



SEPTEMBER 2003

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

WILMINGTON, DE

NEW CASTLE COUNTY AIRPORT (ILG)
 Lat: 39° 40' N Long: 75° 36' W Elev (Ground): 92 Feet
 Time Zone: EASTERN WBAN: 13781 ISSN #: 0198-117X

| DATE | TEMPERATURE °F | | | | | | DEG DAYS BASE 65° | | WEATHER | SNOW/ICE ON GND (IN) | | PRECIPITATION (INCHES) | | PRESSURE (INCHES OF HG) | | WIND SPEED = MPH DIR = TENS OF DEGREES | | | | | | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|----------------|---------|---------|-----------------|----------------|------------------|-------------------|---------|---------------------|--|----------|------------------------|----------|-----------------------------------|-------------------|--|---------|---------------|---------|----------------------|----------------------|------|----|------|--|--|--|--|--|----------------------|--|--|--|-----------|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|
| | MAXIMUM | MINIMUM | AVERAGE | DEP FROM NORMAL | AVERAGE DEW PT | AVERAGE WET BULB | HEATING | COOLING | | 0700 LST | 1300 LST | 2400 LST | 2400 LST | AVERAGE STATION | AVERAGE SEA LEVEL | RESULTANT SPEED | RES DIR | AVERAGE SPEED | MAXIMUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 5-SEC | | 2-MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 81 | 68 | 75 | 3 | 71 | 72 | 0 | 10 | TSRA RA BR VCTS | 0 | | 0.0 | 0.44 | 30.06 | 30.15 | 3.5 | 17 | 6.3 | 22 | 23 | 20 | 22 | 01 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02 | 81 | 64 | 73 | 1 | 69 | 69 | 0 | 8 | RA BR | 0 | | 0.0 | T | 30.00 | 30.08 | 2.9 | 04 | 9.2 | 23 | 04 | 21 | 04 | 02 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 | 76 | 64 | 70 | -2 | 69 | 69 | 0 | 5 | RA BR | 0 | | 0.0 | 0.16 | 29.96 | 30.05 | 4.8 | 09 | 7.7 | 16 | 17 | 13 | 16 | 03 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | 76 | 67 | 72 | 0 | 72 | 72 | 0 | 7 | TSRA RA BR VCTS | 0 | | 0.0 | 0.97 | 29.77 | 29.85 | 2.9 | 23 | 3.7 | 16 | 27 | 13 | 28 | 04 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | 77 | 60 | 69 | -2 | 60 | 63 | 0 | 4 | BR | 0 | | 0.0 | 0.00 | 29.90 | 29.99 | 8.4 | 31 | 8.7 | 21 | 30 | 17 | 32 | 05 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | 78 | 55 | 67 | -4 | 55 | 60 | 0 | 2 | | 0 | | 0.0 | 0.00 | 30.01 | 30.10 | 3.8 | 33 | 5.4 | 13 | 32 | 12 | 02 | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 07 | 79 | 54 | 67 | -4 | 59 | 62 | 0 | 2 | | 0 | | 0.0 | 0.00 | 29.97 | 30.05 | 4.2 | 28 | 4.8 | 13 | 28 | 10 | 28 | 07 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 08 | 82 | 57 | 70 | 0 | 62 | 65 | 0 | 5 | BR | 0 | | 0.0 | 0.00 | 29.99 | 30.07 | 5.8 | 05 | 7.2 | 18 | 04 | 15 | 09 | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 | 75 | 60 | 68 | -2 | 56 | 61 | 0 | 3 | | 0 | | 0.0 | 0.00 | 30.16 | 30.24 | 11.8 | 06 | 12.1 | 30 | 04 | 22 | 07 | 09 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 77 | 55 | 66 | -3 | 56 | 60 | 0 | 1 | | 0 | | 0.0 | 0.00 | 30.16 | 30.24 | 6.3 | 36 | 7.6 | 20 | 01 | 17 | 01 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 80 | 56 | 68 | -1 | 57 | 62 | 0 | 3 | | 0 | | 0.0 | 0.00 | 30.13 | 30.22 | 8.1 | 05 | 9.6 | 21 | 05 | 17 | 06 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 69 | 63 | 66 | -3 | 61 | 63 | 0 | 1 | RA BR | 0 | | 0.0 | 0.38 | 30.12 | 30.20 | 16.1 | 04 | 16.2 | 31 | 04 | 24 | 05 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 81 | 66 | 74 | 5 | 71 | 71 | 0 | 9 | RA BR | 0 | | 0.0 | 0.62 | 30.05 | 30.13 | 11.8 | 06 | 13.4 | 29 | 06 | 24 | 05 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 81 | 72 | 77* | 8 | 73 | 74 | 0 | 12 | RA BR VCTS | 0 | | 0.0 | 0.26 | 30.09 | 30.18 | 8.2 | 14 | 9.3 | 20 | 15 | 17 | 16 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 80 | 68 | 74 | 5 | 72 | 72 | 0 | 9 | TS TSRA RA BR VCTS | 0 | | 0.0 | 1.27 | 29.97 | 30.05 | 3.8 | 11 | 5.8 | 20 | 13 | 16 | 13 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 78 | 58 | 68 | 0 | 57 | 62 | 0 | 3 | BR | 0 | | 0.0 | 0.00 | 30.04 | 30.12 | 8.5 | 31 | 9.6 | 20 | 30 | 16 | 34 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 78 | 54 | 66 | -1 | 55 | 60 | 0 | 1 | | 0 | | 0.0 | 0.00 | 30.16 | 30.24 | 8.8 | 04 | 10.1 | 24 | 07 | 20 | 07 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 76 | 66 | 71 | 4 | 64 | 66 | 0 | 6 | RA BR | 0 | | 0.0 | 1.35 | 29.97 | 30.05 | 22.4 | 05 | 23.6 | 45 | 10 | 37 | 10 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 82* | 64 | 73 | 6 | 67 | 70 | 0 | 8 | RA BR | 0 | | 0.0 | 0.11 | 29.84 | 29.93 | 15.4 | 15 | 18.8 | 53* | 12 | 43* | 13 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 81 | 63 | 72 | 5 | 66 | 68 | 0 | 7 | BR | 0 | | 0.0 | 0.00 | 30.07 | 30.16 | 0.3 | 15 | 3.1 | 14 | 16 | 12 | 14 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 75 | 61 | 68 | 2 | 59 | 63 | 0 | 3 | | 0 | | 0.0 | 0.00 | 30.18 | 30.26 | 4.9 | 05 | 6.8 | 15 | 04 | 13 | 05 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 78 | 66 | 72 | 6 | 68 | 69 | 0 | 7 | RA BR HZ | 0 | | 0.0 | 0.07 | 30.03 | 30.11 | 10.3 | 13 | 11.5 | 26 | 14 | 22 | 14 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 76 | 58 | 67 | 2 | 62 | 64 | 0 | 2 | RA BR | 0 | | 0.0 | 1.11 | 29.79 | 29.87 | 5.1 | 23 | 10.1 | 32 | 29 | 29 | 28 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 72 | 51 | 62 | -3 | 55 | 59 | 3 | 0 | | 0 | | 0.0 | 0.00 | 30.02 | 30.11 | 2.3 | 19 | 4.8 | 14 | 15 | 13 | 15 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 79 | 55 | 67 | 3 | 63 | 65 | 0 | 2 | RA BR | 0 | | 0.0 | T | 29.92 | 30.00 | 4.5 | 21 | 6.5 | 21 | 20 | 16 | 21 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 78 | 63 | 71 | 7 | 66 | 67 | 0 | 6 | | 0 | | 0.0 | 0.00 | 29.93 | 30.01 | 2.4 | 09 | 6.3 | 14 | 16 | 12 | 13 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 79 | 65 | 72 | 9 | 70 | 70 | 0 | 7 | TSRA RA FG+ BR VCTS | 0 | | 0.0 | 0.57 | 29.83 | 29.91 | 8.9 | 14 | 9.8 | 29 | 16 | 24 | 15 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 70 | 55 | 63 | 0 | 61 | 63 | 2 | 0 | TSRA RA BR VCTS | 0 | | 0.0 | 0.08 | 29.68 | 29.76 | 3.6 | 31 | 7.0 | 24 | 24 | 22 | 25 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 66 | 50 | 58 | -5 | 48 | 53 | 7 | 0 | | 0 | | 0.0 | 0.00 | 29.92 | 30.00 | 9.8 | 28 | 10.2 | 23 | 29 | 20 | 29 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 65 | 46* | 56* | -6 | 44 | 50 | 9 | 0 | | 0 | | 0.0 | 0.00 | 30.15 | 30.24 | 5.4 | 27 | 6.4 | 18 | 29 | 15 | 28 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| < MONTHLY AVERAGES | | | | | | | | | | TOTALS--> | | | | 0.0 | 7.39 | 30.00 | 30.08 | 2.4 | 06 | 9.1 | <-- MONTHLY AVERAGES | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - .3 | | | | | | | | | | 2.0 | | 0.8 | | <-----DEPARTURE FROM NORMAL-----> | | | | | | | | | | 3.38 | | | | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 | | | | | | | | | | | | | | | | | | | | | |
| DEGREE DAYS | | | | | | | | | | GREATEST 24-HR PRECIPITATION: 1.51 DATE: 14-15 | | | | | | | | | | SEA LEVEL PRESSURE | | | | | | | | | | DATE TIME | | | | | | | | | | | | | | | | | | | |
| MONTHLY TOTAL DEPARTURE | | | | | | | | | | GREATEST 24-HR SNOWFALL: 0.0 DATE: | | | | | | | | | | MAXIMUM | | | | | | | | | | : 30.31 | | | | : 21 0951 | | | | | | | | | | | | | | | |
| SEASON TO DATE TOTAL DEPARTURE | | | | | | | | | | GREATEST SNOW DEPTH: 0 DATE: | | | | | | | | | | MINIMUM | | | | | | | | | | : 29.72 | | | | : 28 1451 | | | | | | | | | | | | | | | |
| HEATING: 21 -28 | | | | | | | | | | NUMBER OF DAYS WITH | | | | | | | | | | MAXIMUM TEMP ≥ 90: 0 | | | | | | | | | | MINIMUM TEMP ≤ 32: 0 | | | | | | | | | | PRECIPITATION ≥ 0.01 INCH: 13 | | | | | | | | | |
| COOLING: 133 -2 | | | | | | | | | | 21 -31 | | | | | | | | | | MAXIMUM TEMP ≤ 32: 0 | | | | | | | | | | MINIMUM TEMP ≤ 0: 0 | | | | | | | | | | PRECIPITATION ≥ 0.10 INCH: 11 | | | | | | | | | |
| | | | | | | | | | | 1019 -89 | | | | | | | | | | THUNDERSTORMS: 5 | | | | | | | | | | HEAVY FOG: 1 | | | | | | | | | | SNOWFALL ≥ 1.0 INCH: 0 | | | | | | | | | |

