



MAY 1998

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

## WILMINGTON, DE

NEW CASTLE COUNTY APRT (ILG)

Lat: 39° 40' N Long: 75° 36' W Elev (Ground): 74 Feet

Time Zone: EASTERN WBAN: 13781 ISSN #:0198-117X

| DATE                      | TEMPERATURE °F |         |         |                    |                                     |                     | DEG DAYS<br>BASE 65 ° |         | WEATHER                                        | SNOW/ICE<br>ON GND(IN) |             | PRECIPITATION<br>(INCHES) |                                      | PRESSURE<br>(INCHES OF HG)                     |                         | WIND SPEED = MPH<br>DIR = TENS OF DEGREES |                                |                  |                      |     |                                |     |    | DATE |  |
|---------------------------|----------------|---------|---------|--------------------|-------------------------------------|---------------------|-----------------------|---------|------------------------------------------------|------------------------|-------------|---------------------------|--------------------------------------|------------------------------------------------|-------------------------|-------------------------------------------|--------------------------------|------------------|----------------------|-----|--------------------------------|-----|----|------|--|
|                           | MAXIMUM        | MINIMUM | AVERAGE | DEP FROM<br>NORMAL | AVERAGE<br>DEW PT                   | AVERAGE<br>WET BULB | HEATING               | COOLING |                                                | 0700<br>LST            | 1300<br>LST | 2400<br>LST               | 2400<br>LST                          | AVERAGE<br>STATION                             | AVERAGE<br>SEA<br>LEVEL | RESULTANT<br>SPEED                        | RES DIR                        | AVERAGE<br>SPEED | MAXIMUM              |     |                                |     |    |      |  |
|                           |                |         |         |                    |                                     |                     |                       |         |                                                |                        |             |                           |                                      |                                                |                         |                                           |                                |                  | 5-SEC 2-MIN          |     |                                |     |    |      |  |
|                           |                |         |         |                    |                                     |                     |                       |         |                                                |                        |             |                           |                                      |                                                |                         |                                           |                                |                  | SPEED                | DIR | SPEED                          | DIR |    |      |  |
| 1                         | 2              | 3       | 4       | 5                  | 6                                   | 7                   | 8                     | 9       | 10                                             | 11                     | 12          | 13                        | 14                                   | 15                                             | 16                      | 17                                        | 18                             | 19               | 20                   | 21  | 22                             | 23  | 24 |      |  |
| 01                        | 66             | 58      | 62      | 5                  | 59                                  | 60                  | 3                     | 0       | RA DZ BR                                       |                        |             |                           | 0.15                                 | 29.68                                          | 29.76                   | 4.3                                       | 08                             | 6.7              | 18                   | 07  | 16                             | 06  | 01 |      |  |
| 02                        | 68             | 57      | 63      | 5                  | 58                                  | 59                  | 2                     | 0       | RA BR                                          |                        |             |                           | 0.09                                 | 29.49                                          | 29.57                   | 4.3                                       | 18                             | 7.0              | 18                   | 26  | 15                             | 25  | 02 |      |  |
| 03                        | 72             | 53      | 63      | 5                  | 57                                  | 59                  | 2                     | 0       | TSRA RA BR                                     |                        |             |                           | 0.02                                 | 29.62                                          | 29.71                   | 5.3                                       | 20                             | 7.1              | 16                   | 24  | 14                             | 24  | 03 |      |  |
| 04                        | 69             | 59      | 64      | 6                  | 60                                  | 61                  | 1                     | 0       | RA BR                                          |                        |             |                           | 0.02                                 | 29.72                                          | 29.80                   | 6.1                                       | 13                             | 7.6              | 22                   | 14  | 16                             | 15  | 04 |      |  |
| 05                        | 71             | 55      | 63      | 4                  | 57                                  | 59                  | 2                     | 0       | RA BR                                          |                        |             |                           | 0.60                                 | 29.83                                          | 29.91                   | 8.4                                       | 10                             | 9.3              | 24                   | 15  | 21                             | 14  | 05 |      |  |
| 06                        | 65             | 55      | 60      | 1                  | 57                                  | 58                  | 5                     | 0       | TSRA RA BR HZ                                  |                        |             |                           | 0.04                                 | 29.86                                          | 29.95                   | 3.5                                       | 06                             | 4.2              | 11                   | 05  | 9                              | 05  | 06 |      |  |
| 07                        | 71             | 53      | 62      | 3                  | 57                                  | 59                  | 3                     | 0       | RA FG+ BR HZ                                   |                        |             |                           | 0.01                                 | 29.82                                          | 29.90                   | 5.0                                       | 14                             | 6.5              | 21                   | 16  | 17                             | 16  | 07 |      |  |
| 08                        | 61             | 57      | 59      | -1                 | 56                                  | 57                  | 6                     | 0       | RA BR                                          |                        |             |                           | 0.91                                 | 29.54                                          | 29.62                   | 11.6                                      | 06                             | 12.5             | 28                   | 04  | 24                             | 04  | 08 |      |  |
| 09                        | 63             | 56      | 60      | 0                  | 57                                  | 58                  | 5                     | 0       | RA BR                                          |                        |             |                           | 0.42                                 | 29.57                                          | 29.65                   | 16.3                                      | 36                             | 16.6             | 32                   | 36  | 26                             | 36  | 09 |      |  |
| 10                        | 60             | 54      | 57      | -4                 | 56                                  | 56                  | 8                     | 0       | RA DZ BR                                       |                        |             |                           | 0.32                                 | 29.63                                          | 29.72                   | 9.6                                       | 03                             | 10.9             | 23                   | 04  | 18                             | 04  | 10 |      |  |
| 11                        | 55             | 51      | 53*     | -8                 | 52                                  | 53                  | 12                    | 0       | RA BR                                          |                        |             |                           | 0.54                                 | 29.64                                          | 29.73                   | 10.5                                      | 04                             | 11.1             | 24                   | 04  | 21                             | 04  | 11 |      |  |
| 12                        | 56             | 51      | 54      | -7                 | 48                                  | 51                  | 11                    | 0       | RA BR                                          |                        |             |                           | 0.64                                 | 29.83                                          | 29.91                   | 15.0                                      | 05                             | 15.2             | 34                   | 06  | 29                             | 04  | 12 |      |  |
| 13                        | 66             | 48      | 57      | -5                 | 45                                  | 51                  | 8                     | 0       |                                                |                        |             |                           | 0.00                                 | 30.03                                          | 30.11                   | 7.3                                       | 05                             | 9.2              | 21                   | 04  | 17                             | 02  | 13 |      |  |
| 14                        | 77             | 40*     | 59      | -3                 | 46                                  | 52                  | 6                     | 0       | BR                                             |                        |             |                           | 0.00                                 | 30.05                                          | 30.13                   | 1.4                                       | 15                             | 5.3              | 18                   | 16  | 15                             | 16  | 14 |      |  |
| 15                        | 87             | 48      | 68      | 6                  | 55                                  | 60                  | 0                     | 3       |                                                |                        |             |                           | 0.00                                 | 29.95                                          | 30.03                   | 1.1                                       | 31                             | 5.0              | 18                   | 02  | 15                             | 36  | 15 |      |  |
| 16                        | 87             | 58      | 73      | 11                 | 63                                  | 67                  | 0                     | 8       | BR HZ                                          |                        |             |                           | 0.00                                 | 29.87                                          | 29.96                   | 3.6                                       | 14                             | 4.9              | 20                   | 16  | 17                             | 16  | 16 |      |  |
| 17                        | 78             | 59      | 69      | 6                  | 60                                  | 63                  | 0                     | 4       | HZ                                             |                        |             |                           | 0.00                                 | 29.91                                          | 30.00                   | 5.2                                       | 07                             | 7.9              | 18                   | 03  | 16                             | 16  | 17 |      |  |
| 18                        | 85             | 53      | 69      | 6                  | 58                                  | 63                  | 0                     | 4       | BR HZ                                          |                        |             |                           | 0.00                                 | 29.92                                          | 30.01                   | 6.1                                       | 29                             | 6.9              | 23                   | 27  | 17                             | 27  | 18 |      |  |
| 19                        | 91*            | 63      | 77      | 13                 | 60                                  | 66                  | 0                     | 12      |                                                |                        |             |                           | 0.00                                 | 29.78                                          | 29.86                   | 8.6                                       | 28                             | 9.3              | 29                   | 28  | 24                             | 29  | 19 |      |  |
| 20                        | 89             | 64      | 77      | 13                 | 64                                  | 69                  | 0                     | 12      |                                                |                        |             |                           | 0.00                                 | 29.69                                          | 29.77                   | 6.5                                       | 27                             | 7.3              | 21                   | 26  | 17                             | 28  | 20 |      |  |
| 21                        | 84             | 59      | 72      | 8                  | 57                                  | 64                  | 0                     | 7       |                                                |                        |             |                           | 0.00                                 | 29.64                                          | 29.72                   | 9.5                                       | 30                             | 10.5             | 31                   | 30  | 24                             | 30  | 21 |      |  |
| 22                        | 69             | 50      | 60      | -5                 | 44                                  | 51                  | 5                     | 0       |                                                |                        |             |                           | 0.00                                 | 29.81                                          | 29.90                   | 9.9                                       | 32                             | 10.9             | 24                   | 28  | 21                             | 29  | 22 |      |  |
| 23                        | 72             | 44      | 58      | -7                 | 45                                  | 52                  | 7                     | 0       |                                                |                        |             |                           | 0.00                                 | 29.86                                          | 29.95                   | 6.4                                       | 29                             | 7.4              | 18                   | 27  | 17                             | 29  | 23 |      |  |
| 24                        | 76             | 47      | 62      | -3                 | 48                                  | 56                  | 3                     | 0       |                                                |                        |             |                           | 0.00                                 | 29.89                                          | 29.97                   | 3.2                                       | 23                             | 6.7              | 16                   | 23  | 13                             | 23  | 24 |      |  |
| 25                        | 79             | 62      | 71      | 6                  | 65                                  | 66                  | 0                     | 6       | TSRA RA BR HZ                                  |                        |             |                           | 0.33                                 | 29.75                                          | 29.84                   | 4.6                                       | 22                             | 6.9              | 22                   | 23  | 18                             | 25  | 25 |      |  |
| 26                        | 77             | 63      | 70      | 4                  | 60                                  | 64                  | 0                     | 5       | RA BR                                          |                        |             |                           | T                                    | 29.80                                          | 29.89                   | 6.6                                       | 29                             | 7.7              | 23                   | 31  | 20                             | 29  | 26 |      |  |
| 27                        | 78             | 61      | 70      | 4                  | 61                                  | 64                  | 0                     | 5       | BR                                             |                        |             |                           | 0.00                                 | 29.94                                          | 30.02                   | 3.0                                       | 18                             | 3.7              | 14                   | 15  | 11                             | 23  | 27 |      |  |
| 28                        | 81             | 58      | 70      | 4                  | 63                                  | 65                  | 0                     | 5       | BR HZ                                          |                        |             |                           | 0.00                                 | 29.98                                          | 30.06                   | 6.4                                       | 16                             | 7.0              | 21                   | 16  | 17                             | 16  | 28 |      |  |
| 29                        | 84             | 62      | 73      | 6                  | 67                                  | 69                  | 0                     | 8       | TSRA RA BR HZ                                  |                        |             |                           | 0.04                                 | 29.89                                          | 29.98                   | 6.7                                       | 18                             | 7.9              | 40*                  | 30  | 34*                            | 30  | 29 |      |  |
| 30                        | 87             | 66      | 77      | 10                 | 68                                  | 71                  | 0                     | 12      | BR HZ                                          |                        |             |                           | 0.00                                 | 29.86                                          | 29.94                   | 1.8                                       | 22                             | 5.1              | 14                   | 16  | 13                             | 16  | 30 |      |  |
| 31                        | 90             | 69      | 80*     | 12                 | 70                                  | 73                  | 0                     | 15      | TSRA BR HZ                                     |                        |             |                           | T                                    | 29.66                                          | 29.74                   | 11.9                                      | 19                             | 12.3             | 33                   | 21  | 25                             | 18  | 31 |      |  |
| 74.6                      |                | 55.9    | 65.3    | ■ ■                | 57.2                                | 60.5                | 2.9                   | 3.4     | < MONTHLY AVERAGES                             |                        | TOTALS-->   |                           | 4.13                                 | 29.79                                          | 29.87                   | 0.7                                       | 20                             | 8.3              | <-- MONTHLY AVERAGES |     |                                |     |    |      |  |
| 1.7                       |                | 3.7     | 2.8     | ■ ■                | <----- DEPARTURE FROM NORMAL -----> |                     |                       |         |                                                |                        |             |                           | 0.29                                 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 |                         |                                           |                                |                  |                      |     |                                |     |    |      |  |
| DEGREE DAYS               |                |         |         |                    |                                     |                     |                       |         | GREATEST 24-HR PRECIPITATION: 0.97 DATE: 08-09 |                        |             |                           | GREATEST 24-HR SNOWFALL: DATE: DATE: |                                                |                         |                                           | SEA LEVEL PRESSURE DATE TIME   |                  |                      |     | MAXIMUM : 30.18 14 0734        |     |    |      |  |
| MONTHLY TOTAL DEPARTURE   |                |         |         |                    |                                     |                     |                       |         | GREATEST SNOW DEPTH: DATE: DATE:               |                        |             |                           | MINIMUM : 29.53 02 1746              |                                                |                         |                                           | PRECIPITATION ≥ 0.01 INCH : 14 |                  |                      |     | PRECIPITATION ≥ 0.10 INCH : 8  |     |    |      |  |
| HEATING: 89 -33 4369 -568 |                |         |         |                    |                                     |                     |                       |         | NUMBER OF DAYS WITH →                          |                        |             |                           | MAXIMUM TEMP ≥ 90: 2                 |                                                |                         |                                           | MINIMUM TEMP ≤ 32: 0           |                  |                      |     | PRECIPITATION ≥ 0.01 INCH : 14 |     |    |      |  |
| COOLING: 106 62 128 84    |                |         |         |                    |                                     |                     |                       |         |                                                |                        |             |                           | MAXIMUM TEMP ≤ 32 : 0                |                                                |                         |                                           | MINIMUM TEMP ≤ 0 : 0           |                  |                      |     | PRECIPITATION ≥ 0.10 INCH : 8  |     |    |      |  |
|                           |                |         |         |                    |                                     |                     |                       |         |                                                |                        |             |                           | THUNDERSTORMS : 5                    |                                                |                         |                                           | HEAVY FOG : 1                  |                  |                      |     |                                |     |    |      |  |

