



# AUGUST 2002

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

## MILWAUKEE, WI

GENERAL MITCHELL FIELD (MKE)

Lat: 42° 56' N Long: 87° 53' W Elev (Ground): 677 Feet

Time Zone: CENTRAL WBAN: 14839 ISSN #:0198-5752

| DATE            | TEMPERATURE °F |         |         |                    |                   |                     | DEG DAYS<br>BASE 65° |         | WEATHER                            | SNOW/ICE<br>ON GND (IN) |             | PRECIPITATION<br>(INCHES) |                                   | PRESSURE<br>(INCHES OF HG) |                         | WIND SPEED = MPH<br>DIR = TENS OF DEGREES |                              |                  |          |     |                              |     |      | DATE   |       |     |    |     |                     |  |  |  |  |
|-----------------|----------------|---------|---------|--------------------|-------------------|---------------------|----------------------|---------|------------------------------------|-------------------------|-------------|---------------------------|-----------------------------------|----------------------------|-------------------------|---|------------------------------|------------------|----------|-----|------------------------------|-----|------|--|-------|-----|----|-----|---------------------|--|--|--|--|
|                 | MAXIMUM        | MINIMUM | AVERAGE | DEP FROM<br>NORMAL | AVERAGE<br>DEW PT | AVERAGE<br>WET BULB | HEATING              | COOLING |                                    | 0600<br>LST             | 1200<br>LST | 2400<br>LST               | 2400<br>LST                       | AVERAGE<br>STATION         | AVERAGE<br>SEA<br>LEVEL | RESULTANT<br>SPEED                        | RES DIR                      | AVERAGE<br>SPEED | MAXIMUM  |     |                              |     |      |  |       |     |    |     |                     |  |  |  |  |
|                 |                |         |         |                    |                   |                     |                      |         |                                    |                         |             |                           |                                   |                            |                         |   |                              |                  | 5-SEC    |     | 2-MIN                        |     |      |  |       |     |    |     |                     |  |  |  |  |
|                 |                |         |         |                    |                   |                     |                      |         |                                    |                         |             |                           |                                   |                            |                         |   |                              |                  | SPEED    | DIR | SPEED                        | DIR |      |  |       |     |    |     |                     |  |  |  |  |
| 1               | 2              | 3       | 4       | 5                  | 6                 | 7                   | 8                    | 9       | 10                                 | 11                      | 12          | 13                        | 14                                | 15                         | 16                      | 17  | 18                           | 19               | 20       | 21  | 22                           | 23  | 24   |  |       |     |    |     |                     |  |  |  |  |
| 01              | 95*            | 74      | 85*     | 12                 | 69                | 74                  | 0                    | 20      | TS RA                              | 0                       |             | 0.0                       | 0.01                              | 29.13                      | 29.85                   | 9.6                                       | 24                           | 13.0             | 33       | 34  | 26                           | 23  | 01   |  |       |     |    |     |                     |  |  |  |  |
| 02              | 76             | 64      | 70      | -3                 | 57                | 63                  | 0                    | 5       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.36                      | 30.09                   | 6.7                                       | 05                           | 9.2              | 26       | 02  | 18                           | 04  | 02   |  |       |     |    |     |                     |  |  |  |  |
| 03              | 79             | 59      | 69      | -4                 | 64                | 67                  | 0                    | 4       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.41                      | 30.15                   | 4.3                                       | 12                           | 5.4              | 16       | 11  | 13                           | 14  | 03   |  |       |     |    |     |                     |  |  |  |  |
| 04              | 85             | 70      | 78      | 6                  | 69                | 72                  | 0                    | 13      | TS TSRA RA BR VCTS                 | 0                       |             | 0.0                       | 0.24                              | 29.36                      | 30.09                   | 3.2                                       | 24                           | 5.7              | 37       | 32  | 29                           | 33  | 04   |  |       |     |    |     |                     |  |  |  |  |
| 05              | 78             | 66      | 72      | 0                  | 65                | 68                  | 0                    | 7       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.42                      | 30.15                   | 10.9                                      | 04                           | 11.2             | 26       | 05  | 20                           | 04  | 05   |  |       |     |    |     |                     |  |  |  |  |
| 06              | 70             | 61      | 66      | -6                 | 54                | 59                  | 0                    | 1       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.55                      | 30.29                   | 12.4                                      | 05                           | 13.2             | 25       | 07  | 20                           | 05  | 06   |  |       |     |    |     |                     |  |  |  |  |
| 07              | 73             | 58      | 66      | -6                 | 56                | 60                  | 0                    | 1       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.55                      | 30.29                   | 2.6                                       | 08                           | 6.3              | 17       | 07  | 14                           | 09  | 07   |  |       |     |    |     |                     |  |  |  |  |
| 08              | 77             | 59      | 68      | -4                 | 58                | 62                  | 0                    | 3       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.53                      | 30.27                   | 3.6                                       | 11                           | 5.5              | 17       | 10  | 14                           | 12  | 08   |  |       |     |    |     |                     |  |  |  |  |
| 09              | 80             | 59      | 70      | -2                 | 59                | 63                  | 0                    | 5       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.43                      | 30.17                   | 5.9                                       | 15                           | 6.8              | 21       | 14  | 18                           | 14  | 09   |  |       |     |    |     |                     |  |  |  |  |
| 10              | 89             | 64      | 77      | 5                  | 61                | 67                  | 0                    | 12      |                                    | 0                       |             | 0.0                       | 0.00                              | 29.27                      | 30.00                   | 9.7                                       | 23                           | 9.9              | 23       | 23  | 18                           | 24  | 10   |  |       |     |    |     |                     |  |  |  |  |
| 11              | 92             | 69      | 81      | 9                  | 65                | 70                  | 0                    | 16      | BR HZ                              | 0                       |             | 0.0                       | 0.00                              | 29.24                      | 29.96                   | 5.5                                       | 19                           | 7.9              | 21       | 14  | 20                           | 14  | 11   |  |       |     |    |     |                     |  |  |  |  |
| 12              | 90             | 67      | 79      | 7                  | 68                | 71                  | 0                    | 14      | TSRA RA HZ VCTS                    | 0                       |             | 0.0                       | 2.32                              | 29.18                      | 29.91                   | 9.2                                       | 22                           | 11.8             | 32       | 30  | 25                           | 20  | 12   |  |       |     |    |     |                     |  |  |  |  |
| 13              | 84             | 68      | 76      | 4                  | 67                | 69                  | 0                    | 11      | TS TSRA RA BR                      | 0                       |             | 0.0                       | 0.57                              | 29.11                      | 29.84                   | 4.9                                       | 21                           | 7.4              | 23       | 16  | 20                           | 15  | 13   |  |       |     |    |     |                     |  |  |  |  |
| 14              | 78             | 64      | 71      | -1                 | 59                | 63                  | 0                    | 6       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.12                      | 29.85                   | 6.1                                       | 25                           | 7.7              | 21       | 23  | 17                           | 23  | 14   |  |       |     |    |     |                     |  |  |  |  |
| 15              | 84             | 62      | 73      | 2                  | 63                | 67                  | 0                    | 8       | RA BR                              | 0                       |             | 0.0                       | T                                 | 29.14                      | 29.87                   | 13.2                                      | 21                           | 13.8             | 33       | 20  | 26                           | 22  | 15   |  |       |     |    |     |                     |  |  |  |  |
| 16              | 81             | 69      | 75      | 4                  | 62                | 67                  | 0                    | 10      | RA BR                              | 0                       |             | 0.0                       | T                                 | 29.26                      | 29.99                   | 2.7                                       | 22                           | 8.2              | 18       | 24  | 14                           | 14  | 16   |  |       |     |    |     |                     |  |  |  |  |
| 17              | 87             | 64      | 76      | 5                  | 64                | 68                  | 0                    | 11      | RA BR                              | 0                       |             | 0.0                       | 0.04                              | 29.10                      | 29.83                   | 11.9                                      | 24                           | 14.3             | 33       | 20  | 26                           | 20  | 17   |  |       |     |    |     |                     |  |  |  |  |
| 18              | 77             | 58      | 68      | -2                 | 50                | 58                  | 0                    | 3       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.21                      | 29.94                   | 4.8                                       | 27                           | 8.6              | 18       | 31  | 15                           | 33  | 18   |  |       |     |    |     |                     |  |  |  |  |
| 19              | 73             | 60      | 67      | -3                 | 57                | 61                  | 0                    | 2       | RA                                 | 0                       |             | 0.0                       | 0.02                              | 29.23                      | 29.96                   | 5.5                                       | 05                           | 7.7              | 17       | 06  | 14                           | 06  | 19   |  |       |     |    |     |                     |  |  |  |  |
| 20              | 73             | 57*     | 65*     | -5                 | 57                | 61                  | 0                    | 0       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.40                      | 30.14                   | 5.5                                       | 13                           | 6.7              | 20       | 12  | 15                           | 11  | 20   |  |       |     |    |     |                     |  |  |  |  |
| 21              | 86             | 64      | 75      | 6                  | 68                | 70                  | 0                    | 10      | TSRA RA BR HZ VCTS                 | 0                       |             | 0.0                       | 0.95                              | 29.26                      | 30.00                   | 9.7                                       | 17                           | 10.6             | 41*      | 26  | 33*                          | 26  | 21   |  |       |     |    |     |                     |  |  |  |  |
| 22              | 73             | 62      | 68      | -1                 | 66                | 66                  | 0                    | 3       | TSRA RA BR                         | 0                       |             | 0.0                       | 0.57                              | 29.28                      | 30.01                   | 5.2                                       | 35                           | 11.8             | 29       | 23  | 23                           | 23  | 22   |  |       |     |    |     |                     |  |  |  |  |
| 23              | 73             | 62      | 68      | -1                 | 66                | 67                  | 0                    | 3       | RA FG+ BR                          | 0                       |             | 0.0                       | T                                 | 29.23                      | 29.96                   | 4.0                                       | 05                           | 5.2              | 15       | 02  | 13                           | 02  | 23   |  |       |     |    |     |                     |  |  |  |  |
| 24              | 80             | 65      | 73      | 4                  | 65                | 68                  | 0                    | 8       | RA BCFG BR                         | 0                       |             | 0.0                       | 0.01                              | 29.21                      | 29.94                   | 1.0                                       | 35                           | 4.7              | 17       | 01  | 13                           | 36  | 24   |  |       |     |    |     |                     |  |  |  |  |
| 25              | 74             | 64      | 69      | 0                  | 65                | 67                  | 0                    | 4       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.27                      | 30.01                   | 3.6                                       | 04                           | 5.0              | 18       | 05  | 16                           | 03  | 25   |  |       |     |    |     |                     |  |  |  |  |
| 26              | 76             | 59      | 68      | -1                 | 59                | 63                  | 0                    | 3       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.32                      | 30.05                   | 3.2                                       | 04                           | 3.9              | 13       | 06  | 10                           | 05  | 26   |  |       |     |    |     |                     |  |  |  |  |
| 27              | 75             | 65      | 70      | 1                  | 66                | 67                  | 0                    | 5       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.45                      | 30.19                   | 9.8                                       | 03                           | 10.3             | 22       | 03  | 17                           | 02  | 27   |  |       |     |    |     |                     |  |  |  |  |
| 28              | 73             | 63      | 68      | 0                  | 63                | 65                  | 0                    | 3       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.50                      | 30.24                   | 5.3                                       | 06                           | 6.2              | 16       | 04  | 14                           | 06  | 28   |  |       |     |    |     |                     |  |  |  |  |
| 29              | 74             | 60      | 67      | -1                 | 61                | 63                  | 0                    | 2       |                                    | 0                       |             | 0.0                       | 0.00                              | 29.46                      | 30.20                   | 3.6                                       | 06                           | 4.4              | 14       | 09  | 12                           | 08  | 29   |  |       |     |    |     |                     |  |  |  |  |
| 30              | 77             | 60      | 69      | 1                  | 64                | 66                  | 0                    | 4       | BR                                 | 0                       |             | 0.0                       | 0.00                              | 29.52                      | 30.26                   | 3.0                                       | 07                           | 4.6              | 13       | 10  | 10                           | 12  | 30   |  |       |     |    |     |                     |  |  |  |  |
| 31              | 75             | 64      | 70      | 2                  | 65                | 67                  | 0                    | 5       | BR                                 | 0                       |             | 0.0                       | 0.00                              | 29.54                      | 30.28                   | 4.5                                       | 12                           | 4.6              | 15       | 10  | 14                           | 10  | 31   |  |       |     |    |     |                     |  |  |  |  |
| 79.3            |                |         |         |                    |                   |                     |                      |         |                                    | 63.2                    | 71.3        | ■ ■                       | 62.3                              | 65.8                       | 0.0                     | 6.5                                       | < MONTHLY AVERAGES           |                  | TOTALS-> |     |                              | 0.0 | 4.73 | 29.32  | 30.06 | 1.5 | 13 | 8.1 | <- MONTHLY AVERAGES |  |  |  |  |
| 0.2             |                |         |         |                    |                   |                     |                      |         |                                    | 1.1                     | 0.7         | ■ ■                       | <-----DEPARTURE FROM NORMAL-----> |                            |                         |   |                              |                  |          |     |                              |     | 0.70 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 |       |     |    |     |                     |  |  |  |  |
| DEGREE DAYS     |                |         |         |                    |                   |                     |                      |         | GREATEST 24-HR PRECIPITATION: 2.69 |                         |             |                           | DATE: 12-13                       |                            |                         |   | SEA LEVEL PRESSURE           |                  |          |     | DATE                         |     |      |  | TIME  |     |    |     |                     |  |  |  |  |
| MONTHLY         |                |         |         |                    |                   |                     |                      |         | GREATEST 24-HR SNOWFALL: 0.0       |                         |             |                           | DATE:                             |                            |                         |   | MAXIMUM                      |                  |          |     | :                            |     |      |  | 30.34 |     |    |     | 06 1052             |  |  |  |  |
| TOTAL DEPARTURE |                |         |         |                    |                   |                     |                      |         | GREATEST SNOW DEPTH: 0             |                         |             |                           | DATE:                             |                            |                         |   | MINIMUM                      |                  |          |     | :                            |     |      |  | 29.70 |     |    |     | 17 0952             |  |  |  |  |
| HEATING: 0 -18  |                |         |         |                    |                   |                     |                      |         | NUMBER OF DAYS WITH →              |                         |             |                           | MAXIMUM TEMP ≥ 90: 3              |                            |                         |   | MINIMUM TEMP ≤ 32: 0         |                  |          |     | PRECIPITATION ≥ 0.01 INCH: 9 |     |      |  |       |     |    |     |                     |  |  |  |  |
| COOLING: 202 22 |                |         |         |                    |                   |                     |                      |         | MAXIMUM TEMP ≤ 32: 0               |                         |             |                           | MINIMUM TEMP ≤ 0: 0               |                            |                         |   | PRECIPITATION ≥ 0.10 INCH: 5 |                  |          |     | SNOWFALL ≥ 1.0 INCH: 0       |     |      |  |       |     |    |     |                     |  |  |  |  |
| SEASON TO DATE  |                |         |         |                    |                   |                     |                      |         | TOTAL DEPARTURE                    |                         |             |                           | TOTAL DEPARTURE                   |                            |                         |   | 0 -31                        |                  |          |     | 779                          |     |      |  | 231   |     |    |     |                     |  |  |  |  |