SEPTEMBER 2003
 WILMINGTON, DE

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

WILMINGTON, DE

SEPTEMBER 2003

ILG

WBAN # 13781

| DATE | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | DATE | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | DATE | Sum if Different (See Note) | 2400 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 | | | | T | T | 0.01 | T | | | | | | 01 | | | | T | | | | | 0.38 | 0.05 | | 01 | | 0.44 | |
| 02 | T | | | | | | | | | | | | 02 | | | | T | | | | | T | | | 02 | 0.01 | T | |
| 03 | 0.01 | | | T | T | | | | | | | | 03 | | | | T | | | | | T | 0.01 | | 03 | | 0.16 | |
| 04 | T | T | | 0.02 | | | | T | | | | | 04 | 0.01 | | | T | | | | | 0.01 | | | 04 | | 0.97 | |
| 05 | | | 0.05 | | | | | | 0.71 | 0.10 | | 0.01 | 05 | | | | | | | | | 0.01 | | | 05 | | 0.00 | |
| 06 | | | | | | | | | | | | | 06 | | | | | | | | | | | | 06 | | 0.00 | |
| 07 | | | | | | | | | | | | | 07 | | | | | | | | | | | | 07 | | 0.00 | |
| 08 | | | | | | | | | | | | | 08 | | | | | | | | | | | | 08 | | 0.00 | |
| 09 | | | | | | | | | | | | | 09 | | | | | | | | | | | | 09 | | 0.00 | |
| 10 | | | | | | | | | | | | | 10 | | | | | | | | | | | | 10 | | 0.00 | |
| 11 | | | | | | | | | | | | | 11 | | | | | | | | | | | | 11 | | 0.00 | |
| 12 | | | | | | | | | | | | | 12 | T | | | | 0.05 | | | T | | | | 12 | 0.19 | 0.38 | |
| 13 | | 0.01 | 0.03 | 0.01 | T | T | 0.03 | 0.34 | 0.06 | 0.01 | 0.01 | 0.05 | 13 | 0.05 | 0.03 | 0.02 | | | | | 0.01 | 0.02 | 0.06 | | 13 | | 0.62 | |
| 14 | 0.01 | T | T | T | | | | | | | | | 14 | 0.01 | 0.01 | 0.02 | | | | T | | | | T | 14 | | 0.26 | |
| 15 | 0.06 | 0.01 | 0.47 | T | | 0.01 | | T | | | | | 15 | 0.19 | 0.31 | 0.11 | 0.01 | 0.05 | T | | T | T | | 0.01 | 15 | 1.22 | 1.27 | |
| 16 | | | | | | | | | | | | | 16 | | | | | | | | | | | | 16 | | 0.00 | |
| 17 | | | | | | | | | | | | | 17 | | | | | | | | | | | | 17 | | 0.00 | |
| 18 | | | | | | | | | | | | | 18 | | 0.01 | 0.06 | 0.05 | 0.04 | 0.11 | 0.13 | 0.37 | 0.35 | 0.18 | 0.03 | 0.02 | 18 | 1.35 | |
| 19 | 0.08 | 0.02 | 0.01 | T | | | | | | | | | 19 | | | | | | | | | | | | 19 | | 0.11 | |
| 20 | | | | | | | | | | | | | 20 | | | | | | | | | | | | 20 | | 0.00 | |
| 21 | | | | | | | | | | | | | 21 | | | | | | | | T | 0.01 | | 0.03 | 0.03 | 21 | | 0.00 |
| 22 | | | | | | | | | | | | | 22 | | | | | | | | | | | | 22 | 1.61 | 0.07 | |
| 23 | 0.03 | 0.03 | T | 0.55 | 0.01 | 0.10 | 0.55 | 0.12 | 0.20 | 0.02 | | | 23 | | | | | | | | | | | | 23 | | 1.11 | |
| 24 | | | | | | | | | | | | | 24 | | | | | | | | | | | | 24 | | 0.00 | |
| 25 | | | | | | | | | | | | | 25 | | | | | | | | | | | T | 25 | | T | |
| 26 | | | | | | | | | | | | | 26 | | | | | | | | | | | | 26 | | 0.00 | |
| 27 | | | | | | | | | | | T | | 27 | 0.02 | 0.01 | | | | | | | T | 0.02 | 0.52 | 27 | | 0.57 | |
| 28 | | | | | | | | | | | | | 28 | | | | | | | | | | | | 28 | | 0.08 | |
| 29 | 0.08 | T | | T | T | T | | | | | | | 29 | | | | | | | | | | | | 29 | | 0.00 | |
| 30 | | | | | | | | | | | | | 30 | | | | | | | | | | | | 30 | | 0.00 | |

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes) | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | .32 | .47 | .53 | .61 | .71 | .71 | .71 | .72 | .80 | .85 | .94 | 1.03 |
| Ending Date | 27 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 18 | 18 |
| Ending Time (Hour/Min) | 2358 | 0824 | 0827 | 0832 | 0837 | 0837 | 0837 | 0920 | 0950 | 1006 | 2058 | 2103 |

Date and time are not entered for TRACE amounts.

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

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

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

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

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

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

NORMALS ARE FOR THE YEARS 1971–2000

WEATHER NOTATIONS

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

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

WILMINGTON, DE SEPTEMBER 2003

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

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

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

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

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

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

ADDITIONAL NOTES:

| DATE | SUNSHINE | | CLOUDINESS (OKTAS) | | | | VISIBILITY (MILES) | | RESERVED |
|--|---------------|------------------|--------------------|-----------|------------|-----------|--------------------|---------|----------|
| | TOTAL MINUTES | PERCENT POSSIBLE | SR–SS | | MN–MN | | MINIMUM | MAXIMUM | |
| | | | CEILOMETER | SATELLITE | CEILOMETER | SATELLITE | | | |
| 01 | | | | | | | 1.75 | 10.00 | |
| 02 | | | | | | | 4.00 | 10.00 | |
| 03 | | | | | | | 1.00 | 10.00 | |
| 04 | | | | | | | .75 | 10.00 | |
| 05 | | | | | | | 4.00 | 10.00 | |
| 06 | | | | | | | 10.00 | 10.00 | |
| 07 | | | | | | | 9.00 | 10.00 | |
| 08 | | | | | | | 6.00 | 10.00 | |
| 09 | | | | | | | 10.00 | 10.00 | |
| 10 | | | | | | | 10.00 | 10.00 | |
| 11 | | | | | | | 10.00 | 10.00 | |
| 12 | | | | | | | 1.75 | 10.00 | |
| 13 | | | | | | | 1.00 | 10.00 | |
| 14 | | | | | | | 1.75 | 10.00 | |
| 15 | | | | | | | 1.25 | 10.00 | |
| 16 | | | | | | | 5.00 | 10.00 | |
| 17 | | | | | | | 10.00 | 10.00 | |
| 18 | | | | | | | 2.00 | 10.00 | |
| 19 | | | | | | | 4.00 | 10.00 | |
| 20 | | | | | | | 4.00 | 10.00 | |
| 21 | | | | | | | 10.00 | 10.00 | |
| 22 | | | | | | | 4.00 | 10.00 | |
| 23 | | | | | | | .00 | 10.00 | |
| 24 | | | | | | | 9.00 | 10.00 | |
| 25 | | | | | | | 5.00 | 10.00 | |
| 26 | | | | | | | 7.00 | 10.00 | |
| 27 | | | | | | | .50 | 10.00 | |
| 28 | | | | | | | 2.50 | 10.00 | |
| 29 | | | | | | | 10.00 | 10.00 | |
| 30 | | | | | | | 10.00 | 10.00 | |
| MONTHLY AVGS | | | | | | | 5.73 | 10.00 | |
| SUNSHINE (MINUTES) | | | | | | | | | |
| Total: Possible: Percent Possible: | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | |
| SKY CONDITION | | | | | | | | | |
| CLR PTLY CLDY CLOUDY MISSING | | | | | | | | | |
| 30 | | | | | | | | | |
| MINIMUM VISIBILITY (MILES) | | | | | | | | | |
| <=0.25 <=3.0 >=7.0 | | | | | | | | | |
| 0 10 12 | | | | | | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

