



# SEPTEMBER 2008 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE  
NEW CASTLE COUNTY AIRPORT (KILG)  
Lat:39° 40'N Long: 75° 36'W Elev (Ground) 75 Feet  
Time Zone : EASTERN WBAN: 13781 ISSN#: 0198-117X



| Date<br>1 | Temperature °F |              |              |                         |                        |                          | Deg Days<br>BASE 65° |              | WEATHER<br>10    | SNOW/ICE<br>ON GND(IN) |             | PRECIPITATION<br>ON GND(IN) |             | PRESSURE<br>(INCHES OF HG) |                            | WIND SPEED = MPH<br>DIR = TENS OF DEGREES |               |                        |         |    |       |    |    | Date<br>24 |
|-----------|----------------|--------------|--------------|-------------------------|------------------------|--------------------------|----------------------|--------------|------------------|------------------------|-------------|-----------------------------|-------------|----------------------------|----------------------------|---|---------------|------------------------|---------|----|-------|----|----|------------|
|           | MAXIMUM<br>2   | MINIMUM<br>3 | AVERAGE<br>4 | DEP FROM<br>NORMAL<br>5 | AVERAGE<br>DEW PT<br>6 | AVERAGE<br>WET BULB<br>7 | HEATING<br>8         | COOLING<br>9 |                  | 0700<br>LST            | 1300<br>LST | 2400<br>LST                 | 2400<br>LST | AVERAGE<br>STATION<br>15   | AVERAGE<br>SEA LEVEL<br>16 | RESULTANT<br>SPEED<br>17                  | RES DIR<br>18 | AVERAGE<br>SPEED<br>19 | MAXIMUM |    |       |    |    |            |
|           |                |              |              |                         |                        |                          |                      |              |                  |                        |             |                             |             |                            |                            |   |               |                        | 3-SEC   |    | 2-MIN |    |    |            |
| 20        | 21             | 22           | 23           | 24                      |                        |                          |                      |              |                  |                        |             |                             |             |                            |                            |   |               |                        |         |    |       |    |    |            |
| 01        | 87             | 57           | 72           | 0                       | 53                     | 61                       | 0                    | 7            |                  | 0                      |             | 0.0                         | 0.00        | 30.09                      | 30.17                      | 5.6                                       | 33            | 6.5                    | 16      | 33 | 13    | 33 | 01 |            |
| 02        | 91             | 60           | 76           | 4                       | 56                     | 64                       | 0                    | 11           | TS               | 0                      |             | 0.0                         | 0.00        | 29.98                      | 30.04                      | 4.8                                       | 31            | 6.3                    | 16      | 29 | 13    | 31 | 02 |            |
| 03        | 90             | 63           | 77           | 5                       | 63                     | 68                       | 0                    | 12           | RA               | 0                      |             | 0.0                         | T           | 29.85                      | 29.93                      | 1.6                                       | 16            | 6.2                    | 21      | 16 | 17    | 16 | 03 |            |
| 04        | 92*            | 67           | 80           | 8                       | 66                     | 70                       | 0                    | 15           | BR HZ            | 0                      |             | 0.0                         | 0.00        | 29.88                      | 29.97                      | 5.7                                       | 16            | 6.6                    | 23      | 17 | 20    | 16 | 04 |            |
| 05        | 88             | 71           | 80           | 9                       | 67                     | 70                       | 0                    | 15           | RA BR            | 0                      |             | 0.0                         | 0.59        | 29.95                      | 30.03                      | 8.9                                       | 14            | 9.6                    | 25      | 14 | 22    | 15 | 05 |            |
| 06        | 78             | 72           | 75           | 4                       | 72                     | 73                       | 0                    | 10           | RA FG BR         | 0                      |             | 0.0                         | 2.73        | 29.67                      | 29.75                      | 4.3                                       | 02            | 12.6                   | 33      | 01 | 28*   | 09 | 06 |            |
| 07        | 81             | 64           | 73           | 2                       | 59                     | 64                       | 0                    | 8            |                  | 0                      |             | 0.0                         | 0.00        | 29.88                      | 30.00                      | 7.0                                       | 27            | 8.1                    | 21      | 30 | 16    | 30 | 07 |            |
| 08        | 82             | 61           | 72           | 2                       | 61                     | 65                       | 0                    | 7            | RA               | 0                      |             | 0.0                         | T           | 30.06                      | 30.15                      | 4.5                                       | 15            | 6.7                    | 20      | 16 | 16    | 16 | 08 |            |
| 09        | 77             | 67           | 72           | 2                       | 67                     | 68                       | 0                    | 7            | TS TSRA RA BR HZ | 0                      |             | 0.0                         | 0.31        | 29.93                      | 30.02                      | 3.2                                       | 19            | 6.0                    | 24      | 35 | 21    | 32 | 09 |            |
| 10        | 77             | 60           | 69           | 0                       | 53                     | 60                       | 0                    | 4            |                  | 0                      |             | 0.0                         | 0.00        | 30.11                      | 30.23                      | 4.5                                       | 04            | 7.1                    | 17      | 08 | 15    | 02 | 10 |            |
| 11        | 75             | 61           | 68           | -1                      | 55                     | 60                       | 0                    | 3            |                  | 0                      |             | 0.0                         | 0.00        | 30.24                      | 30.32                      | 7.0                                       | 12            | 9.0                    | 18      | 15 | 16    | 15 | 11 |            |
| 12        | 73             | 65           | 69           | 0                       | 65                     | 67                       | 0                    | 4            | RA BR            | 0                      |             | 0.0                         | 0.39        | 30.06                      | 30.11                      | 6.5                                       | 18            | 7.3                    | 20      | 22 | 14    | 23 | 12 |            |
| 13        | 85             | 70           | 78           | 9                       | 69                     | 72                       | 0                    | 13           | BR               | 0                      |             | 0.0                         | 0.00        | 29.85                      | 29.93                      | 4.4                                       | 28            | 5.6                    | 15      | 28 | 14    | 28 | 13 |            |
| 14        | 91             | 73           | 82*          | 13                      | 72                     | 75                       | 0                    | 17           | BR HZ            | 0                      |             | 0.0                         | 0.00        | 29.71                      | 29.77                      | 7.9                                       | 19            | 8.6                    | 25      | 21 | 21    | 22 | 14 |            |
| 15        | 84             | 69           | 77           | 8                       | 60                     | 67                       | 0                    | 12           |                  | 0                      |             | 0.0                         | 0.00        | 29.73                      | 29.85                      | 10.7                                      | 29            | 13.1                   | 28      | 24 | 22    | 27 | 15 |            |
| 16        | 74             | 56           | 65           | -3                      | 53                     | 58                       | 0                    | 0            |                  | 0                      |             | 0.0                         | 0.00        | 30.03                      | 30.14                      | 6.7                                       | 34            | 7.3                    | 17      | 35 | 15    | 35 | 16 |            |
| 17        | 76             | 53           | 65           | -2                      | 52                     | 58                       | 0                    | 0            |                  | 0                      |             | 0.0                         | 0.00        | 30.06                      | 30.15                      | 4.9                                       | 34            | 5.8                    | 17      | 01 | 13    | 01 | 17 |            |
| 18        | 80             | 53           | 67           | 0                       | 53                     | 59                       | 0                    | 2            | BR               | 0                      |             | 0.0                         | 0.00        | 30.08                      | 30.19                      | 5.5                                       | 36            | 7.1                    | 17      | 07 | 15    | 01 | 18 |            |
| 19        | 71             | 55           | 63           | -4                      | 48                     | 54                       | 2                    | 0            |                  | 0                      |             | 0.0                         | 0.00        | 30.30                      | 30.39                      | 7.9                                       | 06            | 9.2                    | 22      | 05 | 18    | 05 | 19 |            |
| 20        | 73             | 48*          | 61           | -6                      | 50                     | 54                       | 4                    | 0            |                  | 0                      |             | 0.0                         | 0.00        | 30.21                      | 30.28                      | 2.4                                       | 02            | 3.5                    | 14      | 05 | 12    | 05 | 20 |            |
| 21        | 82             | 49           | 66           | 0                       | 55                     | 59                       | 0                    | 1            | BR               | 0                      |             | 0.0                         | 0.00        | 30.14                      | 30.24                      | 1.8                                       | 29            | 3.3                    | 10      | 31 | 8     | 17 | 21 |            |
| 22        | 78             | 58           | 68           | 2                       | 58                     | 62                       | 0                    | 3            | BR HZ            | 0                      |             | 0.0                         | 0.00        | 30.23                      | 30.33                      | 7.8                                       | 05            | 8.6                    | 20      | 04 | 17    | 04 | 22 |            |
| 23        | 73             | 54           | 64           | -1                      | 51                     | 57                       | 1                    | 0            |                  | 0                      |             | 0.0                         | 0.00        | 30.34                      | 30.43                      | 8.9                                       | 05            | 9.6                    | 22      | 07 | 17    | 04 | 23 |            |
| 24        | 72             | 51           | 62           | -3                      | 51                     | 56                       | 3                    | 0            |                  | 0                      |             | 0.0                         | 0.00        | 30.32                      | 30.40                      | 8.0                                       | 05            | 9.0                    | 29      | 06 | 21    | 05 | 24 |            |
| 25        | 66             | 56           | 61*          | -3                      | 53                     | 57                       | 4                    | 0            | RA               | 0                      |             | 0.0                         | 0.06        | 30.23                      | 30.30                      | 17.2                                      | 04            | 17.4                   | 35      | 05 | 26    | 04 | 25 |            |
| 26        | 69             | 59           | 64           | 0                       | 62                     | 64                       | 1                    | 0            | RA BR            | 0                      |             | 0.0                         | 0.01        | 30.02                      | 30.10                      | 15.2                                      | 04            | 15.3                   | 35*     | 03 | 26    | 04 | 26 |            |
| 27        | 75             | 68           | 72           | 9                       | 68                     | 69                       | 0                    | 7            | RA BR VCTS       | 0                      |             | 0.0                         | 0.86        | 29.91                      | 29.99                      | 7.3                                       | 08            | 7.8                    | 16      | 12 | 14    | 12 | 27 |            |
| 28        | 77             | 66           | 72           | 9                       | 67                     | 68                       | 0                    | 7            | RA BR            | 0                      |             | 0.0                         | 0.07        | 29.80                      | 29.88                      | 1.5                                       | 34            | 5.3                    | 15      | 35 | 13    | 32 | 28 |            |
| 29        | 75             | 56           | 66           | 3                       | 58                     | 61                       | 0                    | 1            |                  | 0                      |             | 0.0                         | 0.00        | 29.88                      | 29.97                      | 7.0                                       | 34            | 7.7                    | 17      | 35 | 15    | 34 | 29 |            |
| 30        | 72             | 52           | 62           | 0                       | 57                     | 59                       | 3                    | 0            | TS RA BR VCTS    | 0                      |             | 0.0                         | 0.17        | 29.81                      | 29.87                      | 3.0                                       | 15            | 5.4                    | 16      | 15 | 14    | 15 | 30 |            |