MAY 1998  
WILMINGTON, DE

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

MAY 1998

ILG

WBAN # 13781

| DATE | FOR HOUR (LST) ENDING AT |      |      |      |      |      |      |      |      |      |      |      | DATE | FOR HOUR (LST) ENDING AT |      |      |      |      |      |      |      |      |      |      |    | DATE         | Sum if<br>Different<br>(See Note 2) | 2400<br>LST |        |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|----|--------------|-------------------------------------|-------------|--------|
|      | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   |      | 13                       | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24 |              |                                     | Water       | Equiv. |
| 01   | 0.01                     | 0.01 |      | 0.01 | T    | 0.01 |      | 0.01 | T    | 0.01 |      | T    | 01   | T                        | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 01 | 0.14         |                                     | 0.15        |        |
| 02   |                          |      |      |      |      |      |      |      |      |      |      | T    | 02   | 0.01                     |      |      |      |      | T    |      |      |      |      |      | 02 |              |                                     | 0.09        |        |
| 03   |                          |      |      |      |      |      | 0.01 | T    |      |      |      | T    | 03   |                          |      |      | 0.01 |      |      |      | T    |      |      |      | 03 |              | T                                   | 0.02        |        |
| 04   | T                        | T    |      |      |      |      |      |      |      |      |      |      | 04   |                          | T    |      |      |      |      |      |      |      |      |      | 04 |              |                                     | 0.02        |        |
| 05   |                          |      |      |      |      |      |      |      | 0.01 |      | 0.02 | 0.03 | 05   | 0.53                     | T    |      | 0.01 | T    |      |      |      |      |      |      | 05 |              |                                     | 0.60        |        |
| 06   |                          |      |      |      |      | 0.04 | T    |      |      |      |      |      | 06   |                          |      |      |      | T    |      |      |      |      |      |      | 06 |              |                                     | 0.04        |        |
| 07   |                          |      | 0.01 |      |      |      |      |      |      |      |      |      | 07   |                          |      |      |      |      | T    |      |      |      |      | T    | 07 |              |                                     | 0.01        |        |
| 08   |                          |      |      | T    | 0.01 | 0.11 | 0.05 | 0.07 | T    | 0.08 | 0.23 | 0.01 | 08   | 0.12                     | 0.11 | 0.10 | 0.01 | 0.01 |      |      |      |      | T    | T    | 08 |              |                                     | 0.91        |        |
| 09   | T                        | T    | T    | 0.02 | 0.06 | 0.02 | 0.06 | 0.01 | 0.01 |      | 0.01 | 0.08 | 09   | 0.04                     | 0.04 | 0.05 | T    | 0.01 | T    |      | 0.01 | T    |      |      | 09 |              |                                     | 0.42        |        |
| 10   |                          | T    |      |      |      | 0.05 | 0.02 | 0.02 | T    | T    | T    | 0.02 | 10   | 0.05                     | T    |      | T    |      |      | T    | 0.03 | 0.02 | 0.06 | 0.05 | 10 |              |                                     | 0.32        |        |
| 11   | T                        | T    | T    |      |      | 0.05 | 0.02 | 0.05 | 0.09 | 0.01 | T    | 0.01 | 11   | 0.01                     | 0.01 | T    | 0.04 | 0.02 | 0.02 | T    | 0.01 | 0.01 | 0.02 | 0.01 | 11 | 0.51<br>0.67 |                                     | 0.54        |        |
| 12   | 0.08                     | 0.01 | 0.01 | 0.10 | 0.07 | T    | T    | 0.10 | 0.04 | 0.03 | 0.03 | 0.06 | 12   | 0.09                     | 0.03 | 0.02 | T    |      |      |      |      |      |      |      | 12 |              |                                     | 0.64        |        |
| 13   |                          |      |      |      |      |      |      |      |      |      |      |      | 13   |                          |      |      |      |      |      |      |      |      |      |      | 13 |              |                                     | 0.00        |        |
| 14   |                          |      |      |      |      |      |      |      |      |      |      |      | 14   |                          |      |      |      |      |      |      |      |      |      |      | 14 |              |                                     | 0.00        |        |
| 15   |                          |      |      |      |      |      |      |      |      |      |      |      | 15   |                          |      |      |      |      |      |      |      |      |      |      | 15 |              |                                     | 0.00        |        |
| 16   |                          |      |      |      |      |      |      |      |      |      |      |      | 16   |                          |      |      |      |      |      |      |      |      |      |      | 16 |              |                                     | 0.00        |        |
| 17   |                          |      |      |      |      |      |      |      |      |      |      |      | 17   |                          |      |      |      |      |      |      |      |      |      |      | 17 |              |                                     | 0.00        |        |
| 18   |                          |      |      |      |      |      |      |      |      |      |      |      | 18   |                          |      |      |      |      |      |      |      |      |      |      | 18 |              |                                     | 0.00        |        |
| 19   |                          |      |      |      |      |      |      |      |      |      |      |      | 19   |                          |      |      |      |      |      |      |      |      |      |      | 19 |              |                                     | 0.00        |        |
| 20   |                          |      |      |      |      |      |      |      |      |      |      |      | 20   |                          |      |      |      |      |      |      |      |      |      |      | 20 |              |                                     | 0.00        |        |
| 21   |                          |      |      |      |      |      |      |      |      |      |      |      | 21   |                          |      |      |      |      |      |      |      |      |      |      | 21 |              |                                     | 0.00        |        |
| 22   |                          |      |      |      |      |      |      |      |      |      |      |      | 22   |                          |      |      |      |      |      |      |      |      |      |      | 22 |              |                                     | 0.00        |        |
| 23   |                          |      |      |      |      |      |      |      |      |      |      |      | 23   |                          |      |      |      |      |      |      |      |      |      |      | 23 |              |                                     | 0.00        |        |
| 24   |                          |      |      |      |      |      |      |      |      |      |      |      | 24   |                          |      |      |      |      |      |      |      |      |      |      | 24 |              |                                     | 0.00        |        |
| 25   |                          |      |      |      |      |      |      | 0.03 | T    |      |      |      | 25   |                          |      |      |      |      | T    | T    | 0.25 | 0.05 |      | T    | T  | 25           |                                     |             | 0.33   |
| 26   | T                        |      |      |      |      |      |      |      |      |      |      |      | 26   |                          |      |      |      |      |      |      |      |      |      |      | 26 |              |                                     | T           |        |
| 27   |                          |      |      |      |      |      |      |      |      |      |      |      | 27   |                          |      |      |      |      |      |      |      |      |      |      | 27 |              |                                     | 0.00        |        |
| 28   |                          |      |      |      |      |      |      |      |      |      |      |      | 28   |                          |      |      |      |      |      |      |      |      |      |      | 28 |              |                                     | 0.00        |        |
| 29   |                          |      |      |      |      |      |      |      |      |      |      |      | 29   |                          |      |      |      |      |      |      | 0.04 | T    |      |      | 29 |              |                                     | 0.04        |        |
| 30   |                          |      |      |      |      |      |      |      |      |      |      |      | 30   |                          |      |      |      |      |      |      |      |      |      |      | 30 |              |                                     | 0.00        |        |
| 31   |                          |      |      |      |      |      |      |      |      |      |      |      | 31   |                          |      |      |      |      |      |      |      |      |      | T    | 31 |              |                                     | T           |        |

## MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

| Time Period (Minutes)  | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|------------------------|---|----|----|----|----|----|----|----|-----|-----|-----|-----|
| Precipitation (Inches) |   |    |    |    |    |    |    |    |     |     |     |     |
| Ending Date            |   |    |    |    |    |    |    |    |     |     |     |     |
| Ending Time (Hour/Min) |   |    |    |    |    |    |    |    |     |     |     |     |

Date and time are not entered for TRACE amounts.