SEPTEMBER 2003

ILG

WBAN # 13781

| HOUR (LST) | SATellite | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | HOUR (LST) | SATellite | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | | | | |
|-----------------------------|-----------|---------------------|--------------------|---------|------------------------|-------------------|----------|-----------|----------|-----------------------------|-----------------------|-----------------------|------------|-----------|---------------------|--------------------|---------|----------------|---------------------|------------------------|-------------------|----------|-----------|-----------------------|-------------------------|-------------|-----------------------|---------|-----------|
| | SKY COVER | CEILING 100'S OF FT | | | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | 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 | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUNRISE: 0530 SEP 01 | | | | | SUNSET: 1834 | | | | | SUNRISE: 0536 SEP 07 | | | | | SUNSET: 1824 | | | | | | | | | | | | | | |
| 01 | OVC | 042 | 10.00 | -RA | 68 | 66 | 67 | 93 | 6 | 13 | 30.15 | 30.24 | 01 | CLR | NC | 10.00 | 58 | 56 | 57 | 93 | 7 | 30 | 29.99 | 30.07 | | | | | |
| 04 | OVC | 028 | 10.00 | BR | 68 | 68 | 68 | 100 | 3 | 12 | 30.13 | 30.21 | 04 | CLR | NC | 10.00 | 57 | 56 | 56 | 96 | 3 | 28 | 29.98 | 30.07 | | | | | |
| 07 | OVC | 005 | 2.50 | BR | 71 | 71 | 71 | 100 | 8 | 17 | 30.10 | 30.19 | 07 | CLR | NC | 9.00 | 60 | 57 | 58 | 90 | 6 | 31 | 30.00 | 30.09 | | | | | |
| 10 | OVC | 014 | 10.00 | | 75 | 72 | 73 | 90 | 6 | 23 | 30.09 | 30.17 | 10 | CLR | NC | 10.00 | 73 | 57 | 63 | 57 | 6 | VR | 30.00 | 30.09 | | | | | |
| 13 | OVC | 021 | 9.00 | | 78 | 72 | 74 | 82 | 3 | 23 | 30.05 | 30.14 | 13 | CLR | NC | 10.00 | 77 | 60 | 67 | 56 | 3 | VR | 29.95 | 30.04 | | | | | |
| 16 | SCT | NC | 10.00 | | 80 | 73 | 75 | 79 | 3 | 14 | 30.00 | 30.09 | 16 | CLR | NC | 10.00 | 79 | 59 | 67 | 50 | 6 | 29 | 29.93 | 30.02 | | | | | |
| 19 | BKN | 029 | 9.00 | | 78 | 74 | 75 | 87 | 6 | 14 | 29.99 | 30.08 | 19 | CLR | NC | 10.00 | 71 | 62 | 66 | 73 | 6 | 24 | 29.94 | 30.02 | | | | | |
| 22 | OVC | 021 | 3.00 | TSRA BR | 74 | 74 | 74 | 100 | 15 | 23 | 30.01 | 30.09 | 22 | CLR | NC | 10.00 | 66 | 63 | 64 | 90 | 3 | 28 | 29.95 | 30.04 | | | | | |
| SUNRISE: 0531 SEP 02 | | | | | SUNSET: 1832 | | | | | SUNRISE: 0537 SEP 08 | | | | | SUNSET: 1823 | | | | | | | | | | | | | | |
| 01 | CLR | NC | 10.00 | -RA | 73 | 73 | 73 | 100 | 5 | 19 | 29.96 | 30.04 | 01 | CLR | NC | 10.00 | 63 | 61 | 62 | 93 | 0 | 00 | 29.95 | 30.03 | | | | | |
| 04 | CLR | NC | 7.00 | | 74 | 74 | 74 | 100 | 8 | 20 | 29.92 | 30.00 | 04 | CLR | NC | 10.00 | 61 | 59 | 60 | 93 | 0 | 00 | 29.95 | 30.03 | | | | | |
| 07 | FEW | NC | 5.00 | BR | 75 | 74 | 74 | 96 | 8 | 25 | 29.94 | 30.03 | 07 | CLR | NC | 9.00 | 62 | 60 | 61 | 93 | 0 | 00 | 29.97 | 30.06 | | | | | |
| 10 | FEW | NC | 10.00 | | 80 | 73 | 75 | 79 | 10 | 26 | 29.97 | 30.05 | 10 | CLR | NC | 10.00 | 76 | 62 | 67 | 62 | 9 | 05 | 29.99 | 30.07 | | | | | |