AUGUST 2002  
MILWAUKEE, WI

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

MILWAUKEE, WI

AUGUST 2002

MKE

WBAN # 14839

| DATE | FOR HOUR (LST) ENDING AT |   |      |      |      |      |      |      |      |      |      |      | DATE | FOR HOUR (LST) ENDING AT |      |      |    |    |      |      |      |      |      |      |    | DATE | Sum if<br>Different<br>(See Note) | 2400<br>LST     |
|------|--------------------------|---|------|------|------|------|------|------|------|------|------|------|------|--------------------------|------|------|----|----|------|------|------|------|------|------|----|------|-----------------------------------|-----------------|
|      | 1                        | 2 | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |      | 13                       | 14   | 15   | 16 | 17 | 18   | 19   | 20   | 21   | 22   | 23   | 24 |      |                                   | Water<br>Equiv. |
| 01   |                          |   | T    |      |      |      |      |      |      |      |      |      | 01   |                          |      |      |    |    |      |      | 0.01 |      |      |      | 01 |      |                                   | 0.01            |
| 02   |                          |   |      |      |      |      |      |      |      |      |      |      | 02   |                          |      |      |    |    |      |      |      |      |      |      | 02 |      |                                   | 0.00            |
| 03   |                          |   |      |      |      |      |      |      |      |      |      |      | 03   |                          |      |      |    |    |      |      |      |      |      |      | 03 |      |                                   | 0.00            |
| 04   |                          |   |      | 0.16 | 0.03 | 0.01 |      |      |      | T    | 0.04 |      | 04   |                          |      |      |    |    | T    | T    |      |      |      | T    | 04 |      |                                   | 0.24            |
| 05   |                          |   |      |      |      |      |      |      |      |      |      |      | 05   |                          |      |      |    |    |      |      |      |      |      |      | 05 |      |                                   | 0.00            |
| 06   |                          |   |      |      |      |      |      |      |      |      |      |      | 06   |                          |      |      |    |    |      |      |      |      |      |      | 06 |      |                                   | 0.00            |
| 07   |                          |   |      |      |      |      |      |      |      |      |      |      | 07   |                          |      |      |    |    |      |      |      |      |      |      | 07 |      |                                   | 0.00            |
| 08   |                          |   |      |      |      |      |      |      |      |      |      |      | 08   |                          |      |      |    |    |      |      |      |      |      |      | 08 |      |                                   | 0.00            |
| 09   |                          |   |      |      |      |      |      |      |      |      |      |      | 09   |                          |      |      |    |    |      |      |      |      |      |      | 09 |      |                                   | 0.00            |
| 10   |                          |   |      |      |      |      |      |      |      |      |      |      | 10   |                          |      |      |    |    |      |      |      |      |      |      | 10 |      |                                   | 0.00            |
| 11   |                          |   |      |      |      |      |      |      |      |      |      |      | 11   |                          |      |      |    |    |      |      |      |      |      |      | 11 |      |                                   | 0.00            |
| 12   |                          |   |      |      |      |      |      |      | 0.05 |      |      |      | 12   |                          |      |      |    |    | 0.02 | 1.46 | 0.49 | 0.28 | 0.02 | T    | 12 |      | 2.32                              |                 |
| 13   | T                        | T |      |      | 0.01 |      |      |      |      |      |      |      | 13   |                          | 0.25 | 0.07 | T  |    | 0.11 | 0.13 | T    |      |      | 13   |    |      | 0.57                              |                 |
| 14   |                          |   |      |      |      |      |      |      |      |      |      |      | 14   |                          |      |      |    |    |      |      |      |      |      |      | 14 |      |                                   | 0.00            |
| 15   |                          |   |      |      |      |      |      |      |      |      |      |      | 15   |                          |      |      |    |    |      |      |      |      |      | T    | 15 |      |                                   | T               |
| 16   | T                        | T |      |      |      |      |      |      |      |      |      |      | 16   |                          |      |      |    |    |      |      |      |      |      |      | 16 |      |                                   | T               |
| 17   |                          |   |      |      |      |      |      | 0.03 | 0.01 |      |      |      | 17   |                          |      |      |    |    |      |      |      |      |      |      | 17 |      |                                   | 0.04            |
| 18   |                          |   |      |      |      |      |      |      |      |      |      |      | 18   |                          |      |      |    |    |      |      |      |      |      |      | 18 |      |                                   | 0.00            |
| 19   | T                        | T |      | 0.01 |      | T    | 0.01 | T    |      |      |      |      | 19   |                          |      |      |    |    |      |      |      |      |      |      | 19 |      |                                   | 0.02            |
| 20   |                          |   |      |      |      |      |      |      |      |      |      |      | 20   |                          |      |      |    |    |      |      |      |      |      |      | 20 |      |                                   | 0.00            |
| 21   |                          |   |      |      |      |      |      |      |      |      |      |      | 21   |                          |      |      |    |    |      | 0.69 | 0.08 | T    | 0.11 | 0.07 | 21 |      | 0.95                              |                 |
| 22   | 0.03                     | T | 0.02 | 0.03 | 0.12 | 0.15 | 0.10 | 0.03 | 0.02 | 0.03 | 0.02 | 0.01 | 22   |                          | 0.01 | T    |    |    |      |      |      |      |      |      | 22 |      | 0.57                              |                 |
| 23   |                          |   |      |      |      |      |      |      |      |      |      |      | 23   |                          |      |      |    |    |      |      |      |      |      |      | 23 |      |                                   | T               |
| 24   |                          |   |      |      | 0.01 |      |      |      |      |      |      |      | 24   |                          |      |      |    |    |      |      |      |      |      |      | 24 |      |                                   | 0.01            |
| 25   |                          |   |      |      |      |      |      |      |      |      |      |      | 25   |                          |      |      |    |    |      |      |      |      |      |      | 25 |      |                                   | 0.00            |
| 26   |                          |   |      |      |      |      |      |      |      |      |      |      | 26   |                          |      |      |    |    |      |      |      |      |      |      | 26 |      |                                   | 0.00            |
| 27   |                          |   |      |      |      |      |      |      |      |      |      |      | 27   |                          |      |      |    |    |      |      |      |      |      |      | 27 |      |                                   | 0.00            |
| 28   |                          |   |      |      |      |      |      |      |      |      |      |      | 28   |                          |      |      |    |    |      |      |      |      |      |      | 28 |      |                                   | 0.00            |
| 29   |                          |   |      |      |      |      |      |      |      |      |      |      | 29   |                          |      |      |    |    |      |      |      |      |      |      | 29 |      |                                   | 0.00            |
| 30   |                          |   |      |      |      |      |      |      |      |      |      |      | 30   |                          |      |      |    |    |      |      |      |      |      |      | 30 |      |                                   | 0.00            |
| 31   |                          |   |      |      |      |      |      |      |      |      |      |      | 31   |                          |      |      |    |    |      |      |      |      |      |      | 31 |      |                                   | 0.00            |

