 0   | 603   |
| 2004 | 0   | 0   | 0   | 4   | 40  | 102 | 155 | 81  | 85  | 4   | 0   | 0   | 471   |
| 2005 | 0   | 0   | 0   | 2   | 5   | 227 | 261 | 196 | 118 | 30  | 0   | 0   | 839   |
| 2006 | 0   | 0   | 0   | 1   | 70  | 113 | 291 | 190 | 16  | 17  | 0   | 0   | 698   |
| 2007 | 0   | 0   | 5   | 4   | 55  | 146 | 201 | 234 | 91  | 34  | 0   | 0   | 770   |

## SNOWFALL (inches) 2007 DUBUQUE (KDBQ)

| YEAR           | JUL | AUG | SEP | OCT | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|------|-----|-----|-------|
| 1978-79        | 0.0 | 0.0 | 0.0 | 0.0 | 8.0  | 17.0 | 29.3 | 8.7  | 3.3  | 4.1  | 0.0 | 0.0 | 70.4  |
| 1979-80        | 0.0 | 0.0 | 0.0 | 0.0 | 1.9  | 1.5  | 7.1  | 12.3 | 7.9  | 5.3  | 0.0 | 0.0 | 36.0  |
| 1980-81        | 0.0 | 0.0 | 0.0 | 1.4 | 2.1  | 7.0  | 3.7  | 6.5  | 1.0  | 0.0  | 0.0 | 0.0 | 21.7  |
| 1981-82        | 0.0 | 0.0 |     |     |      |      |      |      |      |      |     |     |       |
| 1982-83        |     |     |     |     | 0.0  | 0.0  | 5.9  | 15.6 | 18.4 | 12.3 | 0.0 | 0.0 |       |
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 1.3  | 18.4 | 11.5 | 0.9  | 10.7 | 3.1  | 0.0 | 0.0 | 45.9  |
| 1984-85        | 0.0 | 0.0 | 0.0 | 0.0 | 1.0  | 14.2 | 13.7 | 6.4  | 8.1  | 0.1  | 0.0 | 0.0 | 43.5  |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | 10.4 | 18.7 | 15.8 | 12.8 | 0.8  | 1.3  | 0.0 | 0.0 | 59.8  |
| 1986-87        | 0.0 | 0.0 | T   | T   | 13.9 | 3.3  | 8.7  | T    | 8.0  | T    | 0.0 | 0.0 | 33.9  |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | 1.1  | 20.9 | 8.4  | 8.3  | 1.5  | 1.7  | 0.0 | 0.0 | 41.9  |
| 1988-89        |     |     |     |     | 1.0  | 4.4  | 2.4  | 8.3  | 7.7  | 0.2  | T   | 0.0 |       |
| 1989-90        | 0.0 | 0.0 | 0.0 | T   | 1.8  | 8.3  | 7.1  | 9.7  | 0.5  | 0.3  | 0.0 | 0.0 | 27.7  |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.0 | 5.3  | 18.8 | 12.5 | 2.6  | 12.7 | 0.1  | T   | 0.0 | 52.0  |
| 1991-92        | 0.0 | 0.0 | 0.0 | T   | 3.7  | 6.5  | 9.1  | 10.7 | 6.0  | 0.2  | 0.0 | 0.0 | 36.2  |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.4 | 12.6 | 7.4  | 8.6  | 8.6  | 14.9 | 11.3 | 0.0 | T   | 63.8  |
| 1993-94        | 0.0 | 0.0 | 0.0 | T   | 1.0  | 5.6  | 15.0 | 23.7 | 0.6  | 6.0  | 0.0 | 0.0 | 51.9  |
| 1994-95        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 16.0 | 13.2 | 0.5  | 6.5  | 0.4  | 0.0 | 0.0 | 36.6  |
| 1995-96        | 0.0 | 0.0 | 0.0 |     | 4.6  | 0.5  | 17.2 |      |      | 1.8  | 0.0 | 0.0 |       |
| 1996-97        |     |     |     | 0.0 | 5.2  |      |      |      |      |      |     |     |       |
| 1997-98        |     |     |     |     |      |      | 7.1  | 0.2  | 10.1 | T    | 0.0 | 0.0 |       |
| 1998-99        | 0.0 | 0.0 | 0.0 | 0.0 | 1.1  | 1.8  | 18.8 | 2.4  | 8.8  | 0.0  | 0.0 | 0.0 | 32.9  |
| 1999-00        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 7.3  | 19.3 | 9.4  | 2.0  | 2.8  | 0.0 | 0.0 | 40.8  |
| 2000-01        | 0.0 | 0.0 | 0.0 | 0.0 | 0.7  | 37.6 | 3.5  | 7.8  | 3.1  | T    | 0.0 | 0.0 | 52.7  |
| 2001-02        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 0.6  | 4.8  | 2.9  | 8.7  | 1.2  | 0.0 | 0.0 | 18.2  |
| 2002-03        | 0.0 | 0.0 | 0.0 | T   | T    | 1.1  | 4.1  | 8.1  | 7.4  | 2.7  | 0.0 | 0.0 | 23.4  |
| 2003-04        | 0.0 | 0.0 | 0.0 | T   | T    | 6.2  | 6.7  | 14.5 | 2.5  | 0.0  | 0.0 | 0.0 | 29.9  |
| 2004-05        | 0.0 | 0.0 | 0.0 | 0.0 | 0.9  | 1.1  | 15.5 | 4.0  | 4.9  | T    | T   | 0.0 | 26.4  |
| 2005-06        | 0.0 | 0.0 | 0.0 | 0.0 | 3.8  | 14.2 | 2.1  | 7.2  | 7.8  | T    | 0.0 | 0.0 | 35.1  |
| 2006-07        | 0.0 | 0.0 | 0.0 | T   | 1.3  | T    | 8.8  | 20.7 | 2.9  | 6.6  | 0.0 | 0.0 | 40.3  |
| 2007-          | 0.0 | 0.0 | 0.0 | 0.0 | 2.2  | 20.6 |      |      |      |      |     |     |       |
| POR=<br>54 YRS | 0.0 | 0.0 | T   | 0.1 | 3.1  | 9.8  | 9.3  | 7.9  | 8.5  | 2.3  | 0.1 | T   | 41.1  |