| 13 | OVC | 011 | 7.00 | | 71 | 67 | 68 | 87 | 14 | 03 | 30.00 | 30.09 | 13 | FEW | NC | 10.00 | 81 | 63 | 69 | 54 | 10 | 05 | 29.98 | 30.07 | | | | | |
| 16 | OVC | 009 | 8.00 | | 66 | 64 | 65 | 93 | 12 | 05 | 30.02 | 30.11 | 16 | BKN | 075 | 10.00 | 79 | 64 | 69 | 60 | 8 | 04 | 29.96 | 30.05 | | | | | |
| 19 | OVC | 009 | 10.00 | | 65 | 64 | 64 | 97 | 9 | 06 | 30.04 | 30.13 | 19 | CLR | NC | 10.00 | 73 | 65 | 68 | 76 | 12 | 08 | 29.99 | 30.08 | | | | | |
| 22 | OVC | 009 | 10.00 | | 65 | 64 | 64 | 97 | 8 | 06 | 30.06 | 30.15 | 22 | OVC | 060 | 10.00 | 68 | 62 | 64 | 81 | 5 | 08 | 30.07 | 30.16 | | | | | |
| SUNRISE: 0532 SEP 03 | | | | | SUNSET: 1831 | | | | | SUNRISE: 0538 SEP 09 | | | | | SUNSET: 1821 | | | | | | | | | | | | | | |
| 01 | OVC | 005 | 10.00 | -RA | 64 | 64 | 64 | 100 | 10 | 05 | 30.03 | 30.12 | 01 | CLR | NC | 10.00 | 66 | 62 | 64 | 87 | 6 | 06 | 30.09 | 30.18 | | | | | |
| 04 | OVC | 003 | 5.00 | -RA BR | 65 | 65 | 65 | 100 | 7 | 04 | 30.01 | 30.10 | 04 | CLR | NC | 10.00 | 65 | 63 | 64 | 93 | 10 | 05 | 30.08 | 30.16 | | | | | |
| 07 | OVC | 003 | 2.00 | BR | 66 | 66 | 66 | 100 | 6 | 05 | 30.03 | 30.11 | 07 | CLR | NC | 10.00 | 66 | 61 | 63 | 84 | 12 | 02 | 30.13 | 30.22 | | | | | |
| 10 | OVC | 003 | 2.50 | BR | 68 | 68 | 68 | 100 | 9 | 06 | 30.01 | 30.10 | 10 | CLR | NC | 10.00 | 71 | 53 | 61 | 53 | 16 | 06 | 30.17 | 30.25 | | | | | |
| 13 | OVC | 005 | 10.00 | | 72 | 71 | 71 | 97 | 7 | 08 | 29.98 | 30.06 | 13 | FEW | NC | 10.00 | 73 | 53 | 61 | 50 | 17 | 05 | 30.18 | 30.27 | | | | | |
| 16 | BKN | 014 | 9.00 | | 76 | 73 | 74 | 91 | 8 | 11 | 29.91 | 29.99 | 16 | FEW | NC | 10.00 | 72 | 53 | 61 | 52 | 13 | 07 | 30.15 | 30.24 | | | | | |
| 19 | OVC | 019 | 10.00 | | 74 | 73 | 73 | 97 | 12 | 17 | 29.89 | 29.98 | 19 | CLR | NC | 10.00 | 66 | 53 | 59 | 63 | 10 | 08 | 30.18 | 30.27 | | | | | |
| 22 | OVC | 010 | 10.00 | | 73 | 72 | 72 | 96 | 9 | 17 | 29.88 | 29.96 | 22 | CLR | NC | 10.00 | 62 | 55 | 58 | 78 | 8 | 06 | 30.21 | 30.29 | | | | | |
| SUNRISE: 0533 SEP 04 | | | | | SUNSET: 1829 | | | | | SUNRISE: 0538 SEP 10 | | | | | SUNSET: 1820 | | | | | | | | | | | | | | |
| 01 | OVC | 006 | 9.00 | | 73 | 73 | 73 | 100 | 7 | 20 | 29.81 | 29.89 | 01 | CLR | NC | 10.00 | 62 | 56 | 59 | 81 | 9 | 05 | 30.19 | 30.28 | | | | | |
| 04 | OVC | 023 | 10.00 | | 73 | 73 | 73 | 100 | 5 | 21 | 29.78 | 29.86 | 04 | CLR | NC | 10.00 | 56 | 55 | 55 | 97 | 6 | 35 | 30.18 | 30.26 | | | | | |
| 07 | OVC | 024 | 6.00 | BR | 73 | 73 | 73 | 100 | 6 | 23 | 29.79 | 29.88 | 07 | CLR | NC | 10.00 | 59 | 57 | 58 | 93 | 7 | 36 | 30.19 | 30.27 | | | | | |
| 10 | OVC | 020 | 3.00 | RA BR | 71 | 71 | 71 | 100 | 6 | VR | 29.79 | 29.88 | 10 | SCT | NC | 10.00 | 67 | 56 | 61 | 68 | 14 | 01 | 30.21 | 30.29 | | | | | |
| 13 | BKN | 012 | 10.00 | -RA | 75 | 73 | 74 | 94 | 0 | 00 | 29.74 | 29.83 | 13 | FEW | NC | 10.00 | 73 | 55 | 62 | 53 | 5 | VR | 30.16 | 30.24 | | | | | |
| 16 | SCT | NC | 8.00 | | 75 | 72 | 73 | 90 | 0 | 00 | 29.72 | 29.81 | 16 | FEW | NC | 10.00 | 76 | 54 | 63 | 47 | 10 | 35 | 30.11 | 30.19 | | | | | |