|                    |      |      |   |                                  |      |     |     |  |  |  |  |                        |  |       |       |                          |    |     |                    |                                |  |  |  |
|--------------------|------|------|---|----------------------------------|------|-----|-----|--|--|--|--|------------------------|--|-------|-------|--------------------------|----|-----|--------------------|--------------------------------|--|--|--|
| 78.8               | 60.5 | 69.7 | ☼ | 59.1                             | 63.3 | 0.6 | 5.5 | < MONTHLY AVERAGES   TOTALS >                    |  |  |  | 0.0                    | 5.19   | 30.01 | 30.10 | 2.2                      | 04 | 8.1 | < MONTHLY AVERAGES |                                |  |  |  |
| 1.6                | 2.4  | 2.0  |   | -----DEPARTURE FROM NORMAL ----- |      |     |     |  |  |  |  | 1.18                   | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 |       |       |                          |    |     |                    |                                |  |  |  |
| <b>DEGREE DAYS</b> |      |      |   |                                  |      |     |     | GREATEST 24-HR PRECIPITATION : 3.32 DATE : 05-06 |  |  |  | SEA LEVEL PRESSURE     |  |       |       | DATE TIME                |    |     |                    |                                |  |  |  |
| MONTHLY            |      |      |   |                                  |      |     |     | GREATEST 24-HR SNOWFALL : 0.0 DATE :             |  |  |  | MAXIMUM : 30.47        |  |       |       | 23 1051                  |    |     |                    |                                |  |  |  |
| TOTAL DEPARTURE    |      |      |   |                                  |      |     |     | GREATEST SNOW DEPTH : 0 DATE :                   |  |  |  | MINIMUM : 29.45        |  |       |       | 06 1651                  |    |     |                    |                                |  |  |  |
| SEASON TO DATE     |      |      |   |                                  |      |     |     | NUMBER OF -> DAYS WITH                           |  |  |  | MAXIMUM TEMP >= 90 : 4 |  |       |       | MINIMUM TEMP <= 32 : 0   |    |     |                    | PRECIPITATION >= 0.01 INCH : 9 |  |  |  |
| HEATING : 18 -31   |      |      |   |                                  |      |     |     | THUNDERSTORMS : 3                                |  |  |  | MAXIMUM TEMP <= 32 : 0 |  |       |       | MINIMUM TEMP <= 0 : 0    |    |     |                    | PRECIPITATION >= 0.10 INCH : 6 |  |  |  |
| COOLING : 166 -31  |      |      |   |                                  |      |     |     |  |  |  |  | HEAVY FOG : 0          |  |       |       | SNOWFALL >= 1.0 INCH : 0 |    |     |                    |                                |  |  |  |

SEPTEMBER 2008  
 WILMINGTON, DE

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE (KILG)  
SEPTEMBER 2008

WBAN # 13781

| Date | FOR HOUR (LST) ENDING AT |      |      |      |      |   |   |      |   |    |      |      | Date | FOR HOUR (LST) ENDING AT |      |      |      |      |      |      |      |      |      |      |      | Date | Sum of Hourly Data | 2400 LST Water Equiv. |
|------|--------------------------|------|------|------|------|---|---|------|---|----|------|------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|-----------------------|
|      | 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   |                          |      |      |      |      |   |   |      |   |    |      |      | 01   |                          |      |      |      |      |      |      |      |      |      |      | 01   | 0.00 | 0.00               |                       |
| 02   |                          |      |      |      |      |   |   |      |   |    |      |      | 02   |                          |      |      |      |      |      |      |      |      |      |      | 02   | 0.00 | 0.00               |                       |
| 03   |                          |      |      |      |      |   |   |      |   |    |      |      | 03   |                          |      |      |      |      |      |      |      |      | T    |      | 03   | T    | T                  |                       |
| 04   |                          |      |      |      |      |   |   |      |   |    |      |      | 04   |                          |      |      |      |      |      |      |      |      |      |      | 04   | 0.00 | 0.00               |                       |
| 05   |                          |      |      |      |      |   |   |      |   |    |      |      | 05   |                          |      |      |      |      |      |      |      | T    | 0.48 | 0.11 | 05   | 0.59 | 0.59               |                       |
| 06   | T                        |      |      |      |      |   |   | 0.02 | T | T  | 0.05 | 0.17 | 06   | 0.73                     | 0.11 | 0.14 | 0.76 | 0.39 | 0.35 | 0.01 | T    |      |      | 06   | 2.73 | 2.73 |                    |                       |
| 07   |                          |      |      |      |      |   |   |      |   |    |      |      | 07   |                          |      |      |      |      |      |      |      |      |      |      | 07   | 0.00 | 0.00               |                       |
| 08   |                          |      |      |      |      |   |   |      |   |    |      |      | 08   |                          | T    |      |      |      |      |      |      |      |      |      | 08   | T    | T                  |                       |
| 09   |                          |      |      |      |      |   |   |      |   |    |      |      | 09   |                          | T    | T    |      |      |      |      |      |      | 0.03 | 0.27 | 09   | 0.31 | 0.31               |                       |
| 10   |                          |      |      |      |      |   |   |      |   |    |      |      | 10   |                          |      |      |      |      |      |      |      |      |      |      | 10   | 0.00 | 0.00               |                       |
| 11   |                          |      |      |      |      |   |   |      |   |    |      |      | 11   |                          |      |      |      |      |      |      |      |      |      |      | 11   | 0.00 | 0.00               |                       |
| 12   |                          |      |      |      |      |   |   |      |   |    |      |      | 12   | T                        | T    | 0.14 | 0.04 | 0.19 | 0.01 | T    | 0.01 |      |      | 12   | 0.39 | 0.39 |                    |                       |
| 13   |                          |      |      |      |      |   |   |      |   |    |      |      | 13   |                          |      |      |      |      |      |      |      |      |      |      | 13   | 0.00 | 0.00               |                       |
| 14   |                          |      |      |      |      |   |   |      |   |    |      |      | 14   |                          |      |      |      |      |      |      |      |      |      |      | 14   | 0.00 | 0.00               |                       |
| 15   |                          |      |      |      |      |   |   |      |   |    |      |      | 15   |                          |      |      |      |      |      |      |      |      |      |      | 15   | 0.00 | 0.00               |                       |
| 16   |                          |      |      |      |      |   |   |      |   |    |      |      | 16   |                          |      |      |      |      |      |      |      |      |      |      | 16   | 0.00 | 0.00               |                       |
| 17   |                          |      |      |      |      |   |   |      |   |    |      |      | 17   |                          |      |      |      |      |      |      |      |      |      |      | 17   | 0.00 | 0.00               |                       |
| 18   |                          |      |      |      |      |   |   |      |   |    |      |      | 18   |                          |      |      |      |      |      |      |      |      |      |      | 18   | 0.00 | 0.00               |                       |
| 19   |                          |      |      |      |      |   |   |      |   |    |      |      | 19   |                          |      |      |      |      |      |      |      |      |      |      | 19   | 0.00 | 0.00               |                       |
| 20   |                          |      |      |      |      |   |   |      |   |    |      |      | 20   |                          |      |      |      |      |      |      |      |      |      |      | 20   | 0.00 | 0.00               |                       |
| 21   |                          |      |      |      |      |   |   |      |   |    |      |      | 21   |                          |      |      |      |      |      |      |      |      |      |      | 21   | 0.00 | 0.00               |                       |
| 22   |                          |      |      |      |      |   |   |      |   |    |      |      | 22   |                          |      |      |      |      |      |      |      |      |      |      | 22   | 0.00 | 0.00               |                       |
| 23   |                          |      |      |      |      |   |   |      |   |    |      |      | 23   |                          |      |      |      |      |      |      |      |      |      |      | 23   | 0.00 | 0.00               |                       |
| 24   |                          |      |      |      |      |   |   |      |   |    |      |      | 24   |                          |      |      |      |      |      |      |      |      |      |      | 24   | 0.00 | 0.00               |                       |
| 25   |                          |      |      |      |      |   |   |      |   |    |      |      | 25   | T                        | T    |      |      | T    | 0.01 | 0.01 | 0.01 | 0.03 | T    | T    | T    | 25   | 0.06               | 0.06                  |
| 26   | T                        | T    |      |      |      | T | T |      |   |    |      |      | 26   |                          |      |      |      |      |      |      |      | T    | T    | T    | 26   | 0.01 | 0.01               |                       |
| 27   | 0.06                     | T    | 0.01 | 0.03 | 0.01 | T |   |      |   |    |      |      | 27   | T                        |      | T    |      |      |      | 0.01 | T    |      |      | 27   | 0.86 | 0.86 |                    |                       |
| 28   | 0.02                     | 0.03 | T    |      |      |   |   |      |   |    |      |      | 28   |                          |      | T    | 0.01 | 0.01 |      | T    |      |      |      | 28   | 0.07 | 0.07 |                    |                       |
| 29   |                          |      |      |      |      |   |   |      |   |    |      |      | 29   |                          |      |      |      |      |      |      |      |      |      |      | 29   | 0.00 | 0.00               |                       |
| 30   |                          |      |      |      |      |   |   |      |   |    |      |      | 30   |                          |      |      |      |      |      |      |      | 0.11 | 0.05 | 0.01 | T    | 30   | 0.17               | 0.17                  |