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes)  | 5    | 10   | 15   | 20   | 30   | 45   | 60   | 80   | 100  | 120  | 150  | 180  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | .40  | .56  | .72  | .89  | 1.25 | 1.44 | 1.47 | 1.53 | 1.90 | 1.96 | 2.09 | 2.23 |
| Ending Date            | 21   | 21   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| Ending Time (Hour/Min) | 1942 | 1946 | 1936 | 1928 | 1937 | 1943 | 1943 | 2011 | 2042 | 2058 | 2134 | 2154 |

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

\* = Extreme for the month (last occurrence if more than one)  
T = Trace precipitation amount  
+ = also occurs on earlier date  
FG+ = Heavy fog, visibility .25 miles or less  
BLANK entries denote missing or unreported data

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

## WEATHER NOTATIONS

**MILWAUKEE, WI**  
**AUGUST 2002**

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

| DATE         | SUNSHINE         |                     | CLOUDINESS<br>(OKTAS) |           |            |           | VISIBILITY<br>(MILES) |         | RESERVED |
|--------------|------------------|---------------------|-----------------------|-----------|------------|-----------|-----------------------|---------|----------|
|              | TOTAL<br>MINUTES | PERCENT<br>POSSIBLE | SR-SS                 |           | MN-MN      |           | MINIMUM               | MAXIMUM |          |
|              |                  |                     | CEILOMETER            | SATELLITE | CEILOMETER | SATELLITE |                       |         |          |
| 01           |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 02           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 03           |                  |                     |                       |           |            |           | 9.00                  | 10.00   |          |
| 04           |                  |                     |                       |           |            |           | 1.50                  | 10.00   |          |
| 05           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 06           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 07           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 08           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 09           |                  |                     |                       |           |            |           | 9.00                  | 10.00   |          |
| 10           |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 11           |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 12           |                  |                     |                       |           |            |           | .50                   | 10.00   |          |
| 13           |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 14           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 15           |                  |                     |                       |           |            |           | 6.00                  | 10.00   |          |
| 16           |                  |                     |                       |           |            |           | 5.00                  | 10.00   |          |
| 17           |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 18           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 19           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 20           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 21           |                  |                     |                       |           |            |           | .50                   | 10.00   |          |
| 22           |                  |                     |                       |           |            |           | .50                   | 10.00   |          |
| 23           |                  |                     |                       |           |            |           | .25                   | 5.00    |          |
| 24           |                  |                     |                       |           |            |           | 2.50                  | 10.00   |          |
| 25           |                  |                     |                       |           |            |           | 9.00                  | 10.00   |          |
| 26           |                  |                     |                       |           |            |           | 9.00                  | 10.00   |          |
| 27           |                  |                     |                       |           |            |           | 8.00                  | 10.00   |          |
| 28           |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 29           |                  |                     |                       |           |            |           | 8.00                  | 10.00   |          |
| 30           |                  |                     |                       |           |            |           | 4.00                  | 10.00   |          |
| 31           |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| MONTHLY AVGS |                  |                     |                       |           |            |           | 6.56                  | 9.77    |          |

SUNSHINE (MINUTES)

Total:

Possible:

Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR PTLY CLDY CLOUDY MISSING

31

MINIMUM VISIBILITY (MILES)