| 19 | CLR | NC | 6.00 | BR | 72 | 71 | 71 | 97 | 3 | 24 | 29.74 | 29.83 | 19 | CLR | NC | 10.00 | 68 | 55 | 61 | 63 | 5 | 29 | 30.11 | 30.20 | | | | | |
| 22 | CLR | NC | 3.00 | BR | 69 | 69 | 69 | 100 | 6 | 28 | 29.77 | 29.86 | 22 | CLR | NC | 10.00 | 60 | 58 | 59 | 93 | 6 | 30 | 30.12 | 30.21 | | | | | |
| SUNRISE: 0534 SEP 05 | | | | | SUNSET: 1828 | | | | | SUNRISE: 0539 SEP 11 | | | | | SUNSET: 1818 | | | | | | | | | | | | | | |
| 01 | CLR | NC | 4.00 | BR | 67 | 67 | 67 | 100 | 9 | 30 | 29.77 | 29.86 | 01 | CLR | NC | 10.00 | 59 | 56 | 57 | 90 | 3 | 35 | 30.11 | 30.19 | | | | | |
| 04 | CLR | NC | 9.00 | | 64 | 63 | 63 | 96 | 9 | 30 | 29.80 | 29.89 | 04 | CLR | NC | 10.00 | 58 | 55 | 56 | 90 | 5 | 34 | 30.10 | 30.19 | | | | | |
| 07 | BKN | 055 | 10.00 | | 65 | 62 | 63 | 90 | 9 | 31 | 29.88 | 29.97 | 07 | CLR | NC | 10.00 | 62 | 56 | 59 | 81 | 6 | 35 | 30.12 | 30.21 | | | | | |
| 10 | FEW | NC | 10.00 | | 72 | 60 | 65 | 66 | 10 | 33 | 29.93 | 30.01 | 10 | CLR | NC | 10.00 | 73 | 55 | 62 | 53 | 13 | 07 | 30.16 | 30.25 | | | | | |
| 13 | FEW | NC | 10.00 | | 76 | 58 | 65 | 54 | 9 | 30 | 29.91 | 30.00 | 13 | CLR | NC | 10.00 | 78 | 57 | 65 | 48 | 10 | 08 | 30.15 | 30.24 | | | | | |
| 16 | SCT | NC | 10.00 | | 74 | 57 | 64 | 56 | 9 | 29 | 29.91 | 30.00 | 16 | CLR | NC | 10.00 | 79 | 58 | 66 | 49 | 15 | 05 | 30.13 | 30.21 | | | | | |
| 19 | CLR | NC | 10.00 | | 65 | 58 | 61 | 78 | 7 | 29 | 29.93 | 30.02 | 19 | CLR | NC | 10.00 | 72 | 56 | 63 | 57 | 12 | 07 | 30.12 | 30.21 | | | | | |
| 22 | CLR | NC | 10.00 | | 63 | 58 | 60 | 84 | 7 | 32 | 29.98 | 30.07 | 22 | CLR | NC | 10.00 | 67 | 55 | 60 | 66 | 12 | 05 | 30.14 | 30.23 | | | | | |
| SUNRISE: 0535 SEP 06 | | | | | SUNSET: 1826 | | | | | SUNRISE: 0540 SEP 12 | | | | | SUNSET: 1816 | | | | | | | | | | | | | | |
| 01 | CLR | NC | 10.00 | | 60 | 57 | 58 | 90 | 6 | 33 | 29.99 | 30.08 | 01 | CLR | NC | 10.00 | 64 | 62 | 63 | 93 | 10 | 05 | 30.16 | 30.25 | | | | | |
| 04 | CLR | NC | 10.00 | | 58 | 56 | 57 | 93 | 6 | 34 | 30.00 | 30.09 | 04 | CLR | NC | 10.00 | 65 | 62 | 63 | 90 | 13 | 05 | 30.12 | 30.21 | | | | | |
| 07 | CLR | NC | 10.00 | | 61 | 56 | 58 | 84 | 6 | 35 | 30.03 | 30.11 | 07 | CLR | NC | 10.00 | 65 | 59 | 61 | 81 | 17 | 04 | 30.16 | 30.24 | | | | | |
| 10 | CLR | NC | 10.00 | | 70 | 55 | 61 | 59 | 6 | 05 | 30.05 | 30.14 | 10 | FEW | NC | 10.00 | 68 | 57 | 62 | 68 | 17 | 05 | 30.15 | 30.24 | | | | | |
| 13 | FEW | NC | 10.00 | | 75 | 54 | 63 | 48 | 8 | 30 | 30.02 | 30.11 | 13 | SCT | NC | 10.00 | 69 | 58 | 62 | 68 | 16 | 06 | 30.13 | 30.22 | | | | | |
| 16 | CLR | NC | 10.00 | | 76 | 53 | 63 | 45 | 5 | 32 | 29.99 | 30.07 | 16 | OVC | 021 | 1.75 | -RA | RA BR | | 18 | 04 | 30.09 | | | | | | | |
| 19 | CLR | NC | 10.00 | | 69 | 55 | 61 | 61 | 5 | 28 | 30.00 | 30.09 | 19 | OVC | 016 | 10.00 | 65 | 63 | 64 | 93 | 21 | 04 | 30.07 | 30.16 | | | | | |
| 22 | CLR | NC | 10.00 | | 62 | 58 | 60 | 86 | 0 | 00 | 30.00 | 30.09 | 22 | OVC | 012 | 5.00 | +RA BR | | 65 | 64 | 64 | 97 | 18 | 05 | 30.07 | 30.16 | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