\* Indicates sum of Hourly and Daily disagree.

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes)  | 5    | 10   | 15   | 20   | 30   | 45   | 60   | 80   | 100  | 120  | 150  | 180  |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | 0.27 | 0.48 | 0.63 | 0.68 | 0.72 | 0.75 | 0.78 | 0.97 | 1.07 | 1.21 | 1.45 | 1.59 |
| Ending Date            | 05   | 27   | 27   | 27   | 27   | 28   | 06   | 06   | 06   | 06   | 06   | 06   |
| Ending Time (Hr/Min)   | 2232 | 2339 | 2340 | 2345 | 2348 | 0008 | 1554 | 1613 | 1625 | 1648 | 1725 | 1747 |

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

# REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = 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.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

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

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

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

NORMALS ARE FOR THE YEARS 1971-2000

## WEATHER NOTATIONS

| QUALIFIER          | WEATHER PHENOMENA                 |                    |                                    |
|--------------------|-----------------------------------|--------------------|------------------------------------|
| DESCRIPTOR         | PRECIPITATION                     | OBSCURATION        | OTHER                              |
| BC Patches         | DZ Drizzle                        | BR Mist            | DS Duststorm                       |
| BL Blowing         | GR Hail                           | DU Widespread Dust | FC Funnel Cloud                    |
| DR Low Drifting    | GS Small Hail and/or Snow Pellets | FG Fog             | +FC Tornado Waterspout             |
| FZ Freezing        | IC Ice Crystals                   | FU Smoke           | PO Well-Developed Dust/Sand Whirls |
| MI Shallow         | PL Ice Pellets                    | HZ Haze            |                                    |
| PR Partial         | RA Rain                           | PY Spray           | SQ Squalls                         |
| SH Shower(s)       | SG Snow Grains                    | SA Sand            | SS Sandstorm                       |
| TS Thunderstorm    | SN Snow                           | VA Volcanic Ash    | GL Glaze                           |
| VC In the Vicinity | UP Unkown Precipitation           |                    |                                    |

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    '' = Moderate    '-' = Light

# WILMINGTON, DE SEPTEMBER 2008

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

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.

### ADDITIONAL NOTES:

Station Augmentation-BEAR 2 SW COOP  
Lat/Lon:39.59167/-75.7325 Elevation:80  
Distance:4 MI Dir:SE  
Augmented Elements:Precip, Snow  
Equipment:SRG, Snowfall

| Date                                       | SUNSHINE      |                  | CLOUDINESS (OKTAS) |           |                  |           | VISIBILITY (MILES) |         | RESERVED |
|--|---------------|------------------|--------------------|-----------|------------------|-----------|--------------------|---------|----------|
|  | TOTAL MINUTES | PERCENT POSSIBLE | SR-SS              |           | MN-MN            |           | MINIMUM            | MAXIMUM |          |
|  |               |                  | Sky Cover          | Satellite | Sky Cover        | Satellite |                    |         |          |
| 01   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 02   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 03   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 04   |               |                  |                    |           |                  |           | 2.00               | 10.00   |          |
| 05   |               |                  |                    |           |                  |           | 3.00               | 10.00   |          |
| 06   |               |                  |                    |           |                  |           | 0.75               | 10.00   |          |
| 07   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 08   |               |                  |                    |           |                  |           | 8.00               | 10.00   |          |
| 09   |               |                  |                    |           |                  |           | 6.00               | 10.00   |          |
| 10   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 11   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 12   |               |                  |                    |           |                  |           | 1.75               | 10.00   |          |
| 13   |               |                  |                    |           |                  |           | 4.00               | 10.00   |          |
| 14   |               |                  |                    |           |                  |           | 4.00               | 10.00   |          |
| 15   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 16   |               |                  |                    |           |                  |           | 9.00               | 10.00   |          |
| 17   |               |                  |                    |           |                  |           | 9.00               | 10.00   |          |
| 18   |               |                  |                    |           |                  |           | 5.00               | 10.00   |          |
| 19   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 20   |               |                  |                    |           |                  |           | 9.00               | 10.00   |          |
| 21   |               |                  |                    |           |                  |           | 3.00               | 10.00   |          |
| 22   |               |                  |                    |           |                  |           | 4.00               | 10.00   |          |
| 23   |               |                  |                    |           |                  |           | 9.00               | 10.00   |          |
| 24   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 25   |               |                  |                    |           |                  |           | 9.00               | 10.00   |          |
| 26   |               |                  |                    |           |                  |           | 1.00               | 10.00   |          |
| 27   |               |                  |                    |           |                  |           | 2.50               | 10.00   |          |
| 28   |               |                  |                    |           |                  |           | 2.00               | 10.00   |          |
| 29   |               |                  |                    |           |                  |           | 10.00              | 10.00   |          |
| 30   |               |                  |                    |           |                  |           | 5.00               | 10.00   |          |
| MONTHLY AVGS                               |               |                  |                    |           |                  |           | 6.57               | 10.00   |          |
| <b>SUNSHINE (Minutes)</b>                  |               |                  |                    |           |                  |           |                    |         |          |
| Total : 0                                  |               |                  |                    |           | Possible : 22379 |           |                    |         |          |
| Percent Possible : 0                       |               |                  |                    |           |                  |           |                    |         |          |
| <b>NUMBER OF DAYS WITH : SKY CONDITION</b> |               |                  |                    |           |                  |           |                    |         |          |
| Clear                                      |               | Partly CLDY      |                    |           | Cloudy           |           |                    | Missing |          |
| <b>MINIMUM VISIBILITY (MILES)</b>          |               |                  |                    |           |                  |           |                    |         |          |
| <= .25                                     |               |                  | <= 3.0             |           |                  |           | >= 7.0             |         |          |
| 0  |               |                  | 8                  |           |                  |           | 16                 |         |          |

# OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE  
SEPTEMBER 2008 KILG

WBAN # 13781

| HOUR (LST)           | SKY COVER | CEILING<br>100's of FT. | SATELLITE                 |                      | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F |           |          | WIND                       |             | PRESSURE<br>(INCHES, HG) |         | HOUR (LST)           | SKY COVER | CEILING<br>100's of FT. | SATELLITE    |                           | VISIBILITY<br>(MILES) | WEATHER | TEMPERATURE<br>°F    |          |           | WIND     |                            | PRESSURE<br>(INCHES, HG) |                          |         |              |
|----------------------|-----------|-------------------------|---------------------------|----------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|-------------|--------------------------|---------|----------------------|-----------|-------------------------|--------------|---------------------------|-----------------------|---------|----------------------|----------|-----------|----------|----------------------------|--------------------------|--------------------------|---------|--------------|
|                      |           |                         | Observation<br>Time (LST) | Eff Cld Amt<br>Oktas |                       |         | DRY BULB          | DEW POINT | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION<br>Tens of Deg | STATION |                      |           |                         | SEA<br>LEVEL | Observation<br>Time (LST) |                       |         | Eff Cld Amt<br>Oktas | DRY BULB | DEW POINT | WET BULB | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH)              | DIRECTION<br>Tens of Deg | STATION | SEA<br>LEVEL |
|                      |           |                         |                           |                      |                       |         |                   |           |          |                            |             |                          |         |                      |           |                         |              |                           |                       |         |                      |          |           |          |                            |                          |                          |         |              |
| SUNRISE: 0530 SEP 01 |           |                         |                           |                      |                       |         | SUNSET: 1834      |           |          |                            |             |                          |         | SUNRISE: 0536 SEP 07 |           |                         |              |                           |                       |         | SUNSET: 1824         |          |           |          |                            |                          |                          |         |              |
| 01                   | CLR       | NC                      |                           |                      | 10.00                 |         | 61                | 55        | 58       | 81                         | 6           | 32                       | 30.10   | 30.19                | 01        | BKN                     | 035          |                           |                       | 10.00   |                      | 72       | 67        | 69       | 84                         | 13                       | 27                       | 29.78   | 29.85        |
| 04                   | CLR       | NC                      |                           |                      | 10.00                 |         | 61                | 54        | 57       | 78                         | 8           | 35                       | 30.10   | 30.18                | 04        | CLR                     | NC           |                           |                       | 10.00   |                      | 68       | 61        | 64       | 78                         | 8                        | 28                       | 29.85   | 29.93        |
| 07                   | CLR       | NC                      |                           |                      | 10.00                 |         | 66                | 56        | 60       | 70                         | 6           | 35                       | 30.14   | 30.22                | 07        | CLR                     | NC           |                           |                       | 10.00   |                      | 68       | 57        | 62       | 68                         | 8                        | 33                       | 29.91   | 30.00        |
| 10                   | CLR       | NC                      |                           |                      | 10.00                 |         | 78                | 52        | 63       | 40                         | 7           | 04                       | 30.14   | 30.23                | 10        | CLR                     | NC           |                           |                       | 10.00   |                      | 73       | 56        | 63       | 55                         | 11                       | 30                       | 29.94   | 30.03        |
| 13                   | CLR       | NC                      |                           |                      | 10.00                 |         | 85                | 48        | 64       | 28                         | 9           | 31                       | 30.09   | 30.17                | 13        | CLR                     | NC           |                           |                       | 10.00   |                      | 79       | 55        | 65       | 44                         | 10                       | 26                       | 29.93   | 30.01        |
| 16                   | CLR       | NC                      |                           |                      | 10.00                 |         | 85                | 51        | 65       | 31                         | 6           | VR                       | 30.04   | 30.13                | 16        | CLR                     | NC           |                           |                       | 10.00   |                      | 81       | 54        | 65       | 39                         | 10                       | 26                       | 29.91   | 29.99        |
| 19                   | CLR       | NC                      |                           |                      | 10.00                 |         | 77                | 52        | 62       | 42                         | 5           | 32                       | 30.04   | 30.12                | 19        | CLR                     | NC           |                           |                       | 10.00   |                      | 75       | 58        | 65       | 56                         | 5                        | 22                       | 29.96   | 30.04        |
| 22                   | CLR       | NC                      |                           |                      | 10.00                 |         | 70                | 56        | 62       | 61                         | 3           | 30                       | 30.03   | 30.12                | 22        | CLR                     | NC           |                           |                       | 10.00   |                      | 70       | 60        | 64       | 71                         | 6                        | 26                       | 29.99   | 30.08        |
| SUNRISE: 0531 SEP 02 |           |                         |                           |                      |                       |         | SUNSET: 1832      |           |          |                            |             |                          |         | SUNRISE: 0537 SEP 08 |           |                         |              |                           |                       |         | SUNSET: 1823         |          |           |          |                            |                          |                          |         |              |
| 01                   | CLR       | NC                      |                           |                      | 10.00                 |         | 63                | 56        | 59       | 78                         | 6           | 32                       | 30.02   | 30.11                | 01        | CLR                     | NC           |                           |                       | 10.00   |                      | 65       | 59        | 61       | 81                         | 0                        | 00                       | 30.02   | 30.11        |
| 04                   | CLR       | NC                      |                           |                      | 10.00                 |         | 62                | 55        | 58       | 78                         | 7           | 29                       | 29.99   | 30.08                | 04        | CLR                     | NC           |                           |                       | 10.00   |                      | 64       | 58        | 61       | 81                         | 3                        | 28                       | 30.04   | 30.13        |
| 07                   | CLR       | NC                      |                           |                      | 10.00                 |         | 67                | 58        | 62       | 73                         | 6           | 32                       | 30.03   | 30.11                | 07        | CLR                     | NC           |                           |                       | 10.00   |                      | 67       | 59        | 62       | 76                         | 0                        | 00                       | 30.10   | 30.19        |
| 10                   | CLR       | NC                      |                           |                      | 10.00                 |         | 82                | 54        | 65       | 38                         | 5           | 36                       | 30.03   | 30.11                | 10        | CLR                     | NC           |                           |                       | 10.00   |                      | 79       | 56        | 65       | 45                         | 3                        | VR                       | 30.11   | 30.20        |
| 13                   | CLR       | NC                      |                           |                      | 10.00                 |         | 89                | 52        | 67       | 28                         | 9           | 33                       | 29.96   | 30.04                | 13        | BKN                     | 055          |                           |                       | 10.00   |                      | 82       | 59        | 68       | 46                         | 11                       | 14                       | 30.07   | 30.16        |
| 16                   | CLR       | NC                      |                           |                      | 10.00                 |         | 89                | 53        | 67       | 29                         | 9           | 29                       | 29.91   | 29.99                | 16        | CLR                     | NC           |                           |                       | 10.00   |                      | 81       | 59        | 67       | 47                         | 13                       | 15                       | 30.04   | 30.13        |
| 19                   | CLR       | NC                      |                           |                      | 10.00                 |         | 80                | 57        | 66       | 45                         | 7           | 28                       | 29.90   | 29.98                | 19        | CLR                     | NC           |                           |                       | 10.00   |                      | 74       | 64        | 68       | 71                         | 10                       | 14                       | 30.06   | 30.14        |
| 22                   | CLR       | NC                      |                           |                      | 10.00                 |         | 73                | 58        | 64       | 59                         | 6           | 28                       | 29.88   | 29.97                | 22        | CLR                     | NC           |                           |                       | 8.00    |                      | 72       | 68        | 69       | 87                         | 6                        | 14                       | 30.06   | 30.13        |
| SUNRISE: 0532 SEP 03 |           |                         |                           |                      |                       |         | SUNSET: 1831      |           |          |                            |             |                          |         | SUNRISE: 0538 SEP 09 |           |                         |              |                           |                       |         | SUNSET: 1821         |          |           |          |                            |                          |                          |         |              |
| 01                   | CLR       | NC                      |                           |                      | 10.00                 |         | 69                | 60        | 64       | 73                         | 5           | 30                       | 29.85   | 29.94                | 01        | BKN                     | 055          |                           |                       | 10.00   |                      | 73       | 62        | 66       | 69                         | 9                        | 16                       | 29.99   | 30.07        |
| 04                   | CLR       | NC                      |                           |                      | 10.00                 |         | 69                | 59        | 63       | 71                         | 3           | 32                       | 29.85   | 29.93                | 04        | OVC                     | 070          |                           |                       | 10.00   |                      | 71       | 65        | 67       | 81                         | 5                        | 19                       | 29.96   | 30.04        |
| 07                   | CLR       | NC                      |                           |                      | 10.00                 |         | 68                | 63        | 65       | 84                         | 5           | 34                       | 29.88   | 29.96                | 07        | SCT                     | 010          |                           |                       | 7.00    |                      | 73       | 69        | 70       | 87                         | 9                        | 18                       | 29.91   | 30.00        |
| 10                   | CLR       | NC                      |                           |                      | 10.00                 |         | 80                | 61        | 68       | 52                         | 6           | 32                       | 29.88   | 29.95                | 10        | OVC                     | 039          |                           |                       | 6.00    | TS HZ                | 72       | 64        | 67       | 76                         | 21                       | 32                       | 29.96   | 30.03        |
| 13                   | CLR       | NC                      |                           |                      | 10.00                 |         | 86                | 62        | 70       | 45                         | 5           | VR                       | 29.85   | 29.93                | 13        | CLR                     | NC           |                           |                       | 10.00   |                      | 74       | 65        | 68       | 74                         | 0                        | 00                       | 29.93   | 30.01        |
| 16                   | CLR       | NC                      |                           |                      | 10.00                 |         | 89                | 59        | 70       | 36                         | 8           | 09                       | 29.80   | 29.88                | 16        | CLR                     | NC           |                           |                       | 10.00   |                      | 73       | 67        | 69       | 82                         | 6                        | 18                       | 29.88   | 29.96        |