<=0.25 <=3.0 >=7.0

1 9 18

## MILWAUKEE, WI

## AUGUST 2002

MKE

WBAN # 14839

| Hour (LST)                                  |           |                       | SATELLITE                 |                      | Weather | Temperature<br>°F                           |          |           | Relative Humidity (Pct) | Wind     |             | Pressure<br>(Inches,Hg)  |         | Hour (LST) |           |           | SATELLITE             |                           | Weather | Temperature<br>°F    |                       |          | Relative Humidity (Pct) | Wind      |          | Pressure<br>(Inches,Hg) |                          |         |           |
|---|-----------|-----------------------|---------------------------|----------------------|---------|---|----------|-----------|-------------------------|----------|-------------|--------------------------|---------|------------|-----------|-----------|-----------------------|---------------------------|---------|----------------------|-----------------------|----------|-------------------------|-----------|----------|-------------------------|--------------------------|---------|-----------|
|   | Sky Cover | Ceiling<br>100'S OFFT | Observation<br>Time (LST) | EFF CLD AMT<br>Oktas |         | Visibility<br>(Miles)                       | Dry Bulb | Dew Point |                         | Wet Bulb | Speed (MPH) | Direction<br>TENS OF DEG | Station |            | Sea Level | Sky Cover | Ceiling<br>100'S OFFT | Observation<br>Time (LST) |         | EFF CLD AMT<br>Oktas | Visibility<br>(Miles) | Dry Bulb |                         | Dew Point | Wet Bulb | Speed (MPH)             | Direction<br>TENS OF DEG | Station | Sea Level |
|   |           |                       |                           |                      |         |   |          |           |                         |          |             |                          |         |            |           |           |                       |                           |         |                      |                       |          |                         |           |          |                         |                          |         |           |
| Sunrise: 0442      Aug 01      Sunset: 1914 |           |                       |                           |                      |         | Sunrise: 0449      Aug 07      Sunset: 1906 |          |           |                         |          |             |                          |         |            |           |           |                       |                           |         |                      |                       |          |                         |           |          |                         |                          |         |           |
| 03  | FEW       | NC                    |                           |                      | 7.00    | 75  | 69       | 71        | 82                      | 7        | 20          | 29.14                    | 29.86   | 03         | CLR       | NC        |                       |                           | 10.00   | 59                   | 54                    | 56       | 83                      | 5         | 31       | 29.54                   | 30.29                    |         |           |
| 06  | BKN       | 200                   |                           |                      | 7.00    | 75  | 68       | 70        | 79                      | 8        | 22          | 29.18                    | 29.90   | 06         | SCT       | NC        |                       |                           | 10.00   | 59                   | 55                    | 57       | 87                      | 7         | 31       | 29.56                   | 30.3                     |         |           |
| 09  | BKN       | 230                   |                           |                      | 9.00    | 85  | 71       | 75        | 63                      | 18       | 23          | 29.15                    | 29.87   | 09         | SCT       | NC        |                       |                           | 10.00   | 70                   | 57                    | 62       | 64                      | 6         | 13       | 29.57                   | 30.32                    |         |           |
| 12  | BKN       | 250                   |                           |                      | 10.00   | 92  | 71       | 77        | 51                      | 20       | 23          | 29.10                    | 29.81   | 12         | SCT       | NC        |                       |                           | 10.00   | 72                   | 56                    | 62       | 57                      | 10        | 11       | 29.57                   | 30.31                    |         |           |
| 15  | BKN       | 100                   |                           |                      | 10.00   | 92  | 71       | 77        | 51                      | 20       | 22          | 29.07                    | 29.79   | 15         | SCT       | NC        |                       |                           | 10.00   | 72                   | 57                    | 63       | 60                      | 7         | VR       | 29.54                   | 30.29                    |         |           |
| 18  | BKN       | 050                   |                           |                      | 10.00   | 90  | 73       | 78        | 58                      | 13       | 25          | 29.07                    | 29.79   | 18         | FEW       | NC        |                       |                           | 10.00   | 69                   | 57                    | 62       | 66                      | 8         | 06       | 29.53                   | 30.27                    |         |           |
| 21  | BKN       | 090                   |                           |                      | 10.00   | 82  | 64       | 70        | 55                      | 18       | 33          | 29.15                    | 29.87   | 21         | CLR       | NC        |                       |                           | 10.00   | 63                   | 55                    | 58       | 76                      | 0         | 00       | 29.53                   | 30.27                    |         |           |
| 24  | OVC       | 045                   |                           |                      | 10.00   | 78  | 63       | 68        | 60                      | 9        | 03          | 29.23                    | 29.95   | 24         | CLR       | NC        |                       |                           | 10.00   | 62                   | 55                    | 58       | 78                      | 3         | 03       | 29.53                   | 30.27                    |         |           |
| Sunrise: 0444      Aug 02      Sunset: 1912 |           |                       |                           |                      |         | Sunrise: 0450      Aug 08      Sunset: 1905 |          |           |                         |          |             |                          |         |            |           |           |                       |                           |         |                      |                       |          |                         |           |          |                         |                          |         |           |
| 03  | SCT       | NC                    |                           |                      | 10.00   | 70  | 53       | 60        | 55                      | 15       | 03          | 29.31                    | 30.03   | 03         | CLR       | NC        |                       |                           | 10.00   | 60                   | 55                    | 57       | 84                      | 5         | 29       | 29.52                   | 30.27                    |         |           |
| 06  | FEW       | NC                    |                           |                      | 10.00   | 68  | 53       | 59        | 59                      | 10       | 34          | 29.33                    | 30.06   | 06         | FEW       | NC        |                       |                           | 10.00   | 62                   | 56                    | 59       | 81                      | 5         | 32       | 29.56                   | 30.30                    |         |           |
| 09  | CLR       | NC                    |                           |                      | 10.00   | 73  | 51       | 60        | 46                      | 13       | 03          | 29.35                    | 30.09   | 09         | FEW       | NC        |                       |                           | 10.00   | 73                   | 56                    | 63       | 55                      | 0         | 00       | 29.57                   | 30.31                    |         |           |
| 12  | FEW       | NC                    |                           |                      | 10.00   | 73  | 57       | 63        | 57                      | 13       | 06          | 29.38                    | 30.11   | 12         | FEW       | NC        |                       |                           | 10.00   | 76                   | 59                    | 66       | 56                      | 12        | 10       | 29.55                   | 30.29                    |         |           |
| 15  | SCT       | NC                    |                           |                      | 10.00   | 74  | 60       | 65        | 62                      | 9        | 10          | 29.37                    | 30.11   | 15         | FEW       | NC        |                       |                           | 10.00   | 75                   | 60                    | 66       | 60                      | 12        | 12       | 29.52                   | 30.26                    |         |           |
| 18  | CLR       | NC                    |                           |                      | 10.00   | 72  | 59       | 64        | 64                      | 10       | 11          | 29.36                    | 30.10   | 18         | FEW       | NC        |                       |                           | 10.00   | 72                   | 58                    | 63       | 61                      | 9         | 13       | 29.49                   | 30.24                    |         |           |
| 21  | CLR       | NC                    |                           |                      | 10.00   | 69  | 59       | 63        | 70                      | 0        | 00          | 29.40                    | 30.14   | 21         | CLR       | NC        |                       |                           | 10.00   | 68                   | 59                    | 63       | 73                      | 3         | 11       | 29.48                   | 30.22                    |         |           |
| 24  | CLR       | NC                    |                           |                      | 10.00   | 67  | 58       | 62        | 73                      | 3        | 29          | 29.41                    | 30.15   | 24         | CLR       | NC        |                       |                           | 10.00   | 63                   | 57                    | 60       | 81                      | 0         | 00       | 29.48                   | 30.22                    |         |           |
| Sunrise: 0445      Aug 03      Sunset: 1911 |           |                       |                           |                      |         | Sunrise: 0451      Aug 09      Sunset: 1904 |          |           |                         |          |             |                          |         |            |           |           |                       |                           |         |                      |                       |          |                         |           |          |                         |                          |         |           |
| 03  | CLR       | NC                    |                           |                      | 10.00   | 62  | 58       | 60        | 86                      | 5        | 31          | 29.41                    | 30.15   | 03         | CLR       | NC        |                       |                           | 10.00   | 61                   | 58                    | 59       | 90                      | 0         | 00       | 29.47                   | 30.21                    |         |           |
| 06  | FEW       | NC                    |                           |                      | 10.00   | 63  | 59       | 61        | 87                      | 0        | 00          | 29.45                    | 30.19   | 06         | CLR       | NC        |                       |                           | 10.00   | 64                   | 59                    | 61       | 84                      | 0         | 00       | 29.50                   | 30.24                    |         |           |
| 09  | CLR       | NC                    |                           |                      | 10.00   | 74  | 60       | 65        | 62                      | 7        | 09          | 29.46                    | 30.20   | 09         | FEW       | NC        |                       |                           | 10.00   | 75                   | 60                    | 66       | 60                      | 8         | 20       | 29.50                   | 30.24                    |         |           |
| 12  | CLR       | NC                    |                           |                      | 10.00   | 78  | 64       | 69        | 62                      | 9        | 11          | 29.43                    | 30.16   | 12         | FEW       | NC        |                       |                           | 10.00   | 78                   | 62                    | 68       | 58                      | 14        | 11       | 29.45                   | 30.19                    |         |           |
| 15  | SCT       | NC                    |                           |                      | 10.00   | 78  | 66       | 70        | 67                      | 10       | 12          | 29.40                    | 30.14   | 15         | SCT       | NC        |                       |                           | 10.00   | 78                   | 55                    | 64       | 45                      | 16        | 14       | 29.40                   | 30.14                    |         |           |
| 18  | BKN       | 240                   |                           |                      | 10.00   | 74  | 68       | 70        | 82                      | 9        | 12          | 29.36                    | 30.10   | 18         | BKN       | 240       |                       |                           | 10.00   | 75                   | 56                    | 64       | 52                      | 12        | 15       | 29.37                   | 30.11                    |         |           |