Note 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

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

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

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

## WEATHER NOTATIONS

**WILMINGTON, DE  
MAY 1998**

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).

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

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

| DATE                                                                                                                                                                                                                                                                                                                                                       | SUNSHINE         |                     | CLOUDINESS<br>(OKTAS) |           |            |           | VISIBILITY<br>(MILES) |         | RESERVED |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|-----------------------|-----------|------------|-----------|-----------------------|---------|----------|
|                                                                                                                                                                                                                                                                                                                                                            | TOTAL<br>MINUTES | PERCENT<br>POSSIBLE | SR-SS                 |           | MN-MN      |           | MINIMUM               | MAXIMUM |          |
|                                                                                                                                                                                                                                                                                                                                                            |                  |                     | CEILOMETER            | SATELLITE | CEILOMETER | SATELLITE |                       |         |          |
| 01                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 1.25                  | 10.00   |          |
| 02                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 5.00                  | 10.00   |          |
| 03                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 2.00                  | 10.00   |          |
| 04                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 2.00                  | 10.00   |          |
| 05                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 4.00                  | 10.00   |          |
| 06                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 07                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | <.25                  | 10.00   |          |
| 08                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 1.50                  | 10.00   |          |
| 09                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 4.00                  | 10.00   |          |
| 10                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 2.50                  | 10.00   |          |
| 11                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 1.75                  | 10.00   |          |
| 12                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 2.50                  | 10.00   |          |
| 13                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 9.00                  | 10.00   |          |
| 14                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 4.00                  | 10.00   |          |
| 15                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 16                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 4.00                  | 10.00   |          |
| 17                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 18                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 2.50                  | 10.00   |          |
| 19                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 20                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 7.00                  | 10.00   |          |
| 21                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 9.00                  | 10.00   |          |
| 22                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 23                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 24                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 10.00                 | 10.00   |          |
| 25                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 2.50                  | 10.00   |          |
| 26                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 3.00                  | 10.00   |          |
| 27                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 5.00                  | 10.00   |          |
| 28                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 1.25                  | 10.00   |          |
| 29                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | .75                   | 10.00   |          |
| 30                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 5.00                  | 10.00   |          |
| 31                                                                                                                                                                                                                                                                                                                                                         |                  |                     |                       |           |            |           | 2.00                  | 10.00   |          |
| <b>MONTHLY AVGS</b>                                                                                                                                                                                                                                                                                                                                        |                  |                     |                       |           |            |           | 4.47                  | 10.00   |          |
| <p align="center"><b>SUNSHINE (MINUTES)</b></p> <p>Total:                  Possible:</p> <p align="center">Percent Possible:</p>                                                                                                                                                                                                                           |                  |                     |                       |           |            |           |                       |         |          |
| <p align="center"><b>NUMBER OF DAYS WITH:</b></p> <p align="center"><b>SKY CONDITION</b></p> <p align="center">CLR   PTLY CLDY   CLOUDY   MISSING</p> <p align="center">31</p> <p align="center"><b>MINIMUM VISIBILITY (MILES)</b></p> <p align="center">&lt;=0.25      &lt;=3.0      &gt;=7.0</p> <p align="center">1                15             9</p> |                  |                     |                       |           |            |           |                       |         |          |

## OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

MAY 1998

ILG

WBAN # 13781

| HOUR (LST)           |           |                     | SATELLITE              |                   | WEATHER | TEMPERATURE °F     |          |           |          | WIND                    |             | PRESSURE (INCHES, HG) |         | HOUR (LST) |           |           | SATELLITE           |                        | WEATHER | TEMPERATURE °F    |                    |          |           | WIND     |                         | PRESSURE (INCHES, HG) |                       |         |           |
|----------------------|-----------|---------------------|------------------------|-------------------|---------|--------------------|----------|-----------|----------|-------------------------|-------------|-----------------------|---------|------------|-----------|-----------|---------------------|------------------------|---------|-------------------|--------------------|----------|-----------|----------|-------------------------|-----------------------|-----------------------|---------|-----------|
|                      | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT Oktas |         | VISIBILITY (MILES) | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION |            | SEA LEVEL | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) |         | EFF CLD AMT Oktas | VISIBILITY (MILES) | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH)           | DIRECTION TENS OF DEG | STATION | SEA LEVEL |
|                      |           |                     |                        |                   |         |                    |          |           |          |                         |             |                       |         |            |           |           |                     |                        |         |                   |                    |          |           |          |                         |                       |                       |         |           |
| SUNRISE: 0503 MAY 01 |           |                     |                        |                   |         | SUNSET: 1856       |          |           |          |                         |             | SUNRISE: 0456 MAY 07  |         |            |           |           |                     | SUNSET: 1901           |         |                   |                    |          |           |          |                         |                       |                       |         |           |
| 01                   | BKN       | 110                 |                        |                   | 8.00    | 60                 | 59       | 59        | 96       | 3                       | 14          | 29.82                 | 29.91   | 01         | FEW       | NC        |                     |                        | 2.50    | BR                | 55                 | 54       | 54        | 96       | 5                       | 29                    | 29.87                 | 29.96   |           |
| 04                   | SCT       | NC                  |                        |                   | 10.00   | 59                 | 58       | 58        | 96       | 5                       | 14          | 29.78                 | 29.87   | 04         | VV        | 001       |                     |                        | 0.75    | BR                | 57                 | 57       | 57        | 100      | 3                       | 01                    | 29.85                 | 29.94   |           |
| 07                   | BKN       | 110                 |                        |                   | 10.00   | 60                 | 58       | 59        | 93       | 5                       | 12          | 29.78                 | 29.87   | 07         | OVC       | 001       |                     |                        | 0.75    | BR                | 58                 | 58       | 58        | 100      | 0                       | 00                    | 29.88                 | 29.97   |           |
| 10                   | BKN       | 095                 |                        |                   | 10.00   | 63                 | 60       | 61        | 90       | 7                       | 10          | 29.74                 | 29.83   | 10         | OVC       | 014       |                     |                        | 7.00    |                   | 65                 | 57       | 60        | 76       | 7                       | 09                    | 29.87                 | 29.96   |           |
| 13                   | OVC       | 020                 |                        |                   | 7.00    | 63                 | 61       | 62        | 93       | 10                      | 15          | 29.68                 | 29.77   | 13         | CLR       | NC        |                     |                        | 9.00    |                   | 70                 | 60       | 64        | 71       | 5                       | 12                    | 29.82                 | 29.90   |           |
| 16                   | OVC       | 006                 |                        |                   | 1.50    | 60                 | 60       | 60        | 100      | 12                      | 07          | 29.60                 | 29.69   | 16         | CLR       | NC        |                     |                        | 10.00   |                   | 71                 | 59       | 64        | 66       | 12                      | 17                    | 29.75                 | 29.84   |           |
| 19                   | OVC       | 006                 |                        |                   | 2.00    | 59                 | 59       | 59        | 100      | 13                      | 08          | 29.55                 | 29.64   | 19         | BKN       | 095       |                     |                        | 7.00    |                   | 60                 | 58       | 59        | 93       | 12                      | 15                    | 29.77                 | 29.85   |           |
| 22                   | OVC       | 016                 |                        |                   | 8.00    | 58                 | 58       | 58        | 100      | 6                       | 34          | 29.54                 | 29.63   | 22         | OVC       | 075       |                     |                        | 10.00   |                   | 59                 | 56       | 57        | 90       | 7                       | 13                    | 29.74                 | 29.83   |           |
| SUNRISE: 0502 MAY 02 |           |                     |                        |                   |         | SUNSET: 1857       |          |           |          |                         |             | SUNRISE: 0455 MAY 08  |         |            |           |           |                     | SUNSET: 1902           |         |                   |                    |          |           |          |                         |                       |                       |         |           |
| 01                   | OVC       | 013                 |                        |                   | 10.00   | 57                 | 57       | 57        | 100      | 5                       | 35          | 29.50                 | 29.59   | 01         | OVC       | 080       |                     |                        | 6.00    | BR                | 58                 | 56       | 57        | 93       | 6                       | 08                    | 29.66                 | 29.75   |           |
| 04                   | OVC       | 048                 |                        |                   | 8.00    | 57                 | 57       | 57        | 100      | 0                       | 00          | 29.48                 | 29.57   | 04         | OVC       | 041       |                     |                        | 10.00   |                   | 58                 | 54       | 56        | 87       | 7                       | 10                    | 29.61                 | 29.70   |           |
| 07                   | OVC       | 028                 |                        |                   | 10.00   | 58                 | 56       | 57        | 93       | 0                       | 00          | 29.49                 | 29.58   | 07         | OVC       | 007       |                     |                        | 4.00    | -RA BR            | 57                 | 56       | 56        | 96       | 9                       | 08                    | 29.58                 | 29.67   |           |
| 10                   | OVC       | 010                 |                        |                   | 10.00   | 62                 | 59       | 60        | 90       | 12                      | 15          | 29.49                 | 29.58   | 10         | OVC       | 005       |                     |                        | 3.00    | RA BR             | 59                 | 58       | 58        | 96       | 10                      | 06                    | 29.54                 | 29.63   |           |
| 13                   | OVC       | 004                 |                        |                   | 7.00    | 60                 | 59       | 59        | 96       | 9                       | 14          | 29.48                 | 29.57   | 13         | OVC       | 005       |                     |                        | 3.00    | -RA BR            | 58                 | 57       | 57        | 97       | 15                      | 05                    | 29.48                 | 29.57   |           |
| 16                   | BKN       | 035                 |                        |                   | 10.00   | 67                 | 60       | 63        | 79       | 12                      | 15          | 29.44                 | 29.53   | 16         | OVC       | 005       |                     |                        | 1.50    | -RA BR            | 58                 | 58       | 58        | 100      | 12                      | 04                    | 29.45                 | 29.54   |           |
| 19                   | BKN       | 120                 |                        |                   | 10.00   | 64                 | 58       | 60        | 81       | 8                       | 19          | 29.48                 | 29.57   | 19         | OVC       | 004       |                     |                        | 2.00    | BR                | 58                 | 57       | 57        | 97       | 15                      | 05                    | 29.49                 | 29.58   |           |
| 22                   | OVC       | 100                 |                        |                   | 10.00   | 59                 | 53       | 56        | 81       | 10                      | 25          | 29.51                 | 29.60   | 22         | OVC       | 006       |                     |                        | 6.00    | BR                | 57                 | 55       | 56        | 93       | 18                      | 04                    | 29.52                 | 29.61   |           |
| SUNRISE: 0501 MAY 03 |           |                     |                        |                   |         | SUNSET: 1858       |          |           |          |                         |             | SUNRISE: 0454 MAY 09  |         |            |           |           |                     | SUNSET: 1903           |         |                   |                    |          |           |          |                         |                       |                       |         |           |
| 01                   | OVC       | 055                 |                        |                   | 10.00   | 57                 | 56       | 56        | 96       | 6                       | 21          | 29.53                 | 29.62   | 01         | OVC       | 012       |                     |                        | 5.00    | -RA BR            | 57                 | 55       | 56        | 93       | 17                      | 03                    | 29.51                 | 29.60   |           |
| 04                   | SCT       | NC                  |                        |                   | 8.00    | 56                 | 55       | 55        | 97       | 8                       | 21          | 29.56                 | 29.65   | 04         | OVC       | 018       |                     |                        | 9.00    | -RA               | 56                 | 54       | 55        | 93       | 15                      | 01                    | 29.51                 | 29.59   |           |
| 07                   | SCT       | NC                  |                        |                   | 3.00    | 58                 | 56       | 57        | 93       | 3                       | VR          | 29.60                 | 29.69   | 07         | OVC       | 015       |                     |                        | 5.00    | -RA BR            | 58                 | 56       | 57        | 93       | 14                      | 01                    | 29.54                 | 29.62   |           |
| 10                   | OVC       | 060                 |                        |                   | 10.00   | 64                 | 56       | 59        | 75       | 9                       | 21          | 29.64                 | 29.72   | 10         | OVC       | 022       |                     |                        | 10.00   |                   | 63                 | 58       | 60        | 84       | 18                      | 36                    | 29.55                 | 29.64   |           |
| 13                   | OVC       | 028                 |                        |                   | 10.00   | 66                 | 56       | 60        | 70       | 8                       | 26          | 29.63                 | 29.72   | 13         | OVC       | 017       |                     |                        | 4.00    | -RA BR            | 61                 | 58       | 59        | 90       | 18                      | 35                    | 29.54                 | 29.63   |           |
| 16                   | FEW       | NC                  |                        |                   | 10.00   | 72                 | 58       | 64        | 61       | 7                       | 26          | 29.61                 | 29.70   | 16         | OVC       | 025       |                     |                        | 10.00   |                   | 62                 | 58       | 60        | 86       | 21                      | 36                    | 29.56                 | 29.65   |           |