WILMINGTON, DE

SEPTEMBER 2003

ILG

WBAN # 13781

| HOUR (LST) | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | HOUR (LST) | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | | | | |
|-----------------------------|-----------|---------------------|--------------------|---------|------------------------|-------------------|----------|-----------|----------|-----------------------------|-----------------------|-----------------------|------------|-----------|---------------------|--------------------|---------|----------------|---------------------|------------------------|-------------------|----------|-----------|-----------------------|-------------------------|-------------|-----------------------|---------|-----------|
| | SKY COVER | CEILING 100'S OF FT | | | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | 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 | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUNRISE: 0541 SEP 13 | | | | | SUNSET: 1815 | | | | | SUNRISE: 0547 SEP 19 | | | | | SUNSET: 1805 | | | | | | | | | | | | | | |
| 01 | OVC | 011 | 10.00 | | 66 | 65 | 65 | 96 | 22 | 04 | 30.04 | 30.13 | 01 | OVC | 034 | 10.00 | | 75 | 72 | 73 | 90 | 23 | 11 | 29.67 | 29.76 | | | | |
| 04 | OVC | 007 | 10.00 | | 67 | 67 | 67 | 100 | 20 | 05 | 30.01 | 30.09 | 04 | OVC | 035 | 10.00 | | 72 | 66 | 68 | 82 | 30 | 13 | 29.71 | 29.80 | | | | |
| 07 | OVC | 005 | 3.00 | -RA BR | 68 | 68 | 68 | 100 | 16 | 04 | 30.02 | 30.11 | 07 | BKN | 120 | 10.00 | | 74 | 69 | 71 | 85 | 28 | 13 | 29.75 | 29.84 | | | | |
| 10 | OVC | 005 | 9.00 | -RA | 71 | 71 | 71 | 100 | 14 | 05 | 30.05 | 30.14 | 10 | BKN | 048 | 10.00 | | 77 | 71 | 73 | 82 | 28 | 15 | 29.79 | 29.87 | | | | |
| 13 | OVC | 015 | 8.00 | -RA | 77 | 76 | 76 | 96 | 8 | 11 | 30.04 | 30.13 | 13 | BKN | 075 | 10.00 | | 82 | 64 | 70 | 55 | 24 | 18 | 29.82 | 29.91 | | | | |
| 16 | SCT | NC | 10.00 | | 77 | 75 | 76 | 94 | 16 | 16 | 30.02 | 30.11 | 16 | OVC | 055 | 10.00 | | 77 | 65 | 69 | 66 | 14 | 21 | 29.87 | 29.96 | | | | |
| 19 | | | | | | | | | | | | | 19 | BKN | 100 | 10.00 | | 71 | 66 | 68 | 84 | 7 | 24 | 29.96 | 30.04 | | | | |
| 22 | SCT | NC | 10.00 | | 72 | 72 | 72 | 100 | 8 | 08 | 30.10 | 30.19 | 22 | CLR | NC | 10.00 | | 66 | 65 | 65 | 96 | 3 | 33 | 30.01 | 30.09 | | | | |
| SUNRISE: 0542 SEP 14 | | | | | SUNSET: 1813 | | | | | SUNRISE: 0548 SEP 20 | | | | | SUNSET: 1803 | | | | | | | | | | | | | | |
| 01 | OVC | 011 | 7.00 | -RA | 72 | 72 | 72 | 100 | 7 | 09 | 30.10 | 30.19 | 01 | FEW | NC | 10.00 | | 66 | 66 | 66 | 100 | 0 | 00 | 30.01 | 30.10 | | | | |
| 04 | OVC | 003 | 1.75 | -RA BR | 72 | 72 | 72 | 100 | 6 | 10 | 30.09 | 30.18 | 04 | CLR | NC | 10.00 | | 64 | 64 | 64 | 100 | 3 | 32 | 30.02 | 30.11 | | | | |
| 07 | OVC | 003 | 2.00 | BR | 72 | 72 | 72 | 100 | 7 | 12 | 30.13 | 30.22 | 07 | CLR | NC | 9.00 | | 65 | 65 | 65 | 100 | 0 | 00 | 30.07 | 30.16 | | | | |
| 10 | BKN | 075 | 10.00 | | 76 | 72 | 73 | 88 | 8 | 16 | 30.13 | 30.22 | 10 | CLR | NC | 10.00 | | 75 | 68 | 70 | 79 | 3 | 14 | 30.09 | 30.18 | | | | |
| 13 | OVC | 050 | 10.00 | | 78 | 73 | 75 | 85 | 13 | 17 | 30.10 | 30.19 | 13 | CLR | NC | 10.00 | | 80 | 66 | 71 | 62 | 8 | 17 | 30.06 | 30.15 | | | | |
| 16 | CLR | NC | 10.00 | | 80 | 73 | 75 | 79 | 13 | 15 | 30.05 | 30.13 | 16 | FEW | NC | 10.00 | | 80 | 66 | 71 | 62 | 3 | VR | 30.05 | 30.14 | | | | |
| 19 | BKN | 050 | 10.00 | VCTS | 76 | 75 | 75 | 97 | 9 | 15 | 30.08 | 30.16 | 19 | CLR | NC | 7.00 | | 71 | 68 | 69 | 90 | 5 | 31 | 30.08 | 30.16 | | | | |
| 22 | OVC | 003 | 4.00 | BR | 73 | 73 | 73 | 100 | 13 | 15 | 30.08 | 30.16 | 22 | BKN | 090 | 5.00 | BR | 71 | 67 | 68 | 87 | 3 | 36 | 30.12 | 30.21 | | | | |
| SUNRISE: 0543 SEP 15 | | | | | SUNSET: 1811 | | | | | SUNRISE: 0549 SEP 21 | | | | | SUNSET: 1802 | | | | | | | | | | | | | | |
| 01 | OVC | 003 | 10.00 | | 73 | 73 | 73 | 100 | 8 | 14 | 30.04 | 30.13 | 01 | SCT | NC | 10.00 | | 67 | 60 | 63 | 79 | 6 | 01 | 30.13 | 30.22 | | | | |
| 04 | OVC | 005 | 10.00 | TS | 72 | 72 | 72 | 100 | 10 | 12 | 30.00 | 30.09 | 04 | FEW | NC | 10.00 | | 63 | 58 | 60 | 84 | 7 | 35 | 30.15 | 30.24 | | | | |
| 07 | OVC | 005 | 10.00 | | 72 | 72 | 72 | 100 | 6 | 10 | 30.01 | 30.10 | 07 | BKN | 044 | 10.00 | | 64 | 58 | 60 | 81 | 7 | 02 | 30.21 | 30.29 | | | | |
| 10 | FEW | NC | 10.00 | | 76 | 74 | 75 | 94 | 8 | 11 | 30.00 | 30.09 | 10 | OVC | 050 | 10.00 | | 67 | 57 | 61 | 71 | 13 | 03 | 30.22 | 30.31 | | | | |
| 13 | BKN | 028 | 1.25 | +RA BR | 75 | 73 | 74 | 94 | 16 | 14 | 29.96 | 30.05 | 13 | OVC | 037 | 10.00 | | 72 | 58 | 64 | 61 | 8 | 06 | 30.19 | 30.27 | | | | |