| 21  | BKN       | 240                   |                           |                      | 10.00   | 72  | 68       | 69        | 87                      | 0        | 00          | 29.36                    | 30.09   | 21         | FEW       | NC        |                       |                           | 10.00   | 69                   | 60                    | 64       | 73                      | 6         | 17       | 29.36                   | 30.09                    |         |           |
| 24  | BKN       | 220                   |                           |                      | 9.00    | 73  | 70       | 71        | 90                      | 5        | 15          | 29.34                    | 30.07   | 24         | CLR       | NC        |                       |                           | 9.00    | 67                   | 62                    | 64       | 84                      | 6         | 20       | 29.34                   | 30.08                    |         |           |
| Sunrise: 0446      Aug 04      Sunset: 1910 |           |                       |                           |                      |         | Sunrise: 0452      Aug 10      Sunset: 1902 |          |           |                         |          |             |                          |         |            |           |           |                       |                           |         |                      |                       |          |                         |           |          |                         |                          |         |           |
| 03  | OVC       | 180                   |                           | 3.00                 | BR      | 75  | 71       | 72        | 88                      | 7        | 22          | 29.30                    | 30.02   | 03         | CLR       | NC        |                       |                           | 10.00   | 66                   | 59                    | 62       | 78                      | 6         | 23       | 29.32                   | 30.06                    |         |           |
| 06  | OVC       | 170                   |                           |                      |         | 71  | 68       | 69        | 90                      | 3        | 18          | 29.36                    | 30.09   | 06         | CLR       | NC        |                       |                           | 10.00   | 66                   | 59                    | 62       | 78                      | 9         | 23       | 29.32                   | 30.06                    |         |           |
| 09  | BKN       | 140                   |                           |                      | 10.00   | 76  | 69       | 71        | 79                      | 7        | 22          | 29.37                    | 30.10   | 09         | CLR       | NC        |                       |                           | 10.00   | 79                   | 61                    | 68       | 54                      | 10        | 23       | 29.31                   | 30.04                    |         |           |
| 12  | BKN       | 180                   |                           |                      | 10.00   | 81  | 71       | 74        | 72                      | 3        | 19          | 29.36                    | 30.10   | 12         | SCT       | NC        |                       |                           | 10.00   | 84                   | 60                    | 69       | 44                      | 8         | 22       | 29.28                   | 30.00                    |         |           |
| 15  | BKN       | 160                   |                           |                      | 10.00   | 84  | 70       | 74        | 63                      | 8        | 28          | 29.34                    | 30.08   | 15         | SCT       | NC        |                       |                           | 10.00   | 88                   | 60                    | 70       | 39                      | 14        | 21       | 29.23                   | 29.95                    |         |           |
| 18  | OVC       | 070                   |                           |                      | 10.00   | 82  | 72       | 75        | 72                      | 9        | 24          | 29.35                    | 30.09   | 18         | BKN       | 200       |                       |                           | 10.00   | 84                   | 62                    | 70       | 48                      | 10        | 22       | 29.21                   | 29.93                    |         |           |
| 21  | OVC       | 100                   |                           |                      | 10.00   | 78  | 55       | 64        | 45                      | 0        | 00          | 29.36                    | 30.09   | 21         | SCT       | NC        |                       |                           | 10.00   | 78                   | 65                    | 70       | 64                      | 9         | 23       | 29.23                   | 29.96                    |         |           |
| 24  | OVC       | 055                   |                           |                      | 10.00   | 75  | 70       | 72        | 84                      | 3        | 11          | 29.35                    | 30.08   | 24         | FEW       | NC        |                       |                           | 10.00   | 75                   | 64                    | 68       | 69                      | 8         | 24       | 29.24                   | 29.96                    |         |           |
| Sunrise: 0447      Aug 05      Sunset: 1909 |           |                       |                           |                      |         | Sunrise: 0453      Aug 11      Sunset: 1901 |          |           |                         |          |             |                          |         |            |           |           |                       |                           |         |                      |                       |          |                         |           |          |                         |                          |         |           |
| 03  | OVC       | 060                   |                           |                      | 10.00   | 74  | 71       | 72        | 91                      | 5        | 07          | 29.34                    | 30.08   | 03         | CLR       | NC        |                       |                           | 7.00    | 72                   | 65                    | 67       | 79                      | 7         | 25       | 29.24                   | 29.96                    |         |           |
| 06  | BKN       | 060                   |                           |                      | 10.00   | 75  | 71       | 72        | 88                      | 6        | 04          | 29.36                    | 30.10   | 06         | CLR       | NC        |                       |                           | 3.00    | BR                   | 69                    | 65       | 66                      | 87        | 6        | 20                      | 29.26                    | 29.99   |           |
| 09  | BKN       | 250                   |                           |                      | 10.00   | 78  | 69       | 72        | 75                      | 12       | 06          | 29.39                    | 30.13   | 09         | CLR       | NC        |                       |                           | 10.00   | 82                   | 67                    | 72       | 60                      | 8         | 26       | 29.28                   | 30.01                    |         |           |
| 12  | BKN       | 050                   |                           |                      | 10.00   | 76  | 68       | 71        | 77                      | 14       | 06          | 29.42                    | 30.15   | 12         | FEW       | NC        |                       |                           | 10.00   | 88                   | 57                    | 68       | 35                      | 6         | 23       | 29.26                   | 29.98                    |         |           |
| 15  | OVC       | 031                   |                           |                      | 10.00   | 72  | 61       | 65        | 69                      | 12       | 03          | 29.42                    | 30.16   | 15         | SCT       | NC        |                       |                           | 10.00   | 86                   | 68                    | 74       | 55                      | 14        | 13       | 29.23                   | 29.96                    |         |           |
| 18  | BKN       | 140                   |                           |                      | 10.00   | 71  | 58       | 63        | 63                      | 17       | 04          | 29.43                    | 30.17   | 18         | SCT       | NC        |                       |                           | 8.00    | 83                   | 65                    | 71       | 55                      | 9         | 17       | 29.20                   | 29.92                    |         |           |
| 21  | CLR       | NC                    |                           |                      | 10.00   | 69  | 54       | 60        | 59                      | 15       | 04          | 29.49                    | 30.23   | 21         | BKN       | 240       |                       |                           | 7.00    | 79                   | 67                    | 71       | 67                      | 7         | 20       | 29.22                   | 29.94                    |         |           |
| 24  | FEW       | NC                    |                           |                      | 10.00   | 66  | 55       | 60        | 68                      | 17       | 04          | 29.51                    | 30.25   | 24         | CLR       | NC        |                       |                           | 7.00    | 77                   | 68                    | 71       | 74                      | 3         | VR       | 29.24                   | 29.96                    |         |           |
| Sunrise: 0448      Aug 06      Sunset: 1908 |           |                       |                           |                      |         | Sunrise: 0454      Aug 12      Sunset: 1860 |          |           |                         |          |             |                          |         |            |           |           |                       |                           |         |                      |                       |          |                         |           |          |                         |                          |         |           |
| 03  | SCT       | NC                    |                           |                      | 10.00   | 64  | 53       | 58        | 68                      | 18       | 06          | 29.52                    | 30.27   | 03         | SCT       | NC        |                       |                           | 7.00    | 72                   | 68                    | 69       | 87                      | 8         | 21       | 29.20                   | 29.93                    |         |           |
| 06  | SCT       | NC                    |                           |                      | 10.00   | 64  | 53       | 58        | 68                      | 13       | 07          | 29.55                    | 30.29   | 06         | SCT       | NC        |                       |                           | 7.00    | 72                   | 68                    | 69       | 87                      | 12        | 22       | 29.19                   | 29.91                    |         |           |
| 09  | SCT       | NC                    |                           |                      | 10.00   | 68  | 55       | 60        | 63                      | 16       | 06          | 29.58                    | 30.32   | 09         | BKN       | 250       |                       |                           | 8.00    | 81                   | 71                    | 74       | 72                      | 14        | 20       | 29.19                   | 29.91                    |         |           |
| 12  | SCT       | NC                    |                           |                      | 10.00   | 70  | 51       | 59        | 51                      | 13       | 04          | 29.59                    | 30.33   | 12         | BKN       | 060       |                       |                           | 9.00    | 87                   | 69                    | 75       | 55                      | 17        | 25       | 29.18                   | 29.90                    |         |           |
| 15  | SCT       | NC                    |                           |                      | 10.00   | 69  | 52       | 59        | 55                      | 17       | 05          | 29.55                    | 30.29   | 15         | SCT       | NC        |                       |                           | 10.00   | 89                   | 66                    | 73       | 47                      | 18        | 20       | 29.12                   | 29.84                    |         |           |
| 18  | BKN       | 240                   |                           |                      | 10.00   | 66  | 55       | 60        | 68                      | 14       | 04          | 29.52                    | 30.26   | 18         | BKN       | 200       |                       |                           | 7.00    | VCTS                 | 85                    | 67       | 73                      | 55        | 10       | 24                      | 29.15                    | 29.87   |           |
| 21  | SCT       | NC                    |                           |                      | 10.00   | 64  | 56       | 59        | 75                      | 8        | 04          | 29.53                    | 30.28   | 21         | OVC       | 070       |                       |                           | 5.00    | +TSRA                | 69                    | 66       | 67                      | 90        | 6        | 23                      | 29.23                    | 29.86   |           |
| 24  | FEW       | NC                    |                           |                      | 10.00   | 61  | 55       | 58        | 81                      | 6        | 31          | 29.54                    | 30.29   | 24         | OVC       | 075       |                       |                           | 10.00   | -RA                  | 68                    | 66       | 67                      | 93        | 3        | 27                      | 29.20                    | 29.92   |           |