| 19                   | FEW       | NC                  |                        |                   | 10.00   | 66                 | 58       | 61        | 75       | 10                      | 16          | 29.65                 | 29.74   | 19         | OVC       | 017       |                     |                        | 10.00   |                   | 61                 | 57       | 59        | 87       | 15                      | 35                    | 29.62                 | 29.70   |           |
| 22                   | OVC       | 060                 |                        |                   | 6.00    | 61                 | 60       | 60        | 97       | 5                       | 23          | 29.69                 | 29.78   | 22         | OVC       | 025       |                     |                        | 10.00   |                   | 58                 | 57       | 57        | 97       | 16                      | 36                    | 29.64                 | 29.72   |           |
| SUNRISE: 0460 MAY 04 |           |                     |                        |                   |         | SUNSET: 1859       |          |           |          |                         |             | SUNRISE: 0453 MAY 10  |         |            |           |           |                     | SUNSET: 1904           |         |                   |                    |          |           |          |                         |                       |                       |         |           |
| 01                   | OVC       | 048                 |                        |                   | 6.00    | 60                 | 60       | 60        | 100      | 5                       | 25          | 29.69                 | 29.78   | 01         | OVC       | 022       |                     |                        | 10.00   |                   | 59                 | 56       | 57        | 90       | 10                      | 33                    | 29.62                 | 29.71   |           |
| 04                   | BKN       | 100                 |                        |                   | 4.00    | 60                 | 60       | 60        | 100      | 5                       | 06          | 29.66                 | 29.75   | 04         | OVC       | 021       |                     |                        | 10.00   |                   | 58                 | 56       | 57        | 93       | 10                      | 35                    | 29.59                 | 29.68   |           |
| 07                   | OVC       | 090                 |                        |                   | 3.00    | 60                 | 59       | 59        | 96       | 5                       | 13          | 29.71                 | 29.80   | 07         | OVC       | 006       |                     |                        | 2.50    | -RA BR            | 58                 | 57       | 57        | 97       | 8                       | 02                    | 29.63                 | 29.71   |           |
| 10                   | BKN       | 009                 |                        |                   | 7.00    | 64                 | 61       | 62        | 90       | 7                       | 14          | 29.73                 | 29.82   | 10         | OVC       | 020       |                     |                        | 10.00   | DZ                | 59                 | 57       | 58        | 93       | 10                      | 07                    | 29.64                 | 29.73   |           |
| 13                   | OVC       | 060                 |                        |                   | 10.00   | 67                 | 61       | 63        | 81       | 12                      | 16          | 29.72                 | 29.81   | 13         | OVC       | 013       |                     |                        | 5.00    | -RA BR            | 58                 | 57       | 57        | 97       | 13                      | 04                    | 29.63                 | 29.72   |           |
| 16                   | OVC       | 080                 |                        |                   | 10.00   | 66                 | 63       | 64        | 90       | 8                       | 15          | 29.70                 | 29.79   | 16         | OVC       | 018       |                     |                        | 10.00   | -RA               | 58                 | 56       | 57        | 93       | 8                       | 06                    | 29.61                 | 29.70   |           |
| 19                   | CLR       | NC                  |                        |                   | 10.00   | 63                 | 57       | 60        | 81       | 14                      | 13          | 29.73                 | 29.82   | 19         | OVC       | 022       |                     |                        | 8.00    |                   | 56                 | 53       | 54        | 90       | 15                      | 05                    | 29.64                 | 29.73   |           |
| 22                   | CLR       | NC                  |                        |                   | 10.00   | 60                 | 58       | 59        | 93       | 9                       | 10          | 29.74                 | 29.82   | 22         | OVC       | 007       |                     |                        | 5.00    | -RA BR            | 55                 | 53       | 54        | 93       | 9                       | 03                    | 29.65                 | 29.73   |           |
| SUNRISE: 0459 MAY 05 |           |                     |                        |                   |         | SUNSET: 1900       |          |           |          |                         |             | SUNRISE: 0452 MAY 11  |         |            |           |           |                     | SUNSET: 1905           |         |                   |                    |          |           |          |                         |                       |                       |         |           |
| 01                   | OVC       | 007                 |                        |                   | 6.00    | 58                 | 57       | 57        | 97       | 7                       | 07          | 29.73                 | 29.82   | 01         | OVC       | 017       |                     |                        | 8.00    | -RA               | 54                 | 52       | 53        | 93       | 9                       | 02                    | 29.62                 | 29.70   |           |
| 04                   | OVC       | 008                 |                        |                   | 5.00    | 57                 | 57       | 57        | 100      | 6                       | 08          | 29.78                 | 29.87   | 04         | OVC       | 012       |                     |                        | 10.00   |                   | 54                 | 52       | 53        | 93       | 10                      | 04                    | 29.59                 | 29.68   |           |
| 07                   | OVC       | 028                 |                        |                   | 7.00    | 59                 | 58       | 58        | 96       | 3                       | 07          | 29.83                 | 29.91   | 07         | OVC       | 008       |                     |                        | 5.00    | -RA BR            | 54                 | 53       | 53        | 97       | 12                      | 05                    | 29.61                 | 29.70   |           |
| 10                   | OVC       | 070                 |                        |                   | 10.00   | 63                 | 59       | 61        | 87       | 8                       | 08          | 29.86                 | 29.94   | 10         | OVC       | 008       |                     |                        | 4.00    | -RA BR            | 54                 | 53       | 53        | 97       | 14                      | 05                    | 29.62                 | 29.71   |           |
| 13                   | OVC       | 018                 |                        |                   | 10.00   | 63                 | 57       | 60        | 81       | 13                      | 11          | 29.84                 | 29.93   | 13         | OVC       | 024       |                     |                        | 2.00    | -RA BR            | 54                 | 52       | 53        | 93       | 9                       | 06                    | 29.64                 | 29.72   |           |
| 16                   | OVC       | 035                 |                        |                   | 10.00   | 68                 | 56       | 61        | 66       | 12                      | 14          | 29.81                 | 29.90   | 16         | OVC       | 013       |                     |                        | 2.00    | -RA BR            | 54                 | 53       | 53        | 97       | 7                       | 06                    | 29.64                 | 29.73   |           |
| 19                   | OVC       | 024                 |                        |                   | 10.00   | 64                 | 57       | 60        | 78       | 14                      | 09          | 29.84                 | 29.93   | 19         | OVC       | 022       |                     |                        | 8.00    |                   | 53                 | 52       | 52        | 96       | 12                      | 05                    | 29.67                 | 29.76   |           |
| 22                   | OVC       | 020                 |                        |                   | 10.00   | 60                 | 56       | 58        | 86       | 9                       | 12          | 29.87                 | 29.96   | 22         | OVC       | 018       |                     |                        | 2.00    | -RA               | 52                 | 50       | 51        | 93       | 12                      | 02                    | 29.70                 | 29.79   |           |
| SUNRISE: 0458 MAY 06 |           |                     |                        |                   |         | SUNSET: 1900       |          |           |          |                         |             | SUNRISE: 0451 MAY 12  |         |            |           |           |                     | SUNSET: 1906           |         |                   |                    |          |           |          |                         |                       |                       |         |           |
| 01                   | BKN       | 110                 |                        |                   | 10.00   | 57                 | 55       | 56        | 93       | 7                       | 05          | 29.84                 | 29.93   | 01         | OVC       | 009       |                     |                        | 6.00    | -RA BR            | 52                 | 50       | 51        | 93       | 12                      | 02                    | 29.68                 | 29.77   |           |
| 04                   | OVC       | 010                 |                        |                   | 10.00   | 58                 | 55       | 56        | 90       | 9                       | 05          | 29.83                 | 29.92   | 04         | OVC       | 011       |                     |                        | 4.00    | RA BR             | 53                 | 51       | 52        | 93       | 17                      | 05                    | 29.68                 | 29.77   |           |
| 07                   | OVC       | 007                 |                        |                   | 4.00    | 58                 | 56       | 57        | 93       | 6                       | 06          | 29.87                 | 29.96   | 07         | OVC       | 012       |                     |                        | 8.00    | -RA               | 52                 | 50       | 51        | 93       | 17                      | 04                    | 29.75                 | 29.84   |           |
| 10                   | OVC       | 005                 |                        |                   | 6.00    | 60                 | 57       | 58        | 90       | 7                       | 07          | 29.88                 | 29.97   | 10         | OVC       | 016       |                     |                        | 9.00    | -RA               | 52                 | 49       | 50        | 89       | 21                      | 04                    | 29.80                 | 29.88   |           |
| 13                   | OVC       | 011                 |                        |                   | 8.00    | 62                 | 57       | 59        | 84       | 6                       | 03          | 29.86                 | 29.95   | 13         | OVC       | 010       |                     |                        | 2.50    | -RA BR            | 51                 | 50       | 51        | 96       | 14                      | 05                    | 29.85                 | 29.94   |           |
| 16                   | OVC       | 023                 |                        |                   | 7.00    | 63                 | 59       | 61        | 87       | 8                       | 06          | 29.85                 | 29.94   | 16         | SCT       | NC        |                     |                        | 10.00   |                   | 55                 | 50       | 52        | 83       | 16                      | 05                    | 29.87                 | 29.96   |           |
| 19                   | BKN       | 095                 |                        |                   | 8.00    | 63                 | 58       | 60        | 84       | 3                       | 10          | 29.86                 | 29.95   | 19         | OVC       | 041       |                     |                        | 10.00   |                   | 55                 | 44       | 50        | 67       | 14                      | 05                    | 29.91                 | 30.00   |           |
| 22                   | BKN       | 017                 |                        |                   | 4.00    | 58                 | 57       | 57        | 97       | 0                       | 00          | 29.86                 | 29.95   | 22         | OVC       | 037       |                     |                        | 10.00   |                   | 53                 | 43       | 48        | 69       | 10                      | 05                    | 29.96                 | 30.05   |           |

## OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

MAY 1998

ILG

WBAN # 13781

| HOUR (LST) |           |                     | SATELLITE              |                   | WEATHER       | TEMPERATURE °F     |          |           |              | RELATIVE HUMIDITY (PCT) | WIND        |                       | PRESSURE (INCHES,HG) |           | HOUR (LST) |           |                     | SATELLITE              |                   | WEATHER | TEMPERATURE °F     |          |           |          | RELATIVE HUMIDITY (PCT) | WIND        |                       | PRESSURE (INCHES,HG) |           |
|------------|-----------|---------------------|------------------------|-------------------|---------------|--------------------|----------|-----------|--------------|-------------------------|-------------|-----------------------|----------------------|-----------|------------|-----------|---------------------|------------------------|-------------------|---------|--------------------|----------|-----------|----------|-------------------------|-------------|-----------------------|----------------------|-----------|
|            | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT Oktas |               | VISIBILITY (MILES) | DRY BULB | DEW POINT | WET BULB     |                         | SPEED (MPH) | DIRECTION TENS OF DEG | STATION              | SEA LEVEL |            | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT Oktas |         | VISIBILITY (MILES) | DRY BULB | DEW POINT | WET BULB |                         | SPEED (MPH) | DIRECTION TENS OF DEG | STATION              | SEA LEVEL |
|            |           |                     |                        |                   |               |                    |          |           |              |                         |             |                       |                      |           |            |           |                     |                        |                   |         |                    |          |           |          |                         |             |                       |                      |           |
|            |           |                     |                        |                   | SUNRISE: 0450 | MAY 13             |          |           | SUNSET: 1907 |                         |             |                       |                      |           |            |           |                     |                        | SUNRISE: 0445     | MAY 19  |                    |          |           |          |                         |             |                       |                      |           |
| 01         | OVC       | 029                 |                        |                   | 10.00         | 51                 | 44       | 48        | 77           | 7                       | VR          | 29.97                 | 30.05                | 01        | CLR        | NC        |                     |                        | 10.00             | 66      | 60                 | 62       | 81        | 5        | 27                      | 29.85       | 29.94                 |                      |           |
| 04         | OVC       | 025                 |                        |                   | 10.00         | 51                 | 41       | 46        | 69           | 9                       | 04          | 29.99                 | 30.08                | 04        | CLR        | NC        |                     |                        | 10.00             | 65      | 57                 | 60       | 76        | 3        | 29                      | 29.83       | 29.92                 |                      |           |
| 07         | BKN       | 019                 |                        |                   | 10.00         | 50                 | 40       | 45        | 68           | 13                      | 01          | 30.04                 | 30.13                | 07        | CLR        | NC        |                     |                        | 10.00             | 70      | 59                 | 63       | 68        | 7        | 24                      | 29.83       | 29.92                 |                      |           |
| 10         | CLR       | NC                  |                        |                   | 10.00         | 57                 | 45       | 51        | 64           | 8                       | 05          | 30.06                 | 30.15                | 10        | FEW        | NC        |                     |                        | 10.00             | 85      | 58                 | 68       | 40        | 20       | 29                      | 29.81       | 29.89                 |                      |           |
| 13         | CLR       | NC                  |                        |                   | 10.00         | 63                 | 49       | 55        | 60           | 12                      | 06          | 30.02                 | 30.11                | 13        | CLR        | NC        |                     |                        | 10.00             | 89      | 60                 | 70       | 38        | 16       | 28                      | 29.75       | 29.84                 |                      |           |
| 16         | CLR       | NC                  |                        |                   | 10.00         | 66                 | 48       | 56        | 52           | 9                       | 07          | 29.99                 | 30.08                | 16        | CLR        | NC        |                     |                        | 10.00             | 89      | 61                 | 71       | 39        | 10       | 29                      | 29.72       | 29.80                 |                      |           |
| 19         | CLR       | NC                  |                        |                   | 10.00         | 61                 | 45       | 53        | 56           | 8                       | 09          | 30.03                 | 30.12                | 19        | CLR        | NC        |                     |                        | 10.00             | 83      | 60                 | 68       | 46        | 6        | 25                      | 29.71       | 29.80                 |                      |           |
| 22         | CLR       | NC                  |                        |                   | 9.00          | 52                 | 50       | 51        | 93           | 6                       | 12          | 30.06                 | 30.15                | 22        | CLR        | NC        |                     |                        | 10.00             | 74      | 62                 | 67       | 67        | 7        | 26                      | 29.72       | 29.80                 |                      |           |
|            |           |                     |                        |                   | SUNRISE: 0449 | MAY 14             |          |           | SUNSET: 1908 |                         |             |                       |                      |           |            |           |                     |                        | SUNRISE: 0444     | MAY 20  |                    |          |           |          |                         |             |                       |                      |           |
| 01         | CLR       | NC                  |                        |                   | 10.00         | 47                 | 41       | 44        | 80           | 5                       | 06          | 30.06                 | 30.15                | 01        | CLR        | NC        |                     |                        | 10.00             | 70      | 58                 | 63       | 66        | 5        | 23                      | 29.70       | 29.78                 |                      |           |
| 04         | CLR       | NC                  |                        |                   | 8.00          | 43                 | 42       | 43        | 97           | 3                       | 35          | 30.06                 | 30.15                | 04        | CLR        | NC        |                     |                        | 10.00             | 67      | 59                 | 62       | 76        | 0        | 00                      | 29.70       | 29.79                 |                      |           |
| 07         | CLR       | NC                  |                        |                   | 7.00          | 48                 | 44       | 46        | 86           | 3                       | 34          | 30.09                 | 30.18                | 07        | CLR        | NC        |                     |                        | 7.00              | 71      | 64                 | 67       | 79        | 0        | 00                      | 29.73       | 29.82                 |                      |           |
| 10         | CLR       | NC                  |                        |                   | 10.00         | 61                 | 47       | 54        | 60           | 3                       | VR          | 30.08                 | 30.16                | 10        | CLR        | NC        |                     |                        | 10.00             | 83      | 67                 | 72       | 59        | 12       | 30                      | 29.73       | 29.81                 |                      |           |
| 13         | CLR       | NC                  |                        |                   | 10.00         | 72                 | 40       | 55        | 31           | 0                       | 00          | 30.04                 | 30.12                | 13        | CLR        | NC        |                     |                        | 10.00             | 88      | 68                 | 74       | 52        | 13       | 27                      | 29.68       | 29.76                 |                      |           |
| 16         | CLR       | NC                  |                        |                   | 10.00         | 74                 | 42       | 57        | 32           | 7                       | 21          | 30.00                 | 30.08                | 16        | CLR        | NC        |                     |                        | 10.00             | 89      | 65                 | 73       | 45        | 13       | 25                      | 29.63       | 29.72                 |                      |           |
| 19         | CLR       | NC                  |                        |                   | 10.00         | 60                 | 56       | 58        | 86           | 10                      | 16          | 30.01                 | 30.10                | 19        | CLR        | NC        |                     |                        | 10.00             | 83      | 66                 | 72       | 57        | 7        | 24                      | 29.64       | 29.72                 |                      |           |
| 22         | CLR       | NC                  |                        |                   | 10.00         | 54                 | 53       | 53        | 97           | 5                       | 20          | 30.04                 | 30.12                | 22        | FEW        | NC        |                     |                        | 10.00             | 76      | 67                 | 70       | 74        | 7        | 24                      | 29.65       | 29.74                 |                      |           |
|            |           |                     |                        |                   | SUNRISE: 0448 | MAY 15             |          |           | SUNSET: 1909 |                         |             |                       |                      |           |            |           |                     |                        | SUNRISE: 0443     | MAY 21  |                    |          |           |          |                         |             |                       |                      |           |
| 01         | CLR       | NC                  |                        |                   | 10.00         | 51                 | 49       | 50        | 92           | 3                       | 26          | 30.01                 | 30.10                | 01        | CLR        | NC        |                     |                        | 10.00             | 74      | 62                 | 67       | 67        | 10       | 29                      | 29.64       | 29.72                 |                      |           |
| 04         | CLR       | NC                  |                        |                   | 8.00          | 50                 | 48       | 49        | 93           | 0                       | 00          | 30.00                 | 30.09                | 04        | CLR        | NC        |                     |                        | 10.00             | 68      | 61                 | 64       | 78        | 6        | 25                      | 29.63       | 29.72                 |                      |           |
| 07         | FEW       | NC                  |                        |                   | 10.00         | 57                 | 50       | 53        | 78           | 6                       | 25          | 30.01                 | 30.09                | 07        | CLR        | NC        |                     |                        | 9.00              | 71      | 65                 | 67       | 81        | 3        | 25                      | 29.66       | 29.75                 |                      |           |
| 10         | CLR       | NC                  |                        |                   | 10.00         | 75                 | 56       | 64        | 52           | 3                       | VR          | 29.98                 | 30.07                | 10        | CLR        | NC        |                     |                        | 10.00             | 80      | 61                 | 68       | 52        | 6        | 32                      | 29.65       | 29.73                 |                      |           |
| 13         | CLR       | NC                  |                        |                   | 10.00         | 84                 | 56       | 67        | 38           | 8                       | 01          | 29.93                 | 30.02                | 13        | CLR        | NC        |                     |                        | 10.00             | 80      | 61                 | 68       | 52        | 16       | 29                      | 29.59       | 29.67                 |                      |           |
| 16         | CLR       | NC                  |                        |                   | 10.00         | 87                 | 56       | 68        | 35           | 9                       | 33          | 29.88                 | 29.97                | 16        | SCT        | NC        |                     |                        | 10.00             | 79      | 59                 | 67       | 50        | 13       | 29                      | 29.55       | 29.64                 |                      |           |
| 19         | CLR       | NC                  |                        |                   | 10.00         | 80                 | 57       | 66        | 45           | 3                       | 25          | 29.89                 | 29.98                | 19        | CLR        | NC        |                     |                        | 10.00             | 74      | 40                 | 56       | 29        | 21       | 30                      | 29.61       | 29.69                 |                      |           |
| 22         | CLR       | NC                  |                        |                   | 10.00         | 64                 | 60       | 62        | 87           | 5                       | 14          | 29.90                 | 29.98                | 22        | CLR        | NC        |                     |                        | 10.00             | 64      | 47                 | 55       | 54        | 17       | 32                      | 29.72       | 29.81                 |                      |           |
|            |           |                     |                        |                   | SUNRISE: 0447 | MAY 16             |          |           | SUNSET: 1910 |                         |             |                       |                      |           |            |           |                     |                        | SUNRISE: 0443     | MAY 22  |                    |          |           |          |                         |             |                       |                      |           |
| 01         | CLR       | NC                  |                        |                   | 7.00          | 62                 | 60       | 61        | 93           | 0                       | 00          | 29.89                 | 29.98                | 01        | CLR        | NC        |                     |                        | 10.00             | 57      | 43                 | 50       | 60        | 9        | 30                      | 29.75       | 29.84                 |                      |           |
| 04         | CLR       | NC                  |                        |                   | 6.00          | 61                 | 59       | 60        | 93           | 0                       | 00          | 29.86                 | 29.95                | 04        | CLR        | NC        |                     |                        | 10.00             | 52      | 44                 | 48       | 75        | 6        | 25                      | 29.78       | 29.87                 |                      |           |
| 07         | CLR       | NC                  |                        |                   | 4.00          | 65                 | 61       | 63        | 87           | 0                       | 00          | 29.91                 | 30.00                | 07        | CLR        | NC        |                     |                        | 10.00             | 57      | 41                 | 49       | 55        | 13       | 34                      | 29.81       | 29.90                 |                      |           |
| 10         | CLR       | NC                  |                        |                   | 7.00          | 80                 | 66       | 71        | 62           | 6                       | 15          | 29.88                 | 29.97                | 10        | CLR        | NC        |                     |                        | 10.00             | 62      | 43                 | 52       | 50        | 12       | 33                      | 29.81       | 29.89                 |                      |           |
| 13         | CLR       | NC                  |                        |                   | 8.00          | 87                 | 67       | 74        | 51           | 5                       | 15          | 29.85                 | 29.93                | 13        | CLR        | NC        |                     |                        | 10.00             | 66      | 46                 | 55       | 49        | 13       | 31                      | 29.80       | 29.88                 |                      |           |
| 16         | CLR       | NC                  |                        |                   | 10.00         | 86                 | 65       | 72        | 50           | 9                       | 16          | 29.83                 | 29.92                | 16        | CLR        | NC        |                     |                        | 10.00             | 68      | 45                 | 56       | 44        | 16       | 31                      | 29.77       | 29.86                 |                      |           |
| 19         | CLR       | NC                  |                        |                   | 6.00          | 72                 | 65       | 68        | 79           | 7                       | 15          | 29.85                 | 29.93                | 19        | CLR        | NC        |                     |                        | 10.00             | 64      | 44                 | 54       | 48        | 8        | 35                      | 29.82       | 29.91                 |                      |           |
| 22         | BKN       | 080                 |                        |                   | 8.00          | 72                 | 60       | 65        | 66           | 7                       | 09          | 29.89                 | 29.97                | 22        | CLR        | NC        |                     |                        | 10.00             | 56      | 42                 | 49       | 60        | 10       | 36                      | 29.89       | 29.98                 |                      |           |
|            |           |                     |                        |                   | SUNRISE: 0447 | MAY 17             |          |           | SUNSET: 1911 |                         |             |                       |                      |           |            |           |                     |                        | SUNRISE: 0442     | MAY 23  |                    |          |           |          |                         |             |                       |                      |           |
| 01         | SCT       | NC                  |                        |                   | 8.00          | 66                 | 59       | 62        | 78           | 0                       | 00          | 29.87                 | 29.95                | 01        | CLR        | NC        |                     |                        | 10.00             | 51      | 41                 | 46       | 69        | 9        | 33                      | 29.89       | 29.98                 |                      |           |
| 04         | CLR       | NC                  |                        |                   | 8.00          | 63                 | 57       | 60        | 81           | 9                       | 05          | 29.87                 | 29.96                | 04        | CLR        | NC        |                     |                        | 10.00             | 49      | 41                 | 45       | 74        | 8        | 25                      | 29.88       | 29.97                 |                      |           |
| 07         | CLR       | NC                  |                        |                   | 9.00          | 62                 | 56       | 59        | 81           | 10                      | 04          | 29.92                 | 30.01                | 07        | CLR        | NC        |                     |                        | 10.00             | 55      | 44                 | 50       | 67        | 7        | 31                      | 29.90       | 29.99                 |                      |           |
| 10         | CLR       | NC                  |                        |                   | 10.00         | 68                 | 58       | 62        | 70           | 5                       | 04          | 29.94                 | 30.03                | 10        | CLR        | NC        |                     |                        | 10.00             | 64      | 40                 | 52       | 41        | 3        | VR                      | 29.90       | 29.98                 |                      |           |
| 13         | CLR       | NC                  |                        |                   | 9.00          | 74                 | 63       | 67        | 69           | 9                       | 09          | 29.92                 | 30.01                | 13        | CLR        | NC        |                     |                        | 10.00             | 69      | 45                 | 56       | 42        | 9        | 30                      | 29.84       | 29.93                 |                      |           |
| 16         | CLR       | NC                  |                        |                   | 8.00          | 77                 | 64       | 69        | 64           | 8                       | 06          | 29.89                 | 29.97                | 16        | CLR        | NC        |                     |                        | 10.00             | 71      | 43                 | 56       | 36        | 9        | 29                      | 29.80       | 29.88                 |                      |           |
| 19         | CLR       | NC                  |                        |                   | 9.00          | 68                 | 64       | 66        | 87           | 15                      | 16          | 29.90                 | 29.98                | 19        | CLR        | NC        |                     |                        | 10.00             | 67      | 44                 | 55       | 44        | 7        | 25                      | 29.81       | 29.90                 |                      |           |
| 22         | CLR       | NC                  |                        |                   | 10.00         | 62                 | 60       | 61        | 93           | 6                       | 17          | 29.93                 | 30.02                | 22        | CLR        | NC        |                     |                        | 10.00             | 60      | 54                 | 57       | 80        | 8        | 25                      | 29.85       | 29.94                 |                      |           |
|            |           |                     |                        |                   | SUNRISE: 0446 | MAY 18             |          |           | SUNSET: 1912 |                         |             |                       |                      |           |            |           |                     |                        | SUNRISE: 0441     | MAY 24  |                    |          |           |          |                         |             |                       |                      |           |
| 01         | CLR       | NC                  |                        |                   | 5.00          | 58                 | 58       | 58        | 100          | 5                       | 28          | 29.96                 | 30.04                | 01        | CLR        | NC        |                     |                        | 10.00             | 53      | 49                 | 51       | 86        | 6        | 33                      | 29.86       | 29.95                 |                      |           |
| 04         | CLR       | NC                  |                        |                   | 4.00          | 57                 | 57       | 57        | 100          | 3                       | 25          | 29.96                 | 30.05                | 04        | CLR        | NC        |                     |                        | 10.00             | 49      | 45                 | 47       | 86        | 6        | 30                      | 29.88       | 29.97                 |                      |           |
| 07         | CLR       | NC                  |                        |                   | 6.00          | 65                 | 60       | 62        | 84           | 6                       | 30          | 29.99                 | 30.08                | 07        | CLR        | NC        |                     |                        | 10.00             | 59      | 44                 | 51       | 58        | 5        | 27                      | 29.91       | 30.00                 |                      |           |
| 10         | CLR       | NC                  |                        |                   | 10.00         | 77                 | 52       | 62        | 42           | 8                       | 32          | 29.98                 | 30.07                | 10        | CLR        | NC        |                     |                        | 10.00             | 72      | 42                 | 56       | 34        | 3        | VR                      | 29.94       | 30.02                 |                      |           |
| 13         | CLR       | NC                  |                        |                   | 10.00         | 82                 | 55       | 66        | 40           | 12                      | 30          | 29.93                 | 30.02                | 13        | CLR        | NC        |                     |                        | 10.00             | 74      | 46                 | 59       | 37        | 9        | 15                      | 29.90       | 29.98                 |                      |           |
| 16         | FEW       | NC                  |                        |                   | 10.00         | 84                 | 58       | 68        | 41           | 14                      | 31          | 29.87                 | 29.95                | 16        | CLR        | NC        |                     |                        | 10.00             | 75      | 43                 | 58       | 32        | 6        | VR                      | 29.85       | 29.94                 |                      |           |
| 19         | CLR       | NC                  |                        |                   | 10.00         | 79                 | 60       | 67        | 52           | 8                       | 22          | 29.85                 | 29.94                | 19        | SCT        | NC        |                     |                        | 10.00             | 69      | 54                 | 60       | 59        | 8        | 23                      | 29.86       | 29.95                 |                      |           |
| 22         | CLR       | NC                  |                        |                   | 10.00         | 70                 | 60       | 64        | 71           | 5                       | 27          | 29.86                 | 29.95                | 22        | BKN        | 110       |                     | </                     |                   |         |                    |          |           |          |                         |             |                       |                      |           |

## OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

MAY 1998

ILG

WBAN # 13781

| HOUR (LST) |           |                     | SATELLITE              |                   | WEATHER       | TEMPERATURE ° F |           |          | RELATIVE HUMIDITY (PCT) | WIND         |                       | PRESSURE (INCHES,HG) |           | HOUR (LST) |                                                                                                                                                                                                                                                                                                                                                                               |                     | SATELLITE              |                   | WEATHER                    | TEMPERATURE ° F |           |          | RELATIVE HUMIDITY (PCT) | WIND        |                       | PRESSURE (INCHES,HG) |           |       |       |
|------------|-----------|---------------------|------------------------|-------------------|---------------|-----------------|-----------|----------|-------------------------|--------------|-----------------------|----------------------|-----------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|-------------------|----------------------------|-----------------|-----------|----------|-------------------------|-------------|-----------------------|----------------------|-----------|-------|-------|
|            | SKY COVER | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT Oktas |               | DRY BULB        | DEW POINT | WET BULB |                         | SPEED (MPH)  | DIRECTION TENS OF DEG | STATION              | SEA LEVEL |            | SKY COVER                                                                                                                                                                                                                                                                                                                                                                     | CEILING 100'S OF FT | OBSERVATION TIME (LST) | EFF CLD AMT Oktas |                            | DRY BULB        | DEW POINT | WET BULB |                         | SPEED (MPH) | DIRECTION TENS OF DEG | STATION              | SEA LEVEL |       |       |
|            |           |                     |                        |                   | SUNRISE: 0441 | MAY 25          |           |          | SUNSET: 1918            |              |                       |                      |           |            |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   | SUNRISE: 0437              | MAY 31          |           |          |                         |             |                       |                      |           |       |       |
| 01         | BKN       | 100                 |                        |                   | 10.00         |                 | 63        | 56       | 59                      | 78           | 10                    | 19                   | 29.84     | 29.92      | 01                                                                                                                                                                                                                                                                                                                                                                            | CLR                 | NC                     |                   |                            | 4.00            | BR        | 70       | 68                      | 69          | 93                    | 0                    | 00        | 29.82 | 29.91 |
| 04         | BKN       | 090                 |                        |                   | 10.00         |                 | 62        | 59       | 60                      | 90           | 6                     | 18                   | 29.79     | 29.88      | 04                                                                                                                                                                                                                                                                                                                                                                            | CLR                 | NC                     |                   |                            | 3.00            | BR        | 70       | 69                      | 69          | 97                    | 5                    | 16        | 29.79 | 29.87 |
| 07         | OVC       | 016                 |                        |                   | 6.00          | BR              | 63        | 62       | 62                      | 97           | 9                     | 17                   | 29.78     | 29.87      | 07                                                                                                                                                                                                                                                                                                                                                                            | CLR                 | NC                     |                   |                            | 2.50            | BR        | 74       | 72                      | 73          | 94                    | 6                    | 17        | 29.77 | 29.86 |
| 10         | OVC       | 012                 |                        |                   | 5.00          | BR              | 68        | 66       | 67                      | 93           | 8                     | 24                   | 29.76     | 29.85      | 10                                                                                                                                                                                                                                                                                                                                                                            | CLR                 | NC                     |                   |                            | 3.00            | HZ        | 84       | 73                      | 76          | 70                    | 13                   | 20        | 29.75 | 29.83 |
| 13         | FEW       | NC                  |                        |                   | 6.00          | HZ              | 77        | 69       | 72                      | 77           | 12                    | 29                   | 29.73     | 29.81      | 13                                                                                                                                                                                                                                                                                                                                                                            | CLR                 | NC                     |                   |                            | 5.00            | HZ        | 89       | 67                      | 74          | 48                    | 18                   | 21        | 29.66 | 29.74 |
| 16         | CLR       | NC                  |                        |                   | 6.00          | HZ              | 78        | 68       | 71                      | 71           | 3                     | 24                   | 29.71     | 29.80      | 16                                                                                                                                                                                                                                                                                                                                                                            | CLR                 | NC                     |                   |                            | 10.00           | HZ        | 88       | 68                      | 74          | 52                    | 23                   | 18        | 29.55 | 29.64 |
| 19         | SCT       | NC                  |                        |                   | 5.00          | BR              | 74        | 70       | 71                      | 88           | 5                     | 18                   | 29.71     | 29.79      | 19                                                                                                                                                                                                                                                                                                                                                                            | CLR                 | NC                     |                   |                            | 10.00           |           | 82       | 70                      | 74          | 67                    | 15                   | 19        | 29.51 | 29.59 |
| 22         | OVC       | 100                 |                        |                   | 5.00          | BR              | 66        | 66       | 66                      | 100          | 5                     | 29                   | 29.74     | 29.83      | 22                                                                                                                                                                                                                                                                                                                                                                            | FEW                 | NC                     |                   |                            | 9.00            |           | 79       | 71                      | 74          | 77                    | 10                   | 19        | 29.49 | 29.58 |
|            |           |                     |                        |                   | SUNRISE: 0440 | MAY 26          |           |          |                         | SUNSET: 1919 |                       |                      |           |            |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   | 3—HOURLY OBSERVATION NOTES |                 |           |          |                         |             |                       |                      |           |       |       |
| 01         | OVC       | 085                 |                        |                   | 5.00          | BR              | 67        | 67       | 67                      | 100          | 0                     | 00                   | 29.72     | 29.81      | Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8–2/8, SCT = 3/8–4/8, BKN = 5/8–7/8, OVC = 8/8, VV = Vertical Visibility = 8/8. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes. |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 04         | FEW       | NC                  |                        |                   | 3.00          | BR              | 64        | 64       | 64                      | 100          | 3                     | 28                   | 29.73     | 29.82      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 07         | SCT       | NC                  |                        |                   | 8.00          |                 | 68        | 61       | 64                      | 78           | 8                     | 28                   | 29.78     | 29.86      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 10         | CLR       | NC                  |                        |                   | 10.00         |                 | 72        | 56       | 62                      | 57           | 14                    | 32                   | 29.78     | 29.87      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 13         | BKN       | 050                 |                        |                   | 10.00         |                 | 74        | 58       | 64                      | 57           | 15                    | 30                   | 29.78     | 29.87      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 16         | CLR       | NC                  |                        |                   | 10.00         |                 | 76        | 58       | 65                      | 54           | 10                    | 33                   | 29.80     | 29.89      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 19         | CLR       | NC                  |                        |                   | 10.00         |                 | 73        | 57       | 63                      | 57           | 6                     | 25                   | 29.84     | 29.93      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 22         | CLR       | NC                  |                        |                   | 10.00         |                 | 66        | 58       | 61                      | 75           | 6                     | 23                   | 29.89     | 29.97      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
|            |           |                     |                        |                   | SUNRISE: 0439 | MAY 27          |           |          |                         | SUNSET: 1920 |                       |                      |           |            |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 01         | CLR       | NC                  |                        |                   | 10.00         |                 | 63        | 57       | 60                      | 81           | 6                     | 25                   | 29.90     | 29.99      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 04         | CLR       | NC                  |                        |                   | 10.00         |                 | 63        | 58       | 60                      | 84           | 0                     | 00                   | 29.92     | 30.01      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 07         | CLR       | NC                  |                        |                   | 8.00          |                 | 66        | 59       | 62                      | 78           | 0                     | 00                   | 29.96     | 30.04      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 10         | CLR       | NC                  |                        |                   | 9.00          |                 | 70        | 61       | 64                      | 73           | 5                     | 16                   | 29.96     | 30.05      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 13         | CLR       | NC                  |                        |                   | 10.00         |                 | 77        | 62       | 68                      | 60           | 9                     | 14                   | 29.95     | 30.04      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 16         | CLR       | NC                  |                        |                   | 9.00          |                 | 75        | 63       | 67                      | 66           | 6                     | 25                   | 29.92     | 30.00      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 19         | CLR       | NC                  |                        |                   | 10.00         |                 | 72        | 61       | 65                      | 69           | 7                     | 18                   | 29.92     | 30.01      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 22         | CLR       | NC                  |                        |                   | 6.00          | BR              | 66        | 62       | 64                      | 87           | 0                     | 00                   | 29.96     | 30.05      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
|            |           |                     |                        |                   | SUNRISE: 0439 | MAY 28          |           |          |                         | SUNSET: 1920 |                       |                      |           |            |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 01         | CLR       | NC                  |                        |                   | 4.00          | BR              | 61        | 60       | 60                      | 97           | 3                     | 28                   | 29.96     | 30.05      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 04         | CLR       | NC                  |                        |                   | 2.50          | BR              | 58        | 58       | 58                      | 100          | 3                     | 24                   | 29.95     | 30.04      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 07         | CLR       | NC                  |                        |                   | 2.50          | BR              | 64        | 62       | 63                      | 93           | 0                     | 00                   | 29.99     | 30.07      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 10         | CLR       | NC                  |                        |                   | 5.00          | HZ              | 74        | 66       | 69                      | 76           | 7                     | 17                   | 30.01     | 30.09      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 13         | CLR       | NC                  |                        |                   | 10.00         |                 | 80        | 65       | 70                      | 60           | 10                    | 15                   | 29.98     | 30.07      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 16         | CLR       | NC                  |                        |                   | 10.00         |                 | 78        | 62       | 68                      | 58           | 15                    | 15                   | 29.95     | 30.03      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 19         | CLR       | NC                  |                        |                   | 8.00          |                 | 71        | 66       | 68                      | 84           | 9                     | 16                   | 29.95     | 30.03      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 22         | CLR       | NC                  |                        |                   | 4.00          | BR              | 66        | 66       | 66                      | 100          | 7                     | 14                   | 29.97     | 30.06      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
|            |           |                     |                        |                   | SUNRISE: 0438 | MAY 29          |           |          |                         | SUNSET: 1921 |                       |                      |           |            |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 01         | CLR       | NC                  |                        |                   | 5.00          | BR              | 65        | 63       | 64                      | 93           | 5                     | 16                   | 29.95     | 30.03      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 04         | CLR       | NC                  |                        |                   | 3.00          | BR              | 62        | 62       | 62                      | 100          | 5                     | 17                   | 29.95     | 30.03      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 07         | OVC       | 002                 |                        |                   | 2.50          | BR              | 66        | 66       | 66                      | 100          | 8                     | 20                   | 29.96     | 30.04      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 10         | SCT       | NC                  |                        |                   | 2.50          | BR              | 74        | 70       | 71                      | 88           | 8                     | 19                   | 29.93     | 30.01      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 13         | CLR       | NC                  |                        |                   | 6.00          | HZ              | 80        | 72       | 75                      | 76           | 13                    | 16                   | 29.87     | 29.96      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 16         | CLR       | NC                  |                        |                   | 7.00          |                 | 82        | 71       | 75                      | 69           | 14                    | 16                   | 29.79     | 29.88      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 19         | CLR       | NC                  |                        |                   | 6.00          | HZ              | 80        | 66       | 71                      | 62           | 8                     | 21                   | 29.82     | 29.91      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 22         | BKN       | 100                 |                        |                   | 10.00         |                 | 69        | 67       | 68                      | 93           | 6                     | 19                   | 29.86     | 29.95      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
|            |           |                     |                        |                   | SUNRISE: 0438 | MAY 30          |           |          |                         | SUNSET: 1922 |                       |                      |           |            |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 01         | CLR       | NC                  |                        |                   | 8.00          |                 | 68        | 66       | 67                      | 93           | 5                     | 27                   | 29.85     | 29.94      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 04         | CLR       | NC                  |                        |                   | 6.00          | BR              | 67        | 66       | 66                      | 97           | 5                     | 30                   | 29.84     | 29.92      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 07         | CLR       | NC                  |                        |                   | 6.00          | BR              | 71        | 67       | 68                      | 87           | 3                     | 21                   | 29.88     | 29.96      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 10         | CLR       | NC                  |                        |                   | 8.00          |                 | 81        | 69       | 73                      | 67           | 5                     | 34                   | 29.88     | 29.96      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 13         | FEW       | NC                  |                        |                   | 10.00         |                 | 85        | 70       | 75                      | 61           | 3                     | VR                   | 29.87     | 29.96      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 16         | CLR       | NC                  |                        |                   | 10.00         |                 | 87        | 65       | 72                      | 48           | 6                     | 29                   | 29.84     | 29.92      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 19         | CLR       | NC                  |                        |                   | 9.00          |                 | 81        | 71       | 74                      | 72           | 6                     | 17                   | 29.83     | 29.91      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |
| 22         | CLR       | NC                  |                        |                   | 5.00          | BR              | 73        | 70       | 71                      | 90           | 3                     | 11                   | 29.86     | 29.95      |                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                   |                            |                 |           |          |                         |             |                       |                      |           |       |       |