| 19                   | CLR       | NC                      |                           |                      | 10.00                 |         | 77                | 70        | 72       | 79                         | 14          | 17                       | 29.82   | 29.90                | 19        | FEW                     | 120          |                           |                       | 10.00   |                      | 73       | 67        | 69       | 82                         | 0                        | 00                       | 29.93   | 30.01        |
| 22                   | CLR       | NC                      |                           |                      | 10.00                 |         | 73                | 69        | 70       | 87                         | 3           | 19                       | 29.85   | 29.93                | 22        | OVC                     | 050          |                           |                       | 10.00   |                      | 72       | 68        | 69       | 87                         | 0                        | 00                       | 29.96   | 30.04        |
| SUNRISE: 0533 SEP 04 |           |                         |                           |                      |                       |         | SUNSET: 1829      |           |          |                            |             |                          |         | SUNRISE: 0538 SEP 10 |           |                         |              |                           |                       |         | SUNSET: 1820         |          |           |          |                            |                          |                          |         |              |
| 01                   | CLR       | NC                      |                           |                      | 10.00                 |         | 71                | 66        | 68       | 84                         | 3           | 22                       | 29.86   | 29.94                | 01        | BKN                     | 090          |                           |                       | 10.00   |                      | 67       | 64        | 65       | 90                         | 8                        | 01                       | 30.01   | 30.09        |
| 04                   | CLR       | NC                      |                           |                      | 5.00                  | BR      | 68                | 66        | 67       | 93                         | 0           | 00                       | 29.86   | 29.95                | 04        | BKN                     | 090          |                           |                       | 10.00   |                      | 64       | 59        | 61       | 84                         | 9                        | 35                       | 30.04   | 30.13        |
| 07                   | CLR       | NC                      |                           |                      | 3.00                  | BR      | 71                | 67        | 68       | 87                         | 0           | 00                       | 29.91   | 29.98                | 07        | BKN                     | 090          |                           |                       | 10.00   |                      | 63       | 54        | 58       | 73                         | 8                        | 35                       | 30.14   | 30.22        |
| 10                   | CLR       | NC                      |                           |                      | 7.00                  |         | 81                | 68        | 72       | 65                         | 5           | 12                       | 29.93   | 30.01                | 10        | CLR                     | NC           |                           |                       | 10.00   |                      | 71       | 51        | 60       | 49                         | 11                       | 02                       | 30.17   | 30.26        |
| 13                   | FEW       | 095                     |                           |                      | 10.00                 |         | 90                | 63        | 72       | 41                         | 6           | 16                       | 29.90   | 29.98                | 13        | CLR                     | NC           |                           |                       | 10.00   |                      | 74       | 50        | 60       | 43                         | 7                        | 09                       | 30.16   | 30.24        |
| 16                   | CLR       | NC                      |                           |                      | 10.00                 |         | 89                | 64        | 72       | 44                         | 15          | 17                       | 29.86   | 29.94                | 16        | FEW                     | 065          |                           |                       | 10.00   |                      | 75       | 46        | 59       | 36                         | 7                        | 12                       | 30.14   | 30.22        |
| 19                   | OVC       | 070                     |                           |                      | 10.00                 |         | 82                | 63        | 70       | 53                         | 10          | 14                       | 29.88   | 29.96                | 19        | CLR                     | NC           |                           |                       | 10.00   |                      | 70       | 56        | 62       | 61                         | 8                        | 15                       | 30.16   | 30.24        |
| 22                   | CLR       | NC                      |                           |                      | 9.00                  |         | 77                | 70        | 72       | 79                         | 10          | 15                       | 29.93   | 30.01                | 22        | CLR                     | NC           |                           |                       | 10.00   |                      | 64       | 53        | 58       | 68                         | 3                        | 10                       | 30.22   | 30.31        |
| SUNRISE: 0534 SEP 05 |           |                         |                           |                      |                       |         | SUNSET: 1828      |           |          |                            |             |                          |         | SUNRISE: 0539 SEP 11 |           |                         |              |                           |                       |         | SUNSET: 1818         |          |           |          |                            |                          |                          |         |              |
| 01                   | CLR       | NC                      |                           |                      | 10.00                 |         | 74                | 63        | 67       | 69                         | 6           | 18                       | 29.94   | 30.02                | 01        | BKN                     | 060          |                           |                       | 10.00   |                      | 62       | 55        | 58       | 78                         | 0                        | 00                       | 30.22   | 30.31        |
| 04                   | CLR       | NC                      |                           |                      | 9.00                  |         | 72                | 64        | 67       | 76                         | 3           | 16                       | 29.94   | 30.03                | 04        | SCT                     | 080          |                           |                       | 10.00   |                      | 63       | 55        | 58       | 75                         | 7                        | 07                       | 30.23   | 30.31        |
| 07                   | CLR       | NC                      |                           |                      | 8.00                  |         | 73                | 68        | 70       | 84                         | 6           | 18                       | 29.98   | 30.06                | 07        | SCT                     | 060          |                           |                       | 10.00   |                      | 64       | 55        | 59       | 73                         | 10                       | 06                       | 30.27   | 30.35        |
| 10                   | CLR       | NC                      |                           |                      | 10.00                 |         | 81                | 66        | 71       | 60                         | 10          | 14                       | 30.01   | 30.09                | 10        | BKN                     | 070          |                           |                       | 10.00   |                      | 70       | 54        | 61       | 57                         | 9                        | 08                       | 30.28   | 30.37        |
| 13                   | CLR       | NC                      |                           |                      | 10.00                 |         | 86                | 66        | 73       | 51                         | 17          | 15                       | 29.98   | 30.06                | 13        | OVC                     | 060          |                           |                       | 10.00   |                      | 74       | 54        | 62       | 50                         | 10                       | 13                       | 30.25   | 30.34        |
| 16                   | CLR       | NC                      |                           |                      | 10.00                 |         | 82                | 64        | 70       | 55                         | 16          | 13                       | 29.93   | 30.01                | 16        | OVC                     | 060          |                           |                       | 10.00   |                      | 73       | 58        | 64       | 59                         | 15                       | 16                       | 30.20   | 30.29        |
| 19                   | SCT       | 060                     |                           |                      | 10.00                 |         | 78                | 67        | 71       | 69                         | 8           | 13                       | 29.93   | 30.01                | 19        | OVC                     | 050          |                           |                       | 10.00   |                      | 69       | 57        | 62       | 66                         | 10                       | 13                       | 30.22   | 30.29        |
| 22                   | OVC       | 048                     |                           |                      | 10.00                 |         | 76                | 69        | 71       | 79                         | 9           | 10                       | 29.91   | 29.99                | 22        | OVC                     | 070          |                           |                       | 10.00   |                      | 67       | 56        | 61       | 68                         | 9                        | 13                       | 30.22   | 30.30        |
| SUNRISE: 0535 SEP 06 |           |                         |                           |                      |                       |         | SUNSET: 1826      |           |          |                            |             |                          |         | SUNRISE: 0540 SEP 12 |           |                         |              |                           |                       |         | SUNSET: 1816         |          |           |          |                            |                          |                          |         |              |
| 01                   | OVC       | 019                     |                           |                      | 10.00                 |         | 75                | 73        | 74       | 94                         | 6           | 11                       | 29.85   | 29.93                | 01        | OVC                     | 037          |                           |                       | 10.00   |                      | 66       | 58        | 61       | 76                         | 5                        | 13                       | 30.19   | 30.28        |
| 04                   | OVC       | 005                     |                           |                      | 6.00                  | BR      | 77                | 76        | 76       | 97                         | 6           | 14                       | 29.83   | 29.91                | 04        | OVC                     | 065          |                           |                       | 10.00   |                      | 66       | 58        | 61       | 76                         | 5                        | 18                       | 30.14   | 30.23        |
| 07                   | BKN       | 012                     |                           |                      | 3.00                  | BR      | 77                | 75        | 76       | 94                         | 7           | 09                       | 29.82   | 29.89                | 07        | OVC                     | 070          |                           |                       | 10.00   |                      | 68       | 60        | 63       | 76                         | 9                        | 17                       | 30.12   | 30.20        |
| 10                   | BKN       | 090                     |                           |                      | 7.00                  | -RA     | 78                | 76        | 77       | 94                         | 10          | 06                       | 29.77   | 29.84                | 10        | OVC                     | 030          |                           |                       | 10.00   |                      | 70       | 62        | 65       | 76                         | 8                        | 17                       | 30.09   | 30.18        |
| 13                   | OVC       | 032                     |                           |                      | 0.75                  | +RA BR  | 73                | 70        | 71       | 90                         | 20          | 08                       | 29.57   | 29.66                | 13        | OVC                     | 026          |                           |                       | 5.00    | -RA                  | 71       | 64        | 67       | 79                         | 7                        | 17                       | 30.02   | 30.11        |
| 16                   | OVC       | 018                     |                           |                      | 1.00                  | +RA BR  | 76                | 75        | 75       | 97                         | 20          | 02                       | 29.36   | 29.45                | 16        | OVC                     | 037          |                           |                       | 6.00    | -RA BR               | 71       | 69        | 70       | 93                         | 9                        | 18                       | 29.93   | 30.01        |
| 19                   | BKN       | 020                     |                           |                      | 10.00                 | -RA     | 72                | 68        | 69       | 87                         | 21          | 33                       | 29.48   | 29.56                | 19        | OVC                     | 015          |                           |                       | 8.00    |                      | 72       | 70        | 71       | 93                         | 7                        | 21                       | 29.91   | 29.99        |
| 22                   | CLR       | NC                      |                           |                      | 10.00                 |         | 73                | 66        | 69       | 79                         | 16          | 28                       | 29.67   | 29.74                | 22        | OVC                     | 046          |                           |                       | 10.00   |                      | 72       | 70        | 71       | 93                         | 5                        | 25                       | 29.91   | 29.98        |