## MILWAUKEE, WI

AUGUST 2002

MKE

WBAN # 14839

| Hour (LST)                                  |           |                      | SATELLITE              |                   | Weather | Temperature °F     |          |           | Relative Humidity (Pct) | Wind     |             | Pressure (Inches,Hg)                        |         | Hour (LST) |           |           | SATELLITE            |                        | Weather | Temperature °F    |                    |          | Relative Humidity (Pct) | Wind      |          | Pressure (Inches,Hg) |                       |         |           |
|---|-----------|----------------------|------------------------|-------------------|---------|--------------------|----------|-----------|-------------------------|----------|-------------|---|---------|------------|-----------|-----------|----------------------|------------------------|---------|-------------------|--------------------|----------|-------------------------|-----------|----------|----------------------|-----------------------|---------|-----------|
|   | Sky Cover | Ceiling 100's Off Ft | Observation Time (LST) | Eff Cld Amt Oktas |         | Visibility (Miles) | Dry Bulb | Dew Point |                         | Wet Bulb | Speed (MPH) | Direction Tens of Deg                       | Station |            | Sea Level | Sky Cover | Ceiling 100's Off Ft | Observation Time (LST) |         | Eff Cld Amt Oktas | Visibility (Miles) | Dry Bulb |                         | Dew Point | Wet Bulb | Speed (MPH)          | Direction Tens of Deg | Station | Sea Level |
|   |           |                      |                        |                   |         |                    |          |           |                         |          |             |   |         |            |           |           |                      |                        |         |                   |                    |          |                         |           |          |                      |                       |         |           |
| Sunrise: 0455      Aug 13      Sunset: 1858 |           |                      |                        |                   |         |                    |          |           |                         |          |             | Sunrise: 0502      Aug 19      Sunset: 1849 |         |            |           |           |                      |                        |         |                   |                    |          |                         |           |          |                      |                       |         |           |
| 03  | BKN       | 090                  |                        | 6.00              | BR      | 68                 | 66       | 67        | 93                      | 10       | 20          | 29.19                                       | 29.92   | 03         | OVC       | 042       |                      | 10.00                  | 64      | 57                | 60                 | 78       | 6                       | 06        | 29.13    | 29.86                |                       |         |           |
| 06  | OVC       | 100                  |                        | 10.00             |         | 68                 | 66       | 67        | 93                      | 6        | 24          | 29.19                                       | 29.91   | 06         | OVC       | 036       |                      | 10.00                  | 61      | 57                | 59                 | 87       | 7                       | 03        | 29.16    | 29.90                |                       |         |           |
| 09  | OVC       | 060                  |                        | 10.00             |         | 73                 | 67       | 69        | 81                      | 8        | 20          | 29.17                                       | 29.90   | 09         | BKN       | 250       |                      | 10.00                  | 66      | 58                | 61                 | 75       | 8                       | 01        | 29.24    | 29.97                |                       |         |           |
| 12  | SCT       | NC                   |                        | 10.00             |         | 83                 | 68       | 73        | 61                      | 9        | 19          | 29.10                                       | 29.83   | 12         | SCT       | NC        |                      | 10.00                  | 71      | 59                | 64                 | 66       | 12                      | 05        | 29.23    | 29.96                |                       |         |           |
| 15  | BKN       | 140                  |                        | 10.00             | -RA     | 72                 | 67       | 69        | 84                      | 0        | 00          | 29.06                                       | 29.79   | 15         | FEW       | NC        |                      | 10.00                  | 71      | 57                | 63                 | 61       | 13                      | 06        | 29.23    | 29.96                |                       |         |           |
| 18  | OVC       | 065                  |                        | 10.00             |         | 72                 | 69       | 70        | 91                      | 6        | 15          | 29.05                                       | 29.78   | 18         | FEW       | NC        |                      | 10.00                  | 68      | 57                | 61                 | 68       | 8                       | 10        | 29.27    | 30.00                |                       |         |           |
| 21  | OVC       | 006                  |                        | 10.00             |         | 70                 | 68       | 69        | 93                      | 3        | 30          | 29.05                                       | 29.78   | 21         | SCT       | NC        |                      | 10.00                  | 66      | 55                | 60                 | 68       | 5                       | 18        | 29.32    | 30.06                |                       |         |           |
| 24  | OVC       | 008                  |                        | 9.00              |         | 68                 | 66       | 67        | 93                      | 3        | 30          | 29.08                                       | 29.80   | 24         | CLR       | NC        |                      | 10.00                  | 62      | 56                | 59                 | 81       | 0                       | 00        | 29.33    | 30.08                |                       |         |           |
| Sunrise: 0456      Aug 14      Sunset: 1857 |           |                      |                        |                   |         |                    |          |           |                         |          |             | Sunrise: 0503      Aug 20      Sunset: 1848 |         |            |           |           |                      |                        |         |                   |                    |          |                         |           |          |                      |                       |         |           |
| 03  | OVC       | 019                  |                        | 10.00             |         | 67                 | 63       | 64        | 87                      | 7        | 29          | 29.08                                       | 29.81   | 03         | CLR       | NC        |                      | 10.00                  | 59      | 55                | 57                 | 87       | 3                       | 31        | 29.35    | 30.09                |                       |         |           |
| 06  | OVC       | 110                  |                        | 10.00             |         | 66                 | 62       | 64        | 87                      | 8        | 28          | 29.12                                       | 29.85   | 06         | CLR       | NC        |                      | 10.00                  | 60      | 56                | 58                 | 86       | 0                       | 00        | 29.41    | 30.15                |                       |         |           |
| 09  | BKN       | 045                  |                        | 10.00             |         | 66                 | 62       | 64        | 87                      | 7        | 26          | 29.14                                       | 29.87   | 09         | SCT       | NC        |                      | 10.00                  | 71      | 57                | 63                 | 61       | 9                       | 09        | 29.43    | 30.17                |                       |         |           |
| 12  | SCT       | NC                   |                        | 10.00             |         | 73                 | 60       | 65        | 64                      | 9        | 28          | 29.13                                       | 29.85   | 12         | SCT       | NC        |                      | 10.00                  | 72      | 58                | 63                 | 61       | 13                      | 12        | 29.45    | 30.19                |                       |         |           |
| 15  | SCT       | NC                   |                        | 10.00             |         | 77                 | 57       | 65        | 50                      | 10       | 22          | 29.11                                       | 29.83   | 15         | SCT       | NC        |                      | 10.00                  | 71      | 56                | 62                 | 59       | 13                      | 11        | 29.40    | 30.15                |                       |         |           |
| 18  | FEW       | NC                   |                        | 10.00             |         | 76                 | 53       | 62        | 45                      | 10       | 25          | 29.11                                       | 29.84   | 18         | FEW       | NC        |                      | 10.00                  | 69      | 57                | 62                 | 66       | 9                       | 13        | 29.37    | 30.11                |                       |         |           |
| 21  | CLR       | NC                   |                        | 10.00             |         | 68                 | 57       | 61        | 68                      | 8        | 21          | 29.14                                       | 29.88   | 21         | FEW       | NC        |                      | 10.00                  | 66      | 58                | 61                 | 75       | 7                       | 15        | 29.40    | 30.14                |                       |         |           |
| 24  | CLR       | NC                   |                        | 10.00             |         | 64                 | 58       | 60        | 81                      | 6        | 21          | 29.16                                       | 29.89   | 24         | SCT       | NC        |                      | 10.00                  | 66      | 60                | 62                 | 81       | 7                       | 15        | 29.37    | 30.11                |                       |         |           |
| Sunrise: 0457      Aug 15      Sunset: 1855 |           |                      |                        |                   |         |                    |          |           |                         |          |             | Sunrise: 0504      Aug 21      Sunset: 1846 |         |            |           |           |                      |                        |         |                   |                    |          |                         |           |          |                      |                       |         |           |
| 03  | CLR       | NC                   |                        | 10.00             | BR      | 62                 | 57       | 59        | 84                      | 8        | 20          | 29.16                                       | 29.89   | 03         | OVC       | 230       |                      | 10.00                  | 64      | 61                | 62                 | 90       | 0                       | 00        | 29.36    | 30.10                |                       |         |           |
| 06  | CLR       | NC                   |                        | 6.00              |         | 63                 | 59       | 61        | 87                      | 8        | 22          | 29.18                                       | 29.91   | 06         | BKN       | 065       |                      | 10.00                  | 69      | 63                | 65                 | 81       | 7                       | 17        | 29.36    | 30.10                |                       |         |           |
| 09  | FEW       | NC                   |                        | 10.00             |         | 73                 | 63       | 67        | 71                      | 15       | 22          | 29.19                                       | 29.92   | 09         | BKN       | 060       |                      | 10.00                  | 74      | 65                | 68                 | 74       | 15                      | 17        | 29.31    | 30.05                |                       |         |           |
| 12  | SCT       | NC                   |                        | 10.00             |         | 80                 | 61       | 68        | 52                      | 21       | 20          | 29.13                                       | 29.86   | 12         | BKN       | 250       |                      | 10.00                  | 79      | 68                | 72                 | 69       | 14                      | 16        | 29.29    | 30.01                |                       |         |           |
| 15  | SCT       | NC                   |                        | 10.00             |         | 84                 | 64       | 71        | 51                      | 23       | 21          | 29.08                                       | 29.81   | 15         | BKN       | 150       |                      | 10.00                  | 83      | 71                | 75                 | 67       | 16                      | 16        | 29.21    | 29.94                |                       |         |           |
| 18  | SCT       | NC                   |                        | 10.00             |         | 81                 | 66       | 71        | 61                      | 17       | 22          | 29.09                                       | 29.82   | 18         | OVC       | 180       | 5.00                 | HZ                     | 81      | 73                | 75                 | 77       | 12                      | 17        | 29.17    | 29.89                |                       |         |           |
| 21  | SCT       | NC                   |                        | 10.00             |         | 77                 | 67       | 70        | 71                      | 12       | 23          | 29.13                                       | 29.85   | 21         | OVC       | 039       | 10.00                | VCTS -RA               | 72      | 70                | 71                 | 94       | 14                      | 22        | 29.18    | 29.91                |                       |         |           |
| 24  | OVC       | 055                  |                        | 10.00             |         | 75                 | 68       | 70        | 79                      | 7        | 22          | 29.16                                       | 29.88   | 24         | OVC       | 048       | 10.00                | -TSRA                  | 72      | 70                | 71                 | 94       | 15                      | 22        | 29.16    | 29.88                |                       |         |           |
| Sunrise: 0459      Aug 16      Sunset: 1854 |           |                      |                        |                   |         |                    |          |           |                         |          |             | Sunrise: 0505      Aug 22      Sunset: 1844 |         |            |           |           |                      |                        |         |                   |                    |          |                         |           |          |                      |                       |         |           |
| 03  | BKN       | 240                  |                        | 10.00             |         | 73                 | 67       | 69        | 81                      | 9        | 30          | 29.19                                       | 29.91   | 03         | OVC       | 055       | 10.00                | -TSRA                  | 73      | 70                | 71                 | 90       | 13                      | 23        | 29.16    | 29.88                |                       |         |           |
| 06  | BKN       | 200                  |                        | 10.00             |         | 70                 | 62       | 65        | 76                      | 8        | 31          | 29.27                                       | 29.99   | 06         | OVC       | 034       | 6.00                 | RA BR                  | 71      | 70                | 70                 | 96       | 10                      | 24        | 29.22    | 29.94                |                       |         |           |
| 09  | SCT       | NC                   |                        | 10.00             |         | 77                 | 56       | 64        | 48                      | 6        | 32          | 29.31                                       | 30.04   | 09         | OVC       | 019       | 10.00                | -RA                    | 71      | 70                | 70                 | 96       | 8                       | 25        | 29.28    | 30.01                |                       |         |           |
| 12  | BKN       | 250                  |                        | 10.00             |         | 80                 | 54       | 64        | 41                      | 3        | VR          | 29.31                                       | 30.05   | 12         | OVC       | 003       | 0.50                 | BR                     | 65      | 64                | 64                 | 97       | 16                      | 02        | 29.32    | 30.06                |                       |         |           |
| 15  | BKN       | 240                  |                        | 10.00             |         | 78                 | 61       | 67        | 56                      | 13       | 15          | 29.28                                       | 30.00   | 15         | OVC       | 005       | 1.50                 | BR                     | 64      | 63                | 63                 | 96       | 12                      | 02        | 29.31    | 30.05                |                       |         |           |
| 18  | OVC       | 220                  |                        | 10.00             |         | 75                 | 63       | 67        | 66                      | 12       | 17          | 29.28                                       | 30.01   | 18         | OVC       | 007       | 3.00                 |                        | 64      | 63                | 63                 | 96       | 13                      | 03        | 29.31    | 30.05                |                       |         |           |
| 21  | OVC       | 180                  |                        | 7.00              |         | 71                 | 68       | 69        | 90                      | 9        | 16          | 29.25                                       | 29.98   | 21         | OVC       | 009       | 10.00                |                        | 65      | 62                | 63                 | 90       | 9                       | 02        | 29.34    | 30.08                |                       |         |           |
| 24  | BKN       | 006                  |                        | 5.00              | BR      | 70                 | 68       | 69        | 93                      | 9        | 18          | 29.20                                       | 29.93   | 24         | OVC       | 003       | 1.25                 | BR                     | 64      | 63                | 63                 | 96       | 10                      | 02        | 29.31    | 30.04                |                       |         |           |
| Sunrise: 0460      Aug 17      Sunset: 1852 |           |                      |                        |                   |         |                    |          |           |                         |          |             | Sunrise: 0506      Aug 23      Sunset: 1843 |         |            |           |           |                      |                        |         |                   |                    |          |                         |           |          |                      |                       |         |           |
| 03  | FEW       | NC                   |                        | 4.00              | BR      | 71                 | 69       | 70        | 94                      | 9        | 17          | 29.13                                       | 29.85   | 03         | OVC       | 003       | 2.00                 | BR                     | 64      | 63                | 63                 | 96       | 3                       | 35        | 29.28    | 30.02                |                       |         |           |
| 06  | BKN       | 140                  |                        | 10.00             |         | 73                 | 68       | 70        | 84                      | 16       | 23          | 29.17                                       | 29.89   | 06         | OVC       | 001       | 0.25                 | FG                     | 66      | 66                | 66                 | 100      | 5                       | 05        | 29.27    | 30.01                |                       |         |           |
| 09  | OVC       | 180                  |                        | 9.00              |         | 74                 | 71       | 72        | 91                      | 20       | 20          | 29.03                                       | 29.76   | 09         | OVC       | 005       | 2.00                 | BR                     | 70      | 68                | 69                 | 93       | 9                       | 08        | 29.24    | 29.98                |                       |         |           |
| 12  | BKN       | 220                  |                        | 10.00             |         | 82                 | 70       | 74        | 67                      | 18       | 25          | 29.03                                       | 29.75   | 12         | OVC       | 009       | 2.00                 | BR                     | 70      | 68                | 69                 | 93       | 3                       | 09        | 29.25    | 29.98                |                       |         |           |
| 15  | BKN       | 250                  |                        | 10.00             |         | 86                 | 65       | 72        | 50                      | 24       | 24          | 29.01                                       | 29.73   | 15         | OVC       | 060       | 2.50                 | BR                     | 71      | 68                | 69                 | 90       | 7                       | 03        | 29.20    | 29.93                |                       |         |           |
| 18  | SCT       | NC                   |                        | 10.00             |         | 79                 | 56       | 65        | 45                      | 14       | 27          | 29.07                                       | 29.79   | 18         | OVC       | 002       | 0.50                 | BR                     | 65      | 65                | 65                 | 100      | 7                       | 04        | 29.18    | 29.91                |                       |         |           |
| 21  | SCT       | NC                   |                        | 10.00             |         | 70                 | 57       | 62        | 64                      | 10       | 28          | 29.17                                       | 29.89   | 21         | OVC       | 027       | 3.00                 | BR                     | 67      | 66                | 66                 | 97       | 5                       | 07        | 29.18    | 29.91                |                       |         |           |
| 24  | CLR       | NC                   |                        | 10.00             |         | 64                 | 51       | 57        | 63                      | 8        | 27          | 29.21                                       | 29.93   | 24         | OVC       | 003       | 2.00                 | BR                     | 67      | 65                | 66                 | 93       | 3                       | 34        | 29.19    | 29.92                |                       |         |           |
| Sunrise: 0501      Aug 18      Sunset: 1851 |           |                      |                        |                   |         |                    |          |           |                         |          |             | Sunrise: 0507      Aug 24      Sunset: 1841 |         |            |           |           |                      |                        |         |                   |                    |          |                         |           |          |                      |                       |         |           |
| 03  | CLR       | NC                   |                        | 10.00             |         | 59                 | 49       | 54        | 69                      | 7        | 29          | 29.22                                       | 29.95   | 03         | OVC       | 009       | 6.00                 | BR                     | 67      | 65                | 66                 | 93       | 6                       | 02        | 29.17    | 29.90                |                       |         |           |
| 06  | FEW       | NC                   |                        | 10.00             |         | 60                 | 47       | 53        | 62                      | 12       | 30          | 29.24                                       | 29.97   | 06         | BKN       | 090       | 2.50                 | BR BCFG                | 66      | 65                | 65                 | 96       | 0                       | 00        | 29.20    | 29.93                |                       |         |           |
| 09  | FEW       | NC                   |                        | 10.00             |         | 68                 | 47       | 56        | 47                      | 10       | 32          | 29.24                                       | 29.97   | 09         | BKN       | 070       | 7.00                 |                        | 72      | 66                | 68                 | 82       | 8                       | 01        | 29.21    | 29.93                |                       |         |           |
| 12  | CLR       | NC                   |                        | 10.00             |         | 73                 | 48       | 59        | 41                      | 9        | 26          | 29.24                                       | 29.97   | 12         | BKN       | 045       | 10.00                |                        | 77      | 66                | 70                 | 69       | 3                       | VR        | 29.23    | 29.96                |                       |         |           |
| 15  | CLR       | NC                   |                        | 10.00             |         | 76                 | 49       | 60        | 39                      | 10       | 24          | 29.19                                       | 29.92   | 15         | FEW       | NC        | 10.00                |                        | 78      | 67                | 71                 | 69       | 7                       | 09        | 29.21    | 29.93                |                       |         |           |
| 18  | FEW       | NC                   |                        | 10.00             |         | 70                 | 56       | 62        | 61                      | 8        | 14          | 29.17                                       | 29.91   | 18         | SCT       | NC        | 10.00                |                        | 76      | 66                | 69                 | 72       | 5                       | 16        | 29.21    | 29.93                |                       |         |           |
| 21  | OVC       | 095                  |                        | 10.00             |         | 68                 | 57       | 61        | 68                      | 8        | 17          | 29.19                                       | 29.92   | 21         | BKN       | 140       | 10.00                |                        | 74      | 63                | 67                 | 69       | 3                       | 28        | 29.24    | 29.97                |                       |         |           |
| 24  | OVC       | 065                  |                        | 10.00             |         | 68                 | 57       | 61        | 68                      | 6        | 23          | 29.17                                       | 29.90   | 24         | OVC       | 100       | 10.00                |                        | 73      | 63                | 67                 | 71       | 5                       | 30        | 29.25    | 29.97                |                       |         |           |