WBAN : 94908

### REFERENCE NOTES :

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

# 2007 DUBUQUE IOWA (KDBQ)

The terrain around Dubuque varies from gently rolling, 10 to 15 miles to the south and west, to steep hills and bluffs around the city and along the Mississippi River.

The principal feature of the climate in Dubuque is its variety. The Dubuque area is subject to weather ranging from the cold, dry, arctic air masses in the winter, with readings as low as 32 degrees below zero, to the hot, dry weather of the desert southwest in the summer when the temperatures reach about 110. More often the area is covered by mild Pacific air that has lost considerable moisture in crossing the mountains far to the west, or by cool, dry Canadian air, or by warm, moist air from the Gulf regions. Most of the year the latter three types of air masses dominate Dubuque weather, with the invasions of Gulf air rarely occurring in the winter.

The seasons vary widely from year to year at Dubuque. For example, successive invasions of cold air from the north may bring a long, cold winter with snow-covered ground from mid November until March and many days of sub-zero temperatures. Another winter can be mild with bare ground most of the season and only a few sub-zero temperature readings. The summers, too, may vary from hot and humid with considerable thunderstorm activity when the Gulf air prevails, to relatively cool, dry weather when air of northerly origin dominates the season.

All seasons are marked by storms that accompany the changes from one type of air mass to another. In winter, rain changes to sleet and snow, and occasionally a peal of thunder is heard at the height of a snowstorm. In summer, thunderstorms are frequently heavy. They are occasionally accompanied by hail and on rare occasions by tornadoes. Thunderstorms have been sufficiently intense at times to raise the Mississippi River, which is about one-fourth mile wide at Debuque, nearly 5 feet overnight. Flash floods have drowned many people.

Most of the precipitation occurs during the spring and fall seasons. The last occurrence of snow and freezing rain can be in late May, and the first occurrence in late September.

While the climate of Dubuque does not lack for variety, there are times when a particular weather condition may persist for an extended period. Cold weather has lasted as long as 20 days in succession with sub-zero readings. Heat waves have persisted for 10 or more days with readings around 100 degrees each day. Hot, dry spells occasionally plague the crops and livestock in summer, but there are frequent periods of mild, dry weather in the spring and frequently in the autumn.

# Station Location

DUBUQUE

| LOCATION   | Occupied From | Occupied To | Airline Distances and Directions from previous Location | Latitude |         | Longitude  |                         | ELEVATION ABOVE |                      |              |                 |                           |                     |                   | AUTOMATIC OBSERVING EQUIPMENT *  | REMARKS |
|--|---------------|-------------|---|----------|---------|------------|-------------------------|-----------------|----------------------|--------------|-----------------|---------------------------|---------------------|-------------------|--|---------|
|  |               |             |   | NORTH    | WEST    | SEA LEVEL  | GROUND                  |                 |                      |              |                 |                           |                     |                   |  |         |
|  |               |             |   |          |         |            | GROUND TEMPERATURE SITE | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET RAIN GAUGE | WEIGHING RAIN GAUGE | 8 INCH RAIN GAUGE |  |         |
| *NOTE:   |               |             |   |          |         |            |                         |                 |                      |              |                 |                           |                     |                   |  |         |
| AIRPORT  |               |             |   |          |         |            |                         |                 |                      |              |                 |                           |                     |                   |  |         |
| Administration Bldg *<br>Municipal Airport<br><br>* or Terminal Bldg. +<br><br>+ Cresent Aviation Bldg. eff. 1987. | 1/26/51       | 09/01/95    | 6.8 mi. SW  | 42° 24'  | 90° 42' | 1065 e1056 | 31 e23                  | 5 g5            | c5 g5                |              |                 | 3 i4                      | 3 h3                | d5 f5             | c. Effective 9/9/51. Evaporation records began 8/14/62.<br>d. Commissioned 1800' WSW of thermometer site 6/1/65.<br>e. Effective 6/1/65.<br>f. Type change 6/19/85.<br>g. Moved 140' S 9/1987.<br>h. Moved 165' S 9/28/87.<br>i. Moved 165' S 10/5/87. |         |
| Municipal Airport  | 09/01/95      | Present     | NA  | 42° 24'  | 90° 42' | j1069      |                         |                 |                      |              |                 |                           |                     | S                 | ASOS Commissioned 09/01/95<br>j. Ground elevation.   |         |

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\* NOTES: For earlier station history see previous editions. Station inactive 9/04/1981-11/01/1982.