# OBSERVATIONS AT 3-HOURLY INTERVALS

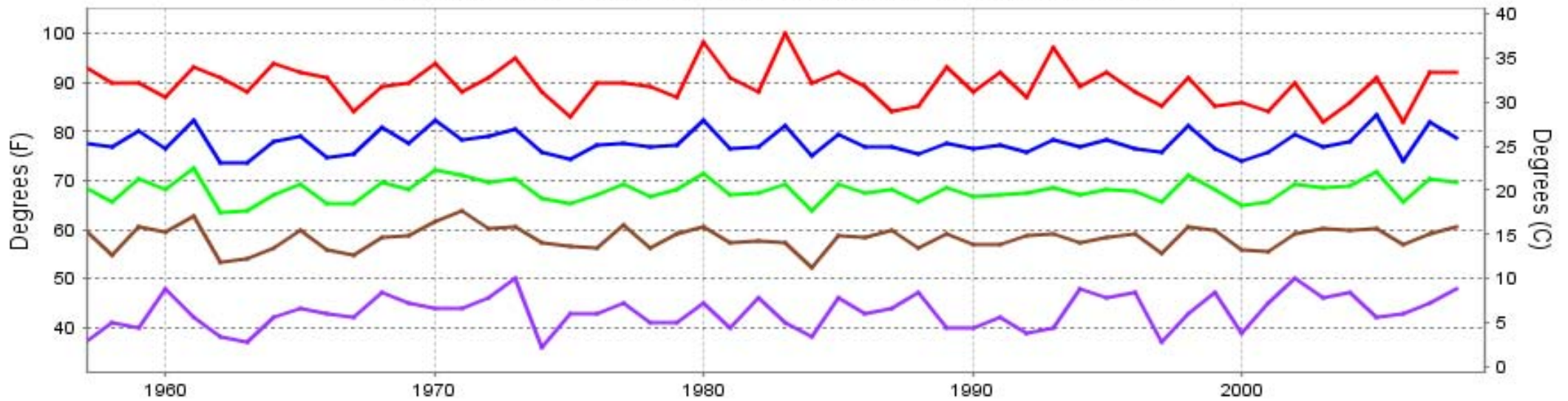
WILMINGTON, DE  
SEPTEMBER 2008 KILG

WBAN # 13781

| HOUR (LST)                  | SKY COVER | CEILING<br>100's of FT. | SATELLITE                 |                      | WEATHER | TEMPERATURE<br>°F     |          |           | WIND<br>SPEED (MPH)<br>DIRECTION<br>Tens of Deg | PRESSURE<br>(INCHES, HG) |                            | HOUR (LST)                  | SKY COVER | CEILING<br>100's of FT. | SATELLITE |              | WEATHER | TEMPERATURE<br>°F   |           |          | WIND<br>SPEED (MPH)<br>DIRECTION<br>Tens of Deg | PRESSURE<br>(INCHES, HG)   |             |                          |         |              |                           |                      |                       |          |
|-----------------------------|-----------|-------------------------|---------------------------|----------------------|---------|-----------------------|----------|-----------|---|--------------------------|----------------------------|-----------------------------|-----------|-------------------------|-----------|--------------|---------|---------------------|-----------|----------|---|----------------------------|-------------|--------------------------|---------|--------------|---------------------------|----------------------|-----------------------|----------|
|                             |           |                         | Observation<br>Time (LST) | Eff Cld Amt<br>Oktas |         | VISIBILITY<br>(MILES) | DRY BULB | DEW POINT |   | WET BULB                 | RELATIVE<br>HUMIDITY (PCT) |                             |           |                         | STATION   | SEA<br>LEVEL |         | DRY BULB            | DEW POINT | WET BULB |   | RELATIVE<br>HUMIDITY (PCT) | SPEED (MPH) | DIRECTION<br>Tens of Deg | STATION | SEA<br>LEVEL |                           |                      |                       |          |
|                             |           |                         |                           |                      |         |                       |          |           |   |                          |                            |                             |           |                         |           |              |         |                     |           |          |   |                            |             |                          |         |              | Observation<br>Time (LST) | Eff Cld Amt<br>Oktas | VISIBILITY<br>(MILES) | DRY BULB |
| <b>SUNRISE: 0541 SEP 13</b> |           |                         |                           |                      |         | <b>SUNSET: 1815</b>   |          |           |   |                          |                            | <b>SUNRISE: 0547 SEP 19</b> |           |                         |           |              |         | <b>SUNSET: 1805</b> |           |          |   |                            |             |                          |         |              |                           |                      |                       |          |
| 01                          | OVC       | 060                     |                           |                      | 4.00    | BR                    | 73       | 71        | 72  | 93                       | 7                          | 26                          | 29.86     | 29.95                   | 01        | CLR          | NC      |                     |           | 10.00    |   |                            | 59          | 45                       | 52      | 60           | 8                         | 03                   | 30.27                 | 30.35    |
| 04                          | CLR       | NC                      |                           |                      | 7.00    |                       | 71       | 69        | 70  | 93                       | 6                          | 28                          | 29.85     | 29.93                   | 04        | CLR          | NC      |                     |           | 10.00    |   |                            | 56          | 47                       | 51      | 72           | 6                         | 03                   | 30.28                 | 30.37    |
| 07                          | FEW       | 120                     |                           |                      | 5.00    | BR                    | 71       | 69        | 70  | 93                       | 3                          | 27                          | 29.88     | 29.96                   | 07        | CLR          | NC      |                     |           | 10.00    |   |                            | 58          | 47                       | 52      | 67           | 10                        | 03                   | 30.35                 | 30.42    |
| 10                          | OVC       | 070                     |                           |                      | 10.00   |                       | 79       | 68        | 72  | 69                       | 8                          | 30                          | 29.90     | 29.97                   | 10        | CLR          | NC      |                     |           | 10.00    |   |                            | 66          | 50                       | 57      | 57           | 10                        | 06                   | 30.37                 | 30.45    |
| 13                          | FEW       | 033                     |                           |                      | 10.00   |                       | 84       | 67        | 73  | 57                       | 9                          | 28                          | 29.85     | 29.93                   | 13        | CLR          | NC      |                     |           | 10.00    |   |                            | 69          | 48                       | 58      | 47           | 7                         | 03                   | 30.33                 | 30.42    |
| 16                          | CLR       | NC                      |                           |                      | 10.00   |                       | 83       | 67        | 72  | 59                       | 8                          | 31                          | 29.85     | 29.93                   | 16        | OVC          | 055     |                     |           | 10.00    |   |                            | 68          | 50                       | 58      | 53           | 13                        | 11                   | 30.28                 | 30.37    |
| 19                          | CLR       | NC                      |                           |                      | 10.00   |                       | 80       | 70        | 73  | 72                       | 3                          | 22                          | 29.85     | 29.92                   | 19        | CLR          | NC      |                     |           | 10.00    |   |                            | 62          | 48                       | 55      | 60           | 9                         | 10                   | 30.29                 | 30.38    |
| 22                          | CLR       | NC                      |                           |                      | 10.00   |                       | 76       | 72        | 73  | 87                       | 6                          | 16                          | 29.83     | 29.92                   | 22        | CLR          | NC      |                     |           | 10.00    |   |                            | 58          | 47                       | 52      | 67           | 8                         | 09                   | 30.30                 | 30.39    |
| <b>SUNRISE: 0542 SEP 14</b> |           |                         |                           |                      |         | <b>SUNSET: 1813</b>   |          |           |   |                          |                            | <b>SUNRISE: 0548 SEP 20</b> |           |                         |           |              |         | <b>SUNSET: 1803</b> |           |          |   |                            |             |                          |         |              |                           |                      |                       |          |
| 01                          | CLR       | NC                      |                           |                      | 7.00    |                       | 74       | 71        | 72  | 90                       | 0                          | 00                          | 29.82     | 29.89                   | 01        | CLR          | NC      |                     |           | 10.00    |   |                            | 54          | 47                       | 50      | 77           | 3                         | 01                   | 30.27                 | 30.36    |
| 04                          | CLR       | NC                      |                           |                      | 8.00    |                       | 74       | 70        | 71  | 87                       | 3                          | 19                          | 29.77     | 29.85                   | 04        | CLR          | NC      |                     |           | 10.00    |   |                            | 49          | 45                       | 47      | 86           | 6                         | 32                   | 30.24                 | 30.33    |
| 07                          | CLR       | NC                      |                           |                      | 4.00    | BR                    | 74       | 72        | 73  | 94                       | 3                          | 19                          | 29.78     | 29.85                   | 07        | CLR          | NC      |                     |           | 10.00    |   |                            | 54          | 48                       | 51      | 80           | 5                         | 35                   | 30.24                 | 30.33    |
| 10                          | CLR       | NC                      |                           |                      | 10.00   |                       | 83       | 74        | 77  | 74                       | 7                          | 23                          | 29.75     | 29.83                   | 10        | CLR          | NC      |                     |           | 10.00    |   |                            | 65          | 52                       | 58      | 63           | 8                         | 06                   | 30.23                 | 30.32    |
| 13                          | CLR       | NC                      |                           |                      | 10.00   |                       | 89       | 73        | 78  | 59                       | 7                          | 20                          | 29.69     | 29.77                   | 13        | FEW          | 038     |                     |           | 10.00    |   |                            | 68          | 50                       | 58      | 53           | 6                         | 04                   | 30.19                 | 30.27    |
| 16                          | CLR       | NC                      |                           |                      | 10.00   |                       | 88       | 74        | 78  | 63                       | 9                          | 16                          | 29.62     | 29.70                   | 16        | CLR          | NC      |                     |           | 10.00    |   |                            | 71          | 48                       | 58      | 44           | 0                         | 00                   | 30.14                 | 30.23    |
| 19                          | CLR       | NC                      |                           |                      | 10.00   |                       | 84       | 72        | 76  | 67                       | 14                         | 17                          | 29.59     | 29.67                   | 19        | CLR          | NC      |                     |           | 10.00    |   |                            | 65          | 52                       | 58      | 63           | 0                         | 00                   | 30.14                 | 30.22    |
| 22                          | CLR       | NC                      |                           |                      | 10.00   |                       | 82       | 70        | 74  | 67                       | 15                         | 20                          | 29.59     | 29.66                   | 22        | CLR          | NC      |                     |           | 10.00    |   |                            | 58          | 53                       | 55      | 84           | 3                         | 34                   | 30.14                 | 30.23    |
| <b>SUNRISE: 0543 SEP 15</b> |           |                         |                           |                      |         | <b>SUNSET: 1811</b>   |          |           |   |                          |                            | <b>SUNRISE: 0549 SEP 21</b> |           |                         |           |              |         | <b>SUNSET: 1802</b> |           |          |   |                            |             |                          |         |              |                           |                      |                       |          |
| 01                          | CLR       | NC                      |                           |                      | 10.00   |                       | 81       | 70        | 74  | 69                       | 15                         | 22                          | 29.57     | 29.66                   | 01        | CLR          | NC      |                     |           | 7.00     |   |                            | 52          | 51                       | 51      | 96           | 5                         | 32                   | 30.14                 | 30.22    |
| 04                          | SCT       | 075                     |                           |                      | 10.00   |                       | 80       | 69        | 73  | 69                       | 10                         | 25                          | 29.62     | 29.69                   | 04        | CLR          | NC      |                     |           | 7.00     |   |                            | 51          | 50                       | 50      | 96           | 3                         | 31                   | 30.14                 | 30.23    |
| 07                          | CLR       | NC                      |                           |                      | 10.00   |                       | 77       | 62        | 68  | 60                       | 10                         | 30                          | 29.72     | 29.79                   | 07        | CLR          | NC      |                     |           | 7.00     |   |                            | 53          | 51                       | 52      | 93           | 3                         | 29                   | 30.16                 | 30.25    |
| 10                          | CLR       | NC                      |                           |                      | 10.00   |                       | 80       | 60        | 67  | 51                       | 20                         | 29                          | 29.77     | 29.85                   | 10        | CLR          | NC      |                     |           | 10.00    |   |                            | 71          | 55                       | 62      | 57           | 5                         | VR                   | 30.17                 | 30.26    |
| 13                          | BKN       | 055                     |                           |                      | 10.00   |                       | 83       | 58        | 67  | 43                       | 17                         | 31                          | 29.78     | 29.86                   | 13        | CLR          | NC      |                     |           | 10.00    |   |                            | 78          | 56                       | 65      | 47           | 3                         | 29                   | 30.15                 | 30.24    |
| 16                          | CLR       | NC                      |                           |                      | 10.00   |                       | 81       | 54        | 65  | 39                       | 16                         | 29                          | 29.80     | 29.88                   | 16        | CLR          | NC      |                     |           | 10.00    |   |                            | 78          | 58                       | 66      | 50           | 7                         | 16                   | 30.12                 | 30.21    |