## MILWAUKEE, WI

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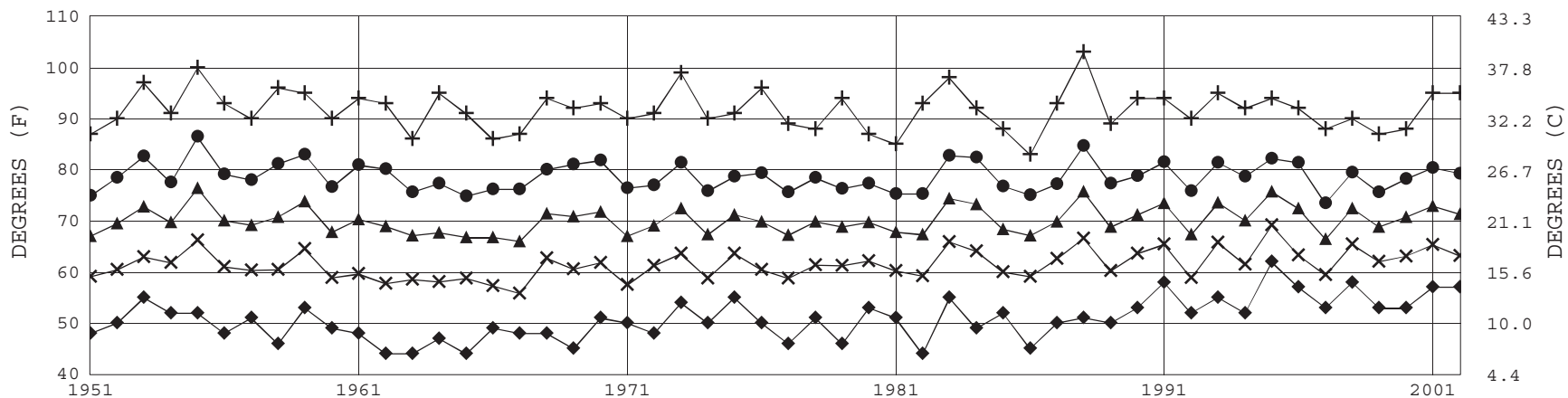
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WBAN # 14839