## 3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8,

SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

NC = No ceiling detected.

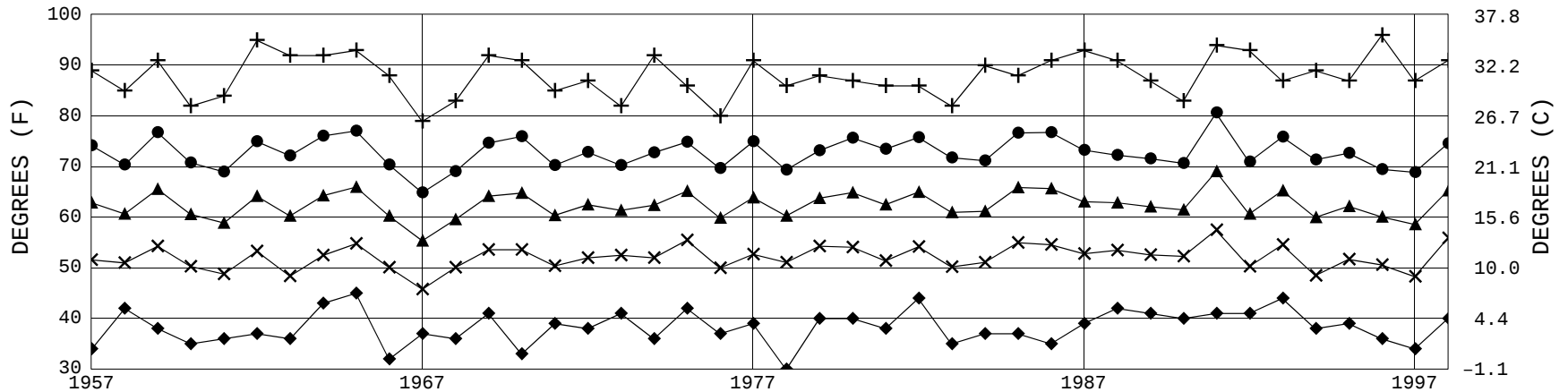
&amp; = Original observation contained additional weather elements.

See page 3 for additional notes.

## SUMMARY BY HOUR

| HOUR (LST) | AVERAGES   |             |          |           |          |                   |                       |           |                    |                  | RESULTANT WIND (MPH) |           |
|------------|------------|-------------|----------|-----------|----------|-------------------|-----------------------|-----------|--------------------|------------------|----------------------|-----------|
|            | CEILOMETER | EFF CLD AMT | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY | PRESSURE (INCHES, HG) |           | VISIBILITY (MILES) | WIND SPEED (MPH) | SPEED                | DIRECTION |
|            |            |             |          |           |          |                   | STATION               | SEA LEVEL |                    |                  |                      |           |
| 01         |            |             | 60       | 56        | 57       | 88                | 29.79                 | 29.88     | 7.85               | 6                | 2                    | 33        |
| 02         |            |             | 59       | 56        | 57       | 90                | 29.78                 | 29.87     | 7.78               | 6                | 2                    | 1         |
| 03         |            |             | 59       | 55        | 57       | 89                | 29.79                 | 29.87     | 7.76               | 5                | 2                    | 2         |
| 04         |            |             | 58       | 55        | 57       | 91                | 29.78                 | 29.87     | 7.43               | 6                | 2                    | 2         |
| 05         |            |             | 57       | 55        | 56       | 92                | 29.79                 | 29.88     | 6.90               | 6                | 2                    | 1         |
| 06         |            |             | 59       | 56        | 57       | 92                | 29.80                 | 29.89     | 5.93               | 5                | 2                    | 1         |
| 07         |            |             | 61       | 56        | 58       | 86                | 29.81                 | 29.90     | 6.44               | 6                | 2                    | 1         |
| 08         |            |             | 64       | 57        | 60       | 81                | 29.81                 | 29.90     | 7.21               | 8                | 2                    | 2         |
| 09         |            |             | 66       | 57        | 61       | 75                | 29.81                 | 29.90     | 7.82               | 9                | 2                    | 2         |
| 10         |            |             | 68       | 57        | 62       | 71                | 29.81                 | 29.90     | 8.24               | 9                | 2                    | 3         |
| 11         |            |             | 70       | 58        | 63       | 68                | 29.81                 | 29.90     | 8.21               | 10               | 2                    | 7         |
| 12         |            |             | 71       | 58        | 63       | 67                | 29.79                 | 29.88     | 8.27               | 9                | 1                    | 11        |
| 13         |            |             | 72       | 58        | 63       | 66                | 29.78                 | 29.87     | 8.11               | 11               | 1                    | 36        |
| 14         |            |             | 73       | 58        | 64       | 64                | 29.77                 | 29.86     | 8.53               | 11               | 1                    | 33        |
| 15         |            |             | 73       | 58        | 64       | 63                | 29.76                 | 29.84     | 8.38               | 11               | 1                    | 28        |
| 16         |            |             | 73       | 58        | 64       | 63                | 29.75                 | 29.84     | 8.77               | 11               | 0                    | 0         |
| 17         |            |             | 72       | 58        | 63       | 63                | 29.75                 | 29.84     | 9.12               | 10               | 1                    | 17        |
| 18         |            |             | 71       | 58        | 63       | 66                | 29.75                 | 29.84     | 8.90               | 11               | 2                    | 16        |
| 19         |            |             | 68       | 58        | 62       | 71                | 29.77                 | 29.85     | 8.65               | 10               | 3                    | 14        |
| 20         |            |             | 66       | 58        | 61       | 78                | 29.78                 | 29.86     | 8.56               | 9                | 3                    | 16        |
| 21         |            |             | 64       | 58        | 61       | 83                | 29.79                 | 29.88     | 8.55               | 9                | 1                    | 10        |
| 22         |            |             | 63       | 58        | 60       | 85                | 29.79                 | 29.88     | 8.29               | 8                | 0                    | 0         |
| 23         |            |             | 62       | 57        | 59       | 86                | 29.79                 | 29.88     | 8.35               | 7                | 2                    | 2         |
| 24         |            |             | 61       | 57        | 58       | 87                | 29.79                 | 29.88     | 8.26               | 6                | 1                    | 35        |

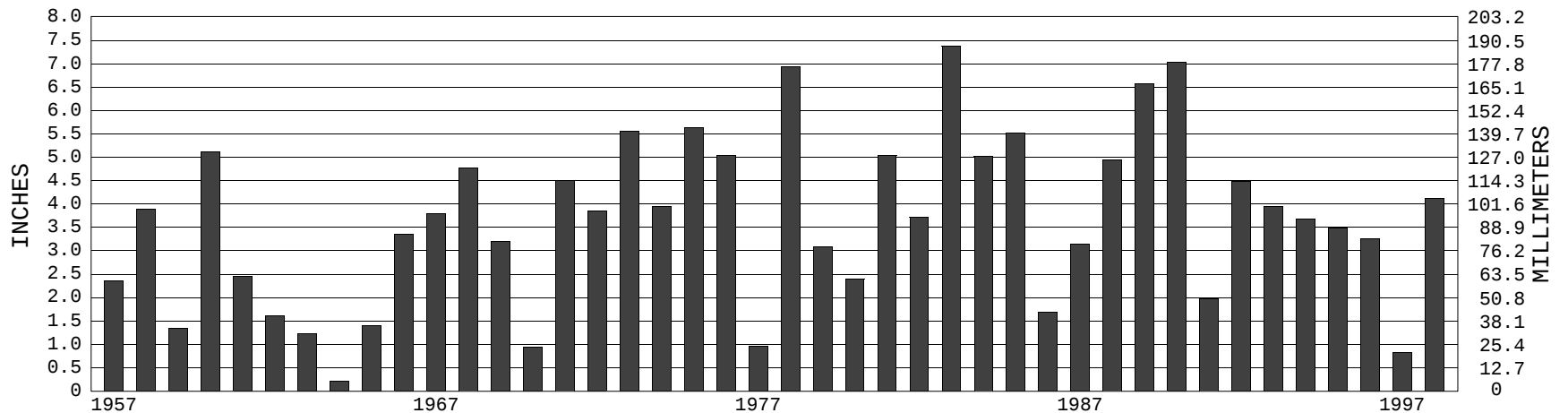
## WILMINGTON, DE MAY TEMPERATURES



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

Long-Term (1957-1998) Mean: 62.5    1961-1990 Normal: 62.5

## WILMINGTON, DE MAY PRECIPITATION



Long-Term (1957-1998) Mean Monthly Total: 3.66

1961-1990 Normal: 3.84



**MAY 1998  
WILMINGTON, DE**

# **LOCAL CLIMATOLOGICAL DATA**

NOAA, National Climatic Data Center

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

DIRECTOR

## **NOTICE**

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

We welcome your questions or comments, please contact us at  
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