| 19                          | CLR       | NC                      |                           |                      | 10.00   |                       | 76       | 56        | 64  | 50                       | 6                          | 26                          | 29.86     | 29.95                   | 19        | CLR          | NC      |                     |           | 10.00    |   |                            | 73          | 59                       | 65      | 62           | 3                         | 21                   | 30.15                 | 30.23    |
| 22                          | CLR       | NC                      |                           |                      | 10.00   |                       | 71       | 57        | 63  | 61                       | 8                          | 30                          | 29.93     | 30.01                   | 22        | CLR          | NC      |                     |           | 7.00     |   |                            | 64          | 60                       | 62      | 87           | 3                         | 30                   | 30.19                 | 30.27    |
| <b>SUNRISE: 0544 SEP 16</b> |           |                         |                           |                      |         | <b>SUNSET: 1810</b>   |          |           |   |                          |                            | <b>SUNRISE: 0550 SEP 22</b> |           |                         |           |              |         | <b>SUNSET: 1760</b> |           |          |   |                            |             |                          |         |              |                           |                      |                       |          |
| 01                          | CLR       | NC                      |                           |                      | 10.00   |                       | 67       | 52        | 59  | 59                       | 11                         | 36                          | 29.98     | 30.07                   | 01        | CLR          | NC      |                     |           | 4.00     | BR  |                            | 62          | 58                       | 60      | 87           | 0                         | 00                   | 30.19                 | 30.27    |
| 04                          | BKN       | 070                     |                           |                      | 10.00   |                       | 63       | 51        | 56  | 65                       | 8                          | 36                          | 30.01     | 30.10                   | 04        | CLR          | NC      |                     |           | 5.00     | BR  |                            | 59          | 56                       | 57      | 90           | 7                         | 36                   | 30.19                 | 30.28    |
| 07                          | SCT       | 055                     |                           |                      | 10.00   |                       | 63       | 52        | 57  | 68                       | 7                          | 35                          | 30.06     | 30.14                   | 07        | CLR          | NC      |                     |           | 4.00     | BR  |                            | 62          | 58                       | 60      | 87           | 9                         | 03                   | 30.24                 | 30.33    |
| 10                          | CLR       | NC                      |                           |                      | 10.00   |                       | 66       | 53        | 59  | 63                       | 7                          | 01                          | 30.09     | 30.18                   | 10        | CLR          | NC      |                     |           | 8.00     | BR  |                            | 71          | 60                       | 64      | 68           | 11                        | 05                   | 30.27                 | 30.36    |
| 13                          | CLR       | NC                      |                           |                      | 10.00   |                       | 71       | 53        | 61  | 53                       | 5                          | 01                          | 30.06     | 30.14                   | 13        | CLR          | NC      |                     |           | 10.00    |   |                            | 77          | 60                       | 66      | 56           | 11                        | 03                   | 30.25                 | 30.34    |
| 16                          | FEW       | 046                     |                           |                      | 10.00   |                       | 71       | 51        | 60  | 49                       | 9                          | 34                          | 30.03     | 30.12                   | 16        | SCT          | 043     |                     |           | 10.00    |   |                            | 76          | 59                       | 66      | 56           | 11                        | 03                   | 30.22                 | 30.31    |
| 19                          | CLR       | NC                      |                           |                      | 10.00   |                       | 66       | 53        | 59  | 63                       | 5                          | 34                          | 30.06     | 30.14                   | 19        | OVC          | 043     |                     |           | 10.00    |   |                            | 72          | 58                       | 64      | 62           | 8                         | 03                   | 30.27                 | 30.35    |
| 22                          | CLR       | NC                      |                           |                      | 10.00   |                       | 58       | 54        | 56  | 87                       | 7                          | 30                          | 30.10     | 30.18                   | 22        | CLR          | NC      |                     |           | 9.00     |   |                            | 65          | 59                       | 61      | 81           | 8                         | 06                   | 30.31                 | 30.40    |
| <b>SUNRISE: 0545 SEP 17</b> |           |                         |                           |                      |         | <b>SUNSET: 1808</b>   |          |           |   |                          |                            | <b>SUNRISE: 0551 SEP 23</b> |           |                         |           |              |         | <b>SUNSET: 1758</b> |           |          |   |                            |             |                          |         |              |                           |                      |                       |          |
| 01                          | CLR       | NC                      |                           |                      | 10.00   |                       | 57       | 54        | 55  | 90                       | 3                          | 32                          | 30.09     | 30.18                   | 01        | CLR          | NC      |                     |           | 10.00    |   |                            | 62          | 58                       | 60      | 87           | 8                         | 06                   | 30.31                 | 30.40    |
| 04                          | CLR       | NC                      |                           |                      | 10.00   |                       | 55       | 52        | 53  | 90                       | 3                          | 32                          | 30.09     | 30.17                   | 04        | CLR          | NC      |                     |           | 10.00    |   |                            | 59          | 55                       | 57      | 87           | 8                         | 03                   | 30.33                 | 30.42    |
| 07                          | CLR       | NC                      |                           |                      | 10.00   |                       | 59       | 53        | 56  | 81                       | 5                          | 35                          | 30.10     | 30.19                   | 07        | CLR          | NC      |                     |           | 9.00     |   |                            | 59          | 54                       | 56      | 84           | 11                        | 03                   | 30.36                 | 30.45    |
| 10                          | CLR       | NC                      |                           |                      | 10.00   |                       | 69       | 51        | 59  | 53                       | 10                         | 36                          | 30.12     | 30.20                   | 10        | CLR          | NC      |                     |           | 10.00    |   |                            | 67          | 50                       | 58      | 55           | 16                        | 06                   | 30.39                 | 30.47    |
| 13                          | CLR       | NC                      |                           |                      | 10.00   |                       | 74       | 50        | 60  | 43                       | 11                         | 34                          | 30.07     | 30.16                   | 13        | CLR          | NC      |                     |           | 10.00    |   |                            | 71          | 48                       | 58      | 44           | 11                        | 07                   | 30.35                 | 30.44    |
| 16                          | CLR       | NC                      |                           |                      | 10.00   |                       | 76       | 51        | 62  | 42                       | 7                          | 35                          | 30.01     | 30.10                   | 16        | CLR          | NC      |                     |           | 10.00    |   |                            | 72          | 44                       | 57      | 37           | 11                        | 07                   | 30.30                 | 30.39    |
| 19                          | CLR       | NC                      |                           |                      | 10.00   |                       | 71       | 52        | 60  | 51                       | 3                          | 19                          | 30.02     | 30.10                   | 19        | CLR          | NC      |                     |           | 10.00    |   |                            | 65          | 46                       | 55      | 50           | 6                         | 06                   | 30.32                 | 30.40    |
| 22                          | CLR       | NC                      |                           |                      | 10.00   |                       | 59       | 55        | 57  | 87                       | 6                          | 31                          | 30.04     | 30.13                   | 22        | CLR          | NC      |                     |           | 10.00    |   |                            | 60          | 51                       | 55      | 72           | 3                         | 10                   | 30.35                 | 30.42    |
| <b>SUNRISE: 0546 SEP 18</b> |           |                         |                           |                      |         | <b>SUNSET: 1807</b>   |          |           |   |                          |                            | <b>SUNRISE: 0552 SEP 24</b> |           |                         |           |              |         | <b>SUNSET: 1757</b> |           |          |   |                            |             |                          |         |              |                           |                      |                       |          |
| 01                          | CLR       | NC                      |                           |                      | 9.00    |                       | 57       | 54        | 55  | 90                       | 6                          | 30                          | 30.03     | 30.11                   | 01        | CLR          | NC      |                     |           | 10.00    |   |                            | 54          | 51                       | 52      | 90           | 3                         | 34                   | 30.33                 | 30.42    |
| 04                          | CLR       | NC                      |                           |                      | 7.00    |                       | 57       | 53        | 55  | 87                       | 0                          | 00                          | 30.01     | 30.10                   | 04        | CLR          | NC      |                     |           | 10.00    |   |                            | 51          | 49                       | 50      | 93           | 3                         | 34                   | 30.30                 | 30.39    |
| 07                          | CLR       | NC                      |                           |                      | 8.00    |                       | 60       | 53        | 56  | 78                       | 3                          | 33                          | 30.06     | 30.14                   | 07        | CLR          | NC      |                     |           | 10.00    |   |                            | 56          | 51                       | 53      | 83           | 6                         | 36                   | 30.35                 | 30.43    |
| 10                          | CLR       | NC                      |                           |                      | 10.00   |                       | 75       | 56        | 64  | 52                       | 8                          | 34                          | 30.10     | 30.19                   | 10        | CLR          | NC      |                     |           | 10.00    |   |                            | 66          | 52                       | 58      | 61           | 10                        | 07                   | 30.35                 | 30.44    |
| 13                          | SCT       | 044                     |                           |                      | 10.00   |                       | 79       | 56        | 65  | 45                       |                            |                             | 30.10     | 30.19                   | 13        | CLR          | NC      |                     |           | 10.00    |   |                            | 71          | 51                       | 60      | 49           | 11                        | 04                   | 30.31                 | 30.39    |
| 16                          | CLR       | NC                      |                           |                      | 10.00   |                       | 77       | 55        | 64  | 47                       | 10                         | 33                          | 30.10     | 30.19                   | 16        | CLR          | NC      |                     |           | 10.00    |   |                            | 70          | 50                       | 59      | 49           | 14                        | 06                   | 30.27                 | 30.36    |
| 19                          | BKN       | 075                     |                           |                      | 10.00   |                       | 70       | 51        | 59  | 51                       | 6                          | 01                          | 30.15     | 30.24                   | 19        | CLR          | NC      |                     |           | 10.00    |   |                            | 65          | 51                       | 57      | 61           | 10                        | 09                   | 30.30                 | 30.39    |
| 22                          | CLR       | NC                      |                           |                      | 10.00   |                       | 66       | 49        | 57  | 54                       | 10                         | 06                          | 30.23     | 30.32                   | 22        | CLR          | NC      |                     |           | 10.00    |   |                            | 61          | 49                       | 55      | 65           | 9                         | 06                   | 30.30                 | 30.39    |