| Hour (LST)   |            |                   |                        | SATELLITE            | Weather  | Temperature °F     |                      |           | Relative Humidity (PCT) | Wind             |             | Pressure (Inches,Hg)     |         | Hour (LST) |           |           |                      | SATELLITE              | Weather | Temperature °F       |                    |          | Relative Humidity (PCT) | Wind      |          | Pressure (Inches,Hg) |                          |         |           |
|--|------------|-------------------|------------------------|----------------------|----------|--------------------|----------------------|-----------|-------------------------|------------------|-------------|--------------------------|---------|------------|-----------|-----------|----------------------|------------------------|---------|----------------------|--------------------|----------|-------------------------|-----------|----------|----------------------|--------------------------|---------|-----------|
|  | Sky Cover  | Ceiling 100'S OFF | Observation Time (LST) | Eff CLD AMT<br>Oktas |          | Visibility (Miles) | Dry Bulb             | Dew Point |                         | Wet Bulb         | Speed (MPH) | Direction<br>TENS OF DEG | Station |            | Sea Level | Sky Cover | Ceiling 100'S OFF    | Observation Time (LST) |         | Eff CLD AMT<br>Oktas | Visibility (Miles) | Dry Bulb |                         | Dew Point | Wet Bulb | Speed (MPH)          | Direction<br>TENS OF DEG | Station | Sea Level |
|  |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 03   | SCT        | NC                |                        |                      | 10.00    |                    | 67                   | 64        | 65                      | 91               | 3           | 21                       | 29.24   | 29.96      | 03        | FEW       | NC                   |                        |         | 10.00                |                    | 67       | 64                      | 65        | 91       | 6                    | 13                       | 29.55   | 30.29     |
| 06   | CLR        | NC                |                        |                      | 10.00    |                    | 65                   | 63        | 64                      | 93               | 0           | 00                       | 29.27   | 30.00      | 06        | SCT       | NC                   |                        |         | 5.00                 | BR                 | 65       | 63                      | 64        | 93       | 0                    | 00                       | 29.58   | 30.32     |
| 09   | FEW        | NC                |                        |                      | 10.00    |                    | 71                   | 67        | 68                      | 87               | 9           | 04                       | 29.30   | 30.03      | 09        | CLR       | NC                   |                        |         | 10.00                |                    | 74       | 64                      | 68        | 71       | 8                    | 12                       | 29.60   | 30.34     |
| 12   | SCT        | NC                |                        |                      | 10.00    |                    | 74                   | 70        | 71                      | 88               | 13          | 05                       | 29.30   | 30.03      | 12        | SCT       | NC                   |                        |         | 10.00                |                    | 75       | 66                      | 69        | 74       | 10                   | 11                       | 29.57   | 30.31     |
| 15   | FEW        | NC                |                        |                      | 10.00    |                    | 73                   | 68        | 70                      | 84               | 10          | 06                       | 29.27   | 30.00      | 15        | BKN       | 220                  |                        |         | 10.00                |                    | 74       | 65                      | 68        | 74       | 9                    | 13                       | 29.52   | 30.26     |
| 18   | CLR        | NC                |                        |                      | 10.00    |                    | 69                   | 65        | 66                      | 87               | 5           | 05                       | 29.27   | 30.00      | 18        | SCT       | NC                   |                        |         | 10.00                |                    | 72       | 64                      | 67        | 76       | 8                    | 12                       | 29.50   | 30.24     |
| 21   | FEW        | NC                |                        |                      | 10.00    |                    | 67                   | 63        | 64                      | 87               | 0           | 00                       | 29.29   | 30.02      | 21        | CLR       | NC                   |                        |         | 7.00                 |                    | 69       | 64                      | 66        | 84       | 0                    | 00                       | 29.48   | 30.22     |
| 24   | FEW        | NC                |                        |                      | 10.00    |                    | 65                   | 60        | 62                      | 84               | 0           | 00                       | 29.30   | 30.03      | 24        | FEW       | NC                   |                        |         | 3.00                 | BR                 | 68       | 66                      | 67        | 93       | 0                    | 00                       | 29.45   | 30.19     |
| 3-Hourly Observation Notes   |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8. |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.   |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| NC= No ceiling detected.   |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| & = Original observation contained additional weather elements.  |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| See page 3 for additional notes.   |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| SUMMARY BY HOUR  |            |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| Hour (LST)   | AVERAGES   |                   |                        |                      |          |                    |                      |           |                         |                  |             |                          |         |            |           |           | Resultant Wind (MPH) |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
|  | Ceilometer | Eff CLD AMT       | Dry Bulb               | Dew Point            | Wet Bulb | Relative Humidity  | Pressure (Inches,Hg) |           | Visibility (Miles)      | Wind Speed (MPH) |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
|  |            |                   |                        |                      |          |                    | Station              | Sea Level |                         |                  |             |                          |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 01   |            |                   | 67                     | 62                   | 64       | 84                 | 29.31                | 30.04     | 9.01                    | 6                | 1           | 28                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 02   |            |                   | 66                     | 62                   | 64       | 86                 | 29.31                | 30.04     | 8.95                    | 6                | 1           | 27                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 03   |            |                   | 66                     | 62                   | 63       | 86                 | 29.31                | 30.04     | 8.71                    | 6                | 1           | 27                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 04   |            |                   | 66                     | 61                   | 63       | 87                 | 29.31                | 30.05     | 8.76                    | 6                | 1           | 28                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 05   |            |                   | 65                     | 61                   | 63       | 86                 | 29.32                | 30.06     | 8.74                    | 5                | 1           | 28                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 06   |            |                   | 66                     | 61                   | 63       | 86                 | 29.34                | 30.07     | 8.51                    | 6                | 2           | 27                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 07   |            |                   | 69                     | 62                   | 65       | 81                 | 29.34                | 30.08     | 8.75                    | 7                | 2           | 22                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 08   |            |                   | 71                     | 63                   | 66       | 76                 | 29.35                | 30.08     | 9.03                    | 8                | 1           | 20                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 09   |            |                   | 73                     | 63                   | 67       | 71                 | 29.35                | 30.08     | 9.52                    | 10               | 1           | 13                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 10   |            |                   | 74                     | 63                   | 67       | 69                 | 29.35                | 30.08     | 9.21                    | 9                | 2           | 13                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 11   |            |                   | 76                     | 63                   | 68       | 66                 | 29.34                | 30.08     | 9.30                    | 9                | 2           | 13                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 12   |            |                   | 77                     | 63                   | 68       | 64                 | 29.34                | 30.07     | 9.37                    | 11               | 3           | 11                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 13   |            |                   | 77                     | 63                   | 68       | 64                 | 29.33                | 30.06     | 9.31                    | 11               | 3           | 11                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 14   |            |                   | 77                     | 63                   | 68       | 64                 | 29.32                | 30.05     | 9.29                    | 11               | 4           | 13                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 15   |            |                   | 77                     | 63                   | 68       | 63                 | 29.31                | 30.04     | 9.48                    | 12               | 4           | 14                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 16   |            |                   | 77                     | 63                   | 68       | 64                 | 29.30                | 30.04     | 9.44                    | 12               | 4           | 14                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 17   |            |                   | 75                     | 62                   | 67       | 65                 | 29.30                | 30.03     | 9.23                    | 11               | 3           | 13                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 18   |            |                   | 74                     | 62                   | 66       | 69                 | 29.30                | 30.03     | 9.15                    | 10               | 3           | 13                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 19   |            |                   | 72                     | 62                   | 66       | 73                 | 29.30                | 30.04     | 8.97                    | 8                | 0           | 0                        |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 20   |            |                   | 70                     | 62                   | 65       | 77                 | 29.32                | 30.05     | 9.18                    | 6                | 1           | 22                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 21   |            |                   | 70                     | 62                   | 65       | 76                 | 29.32                | 30.06     | 9.23                    | 6                | 1           | 25                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 22   |            |                   | 69                     | 62                   | 65       | 80                 | 29.33                | 30.06     | 9.03                    | 6                | 0           | 0                        |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 23   |            |                   | 68                     | 62                   | 65       | 81                 | 29.33                | 30.06     | 8.77                    | 6                | 0           | 0                        |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |
| 24   |            |                   | 68                     | 62                   | 64       | 82                 | 29.32                | 30.06     | 8.75                    | 5                | 1           | 27                       |         |            |           |           |                      |                        |         |                      |                    |          |                         |           |          |                      |                          |         |           |



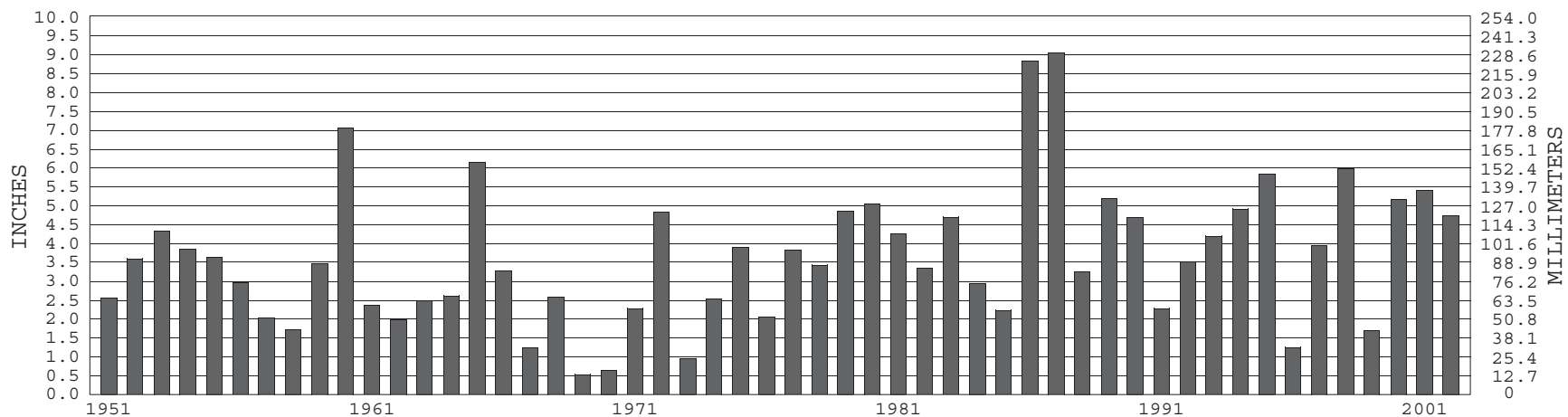
# MILWAUKEE, WI AUGUST TEMPERATURES



+ Extreme Max.    ● Mean Max.    ▲ Mean    × Mean Min.    ◆ Extreme Min.

Long-Term (1951-2002) Mean: 70.1    1961-1990 Normal: 70.6

# MILWAUKEE, WI AUGUST PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 3.66

1961-1990 Normal: 4.03



AUGUST 2002

MILWAUKEE, WI

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

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