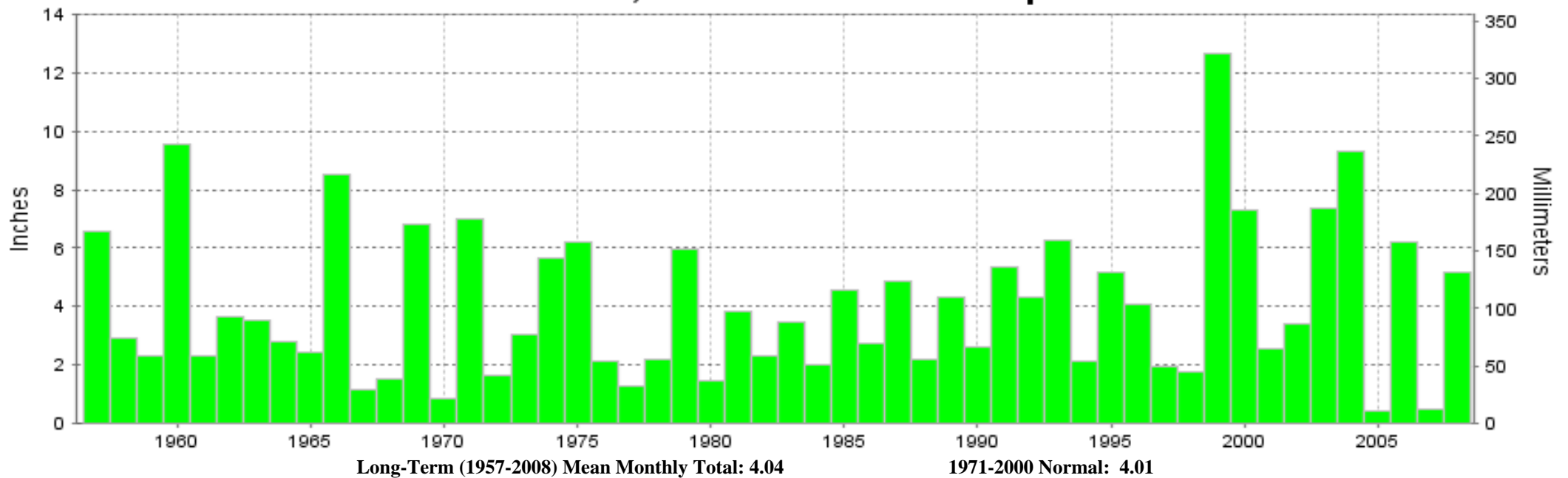
## WILMINGTON, DE SEPTEMBER Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1957-2008) Mean: 68.0  
1971-2000 Normal: 67.7

## WILMINGTON, DE SEPTEMBER Precipitation



Long-Term (1957-2008) Mean Monthly Total: 4.04

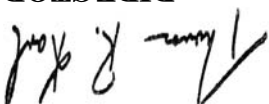
1971-2000 Normal: 4.01



SEPTEMBER 2008  
WILMINGTON, DE

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