| 16 | BKN | 048 | 10.00 | -RA | 72 | 72 | 72 | 100 | 0 | 00 | 29.92 | 30.01 | 16 | OVC | 033 | 10.00 | | 73 | 59 | 65 | 62 | 3 | VR | 30.15 | 30.24 | | | | |
| 19 | OVC | 100 | 10.00 | | 70 | 70 | 70 | 100 | 6 | 06 | 29.92 | 30.01 | 19 | OVC | 070 | 10.00 | | 71 | 61 | 65 | 71 | 5 | 07 | 30.15 | 30.24 | | | | |
| 22 | OVC | 004 | 6.00 | BR | 69 | 69 | 69 | 100 | 3 | 28 | 29.92 | 30.01 | 22 | BKN | 090 | 10.00 | | 68 | 63 | 65 | 84 | 7 | 14 | 30.18 | 30.27 | | | | |
| SUNRISE: 0544 SEP 16 | | | | | SUNSET: 1810 | | | | | SUNRISE: 0550 SEP 22 | | | | | SUNSET: 1800 | | | | | | | | | | | | | | |
| 01 | CLR | NC | 6.00 | BR | 67 | 67 | 67 | 100 | 6 | 27 | 29.94 | 30.03 | 01 | OVC | 029 | 10.00 | | 67 | 61 | 63 | 81 | 3 | 12 | 30.16 | 30.25 | | | | |
| 04 | CLR | NC | 10.00 | | 62 | 59 | 60 | 90 | 10 | 30 | 29.96 | 30.05 | 04 | OVC | 027 | 10.00 | | 66 | 63 | 64 | 90 | 5 | 09 | 30.14 | 30.23 | | | | |
| 07 | CLR | NC | 10.00 | | 62 | 57 | 59 | 84 | 13 | 31 | 30.02 | 30.11 | 07 | SCT | NC | 10.00 | | | | | | 8 | 09 | 30.14 | | | | | |
| 10 | CLR | NC | 10.00 | | 72 | 57 | 63 | 60 | 14 | 33 | 30.06 | 30.15 | 10 | SCT | NC | 10.00 | | 72 | 66 | 68 | 82 | 7 | 14 | 30.11 | 30.20 | | | | |
| 13 | CLR | NC | 10.00 | | 77 | 53 | 63 | 44 | 7 | VR | 30.04 | 30.12 | 13 | FEW | NC | 6.00 | HZ | 77 | 71 | 73 | 82 | 17 | 15 | 30.04 | 30.12 | | | | |
| 16 | CLR | NC | 10.00 | | 76 | 56 | 64 | 50 | 8 | 31 | 30.03 | 30.11 | 16 | FEW | NC | 8.00 | | 77 | 70 | 72 | 79 | 13 | 13 | 29.95 | 30.04 | | | | |
| 19 | CLR | NC | 10.00 | | 68 | 55 | 61 | 63 | 5 | 30 | 30.05 | 30.14 | 19 | BKN | 110 | 7.00 | | 72 | 71 | 71 | 97 | 14 | 14 | 29.93 | 30.01 | | | | |
| 22 | CLR | NC | 10.00 | | 60 | 57 | 58 | 90 | 7 | 32 | 30.08 | 30.17 | 22 | OVC | 011 | 5.00 | -RA BR | 72 | 72 | 72 | 100 | 18 | 15 | 29.88 | 29.97 | | | | |
| SUNRISE: 0545 SEP 17 | | | | | SUNSET: 1808 | | | | | SUNRISE: 0551 SEP 23 | | | | | SUNSET: 1758 | | | | | | | | | | | | | | |
| 01 | CLR | NC | 10.00 | | 58 | 55 | 56 | 90 | 6 | 32 | 30.11 | 30.20 | 01 | OVC | 036 | 8.00 | -RA | 72 | 72 | 72 | 100 | 15 | 15 | 29.79 | 29.88 | | | | |
| 04 | CLR | NC | 10.00 | | 58 | 55 | 56 | 90 | 5 | 35 | 30.13 | 30.21 | 04 | OVC | 019 | 10.00 | -RA | 63 | 63 | 63 | 100 | 16 | 16 | 29.71 | 29.80 | | | | |
| 07 | CLR | NC | 10.00 | | 60 | 57 | 58 | 90 | 5 | 35 | 30.18 | 30.27 | 07 | OVC | 027 | 2.00 | RA BR | 63 | 63 | 63 | 100 | 20 | 30 | 29.71 | 29.80 | | | | |
| 10 | CLR | NC | 10.00 | | 74 | 55 | 63 | 52 | 13 | 05 | 30.19 | 30.28 | 10 | BKN | 090 | 10.00 | | 65 | 64 | 64 | 97 | 5 | 27 | 29.75 | 29.84 | | | | |
| 13 | CLR | NC | 10.00 | | 77 | 54 | 63 | 45 | 14 | 05 | 30.17 | 30.25 | 13 | SCT | NC | 10.00 | | 73 | 62 | 66 | 69 | 10 | 26 | 29.75 | 29.83 | | | | |
| 16 | CLR | NC | 10.00 | | 77 | 55 | 64 | 47 | 12 | 07 | 30.14 | 30.23 | 16 | BKN | 070 | 10.00 | | 73 | 55 | 62 | 53 | 12 | 27 | 29.76 | 29.85 | | | | |
| 19 | CLR | NC | 10.00 | | 70 | 53 | 60 | 55 | 12 | 05 | 30.15 | 30.24 | 19 | CLR | NC | 10.00 | | 66 | 56 | 60 | 70 | 9 | 29 | 29.83 | 29.92 | | | | |
| 22 | CLR | NC | 10.00 | | 66 | 56 | 60 | 70 | 13 | 04 | 30.16 | 30.25 | 22 | CLR | NC | 10.00 | | 61 | 53 | 57 | 75 | | | 29.94 | 30.03 | | | | |
| SUNRISE: 0546 SEP 18 | | | | | SUNSET: 1807 | | | | | SUNRISE: 0552 SEP 24 | | | | | SUNSET: 1757 | | | | | | | | | | | | | | |
| 01 | OVC | 048 | 10.00 | | 67 | 59 | 62 | 76 | 15 | 05 | 30.14 | 30.23 | 01 | CLR | NC | 10.00 | | 58 | 54 | 56 | 87 | 0 | 00 | 29.96 | 30.05 | | | | |
| 04 | OVC | 020 | 10.00 | | 66 | 60 | 62 | 81 | 16 | 05 | 30.12 | 30.20 | 04 | CLR | NC | 10.00 | | 53 | 53 | 53 | 100 | 3 | 28 | 30.00 | 30.09 | | | | |
| 07 | OVC | 020 | 10.00 | | 66 | 60 | 62 | 81 | 17 | 04 | 30.10 | 30.19 | 07 | CLR | NC | 10.00 | | 56 | 54 | 55 | 93 | 5 | 33 | 30.05 | 30.14 | | | | |
| 10 | OVC | 024 | 10.00 | | 68 | 61 | 64 | 78 | 23 | 05 | 30.08 | 30.16 | 10 | CLR | NC | 10.00 | | 69 | 50 | 58 | 51 | 5 | 35 | 30.08 | 30.17 | | | | |
| 13 | OVC | 022 | 10.00 | | 69 | 63 | 65 | 81 | 26 | 04 | 30.01 | 30.10 | 13 | CLR | NC | 10.00 | | 71 | 53 | 61 | 53 | 10 | 17 | 30.05 | 30.14 | | | | |
| 16 | OVC | 016 | 8.00 | -RA | 67 | 67 | 67 | 100 | 31 | 05 | 29.92 | 30.00 | 16 | FEW | NC | 10.00 | | 72 | 57 | 63 | 60 | 10 | 15 | 30.01 | 30.10 | | | | |
| 19 | OVC | 010 | 7.00 | -RA | 67 | 67 | 67 | 100 | 25 | 05 | 29.79 | 29.88 | 19 | CLR | NC | 10.00 | | 67 | 59 | 62 | 76 | 6 | 18 | 29.99 | 30.08 | | | | |
| 22 | OVC | 022 | 10.00 | | 74 | 72 | 73 | 94 | 26 | 09 | 29.74 | 29.83 | 22 | CLR | NC | 10.00 | | 62 | 58 | 60 | 86 | 6 | 18 | 29.99 | 30.07 | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

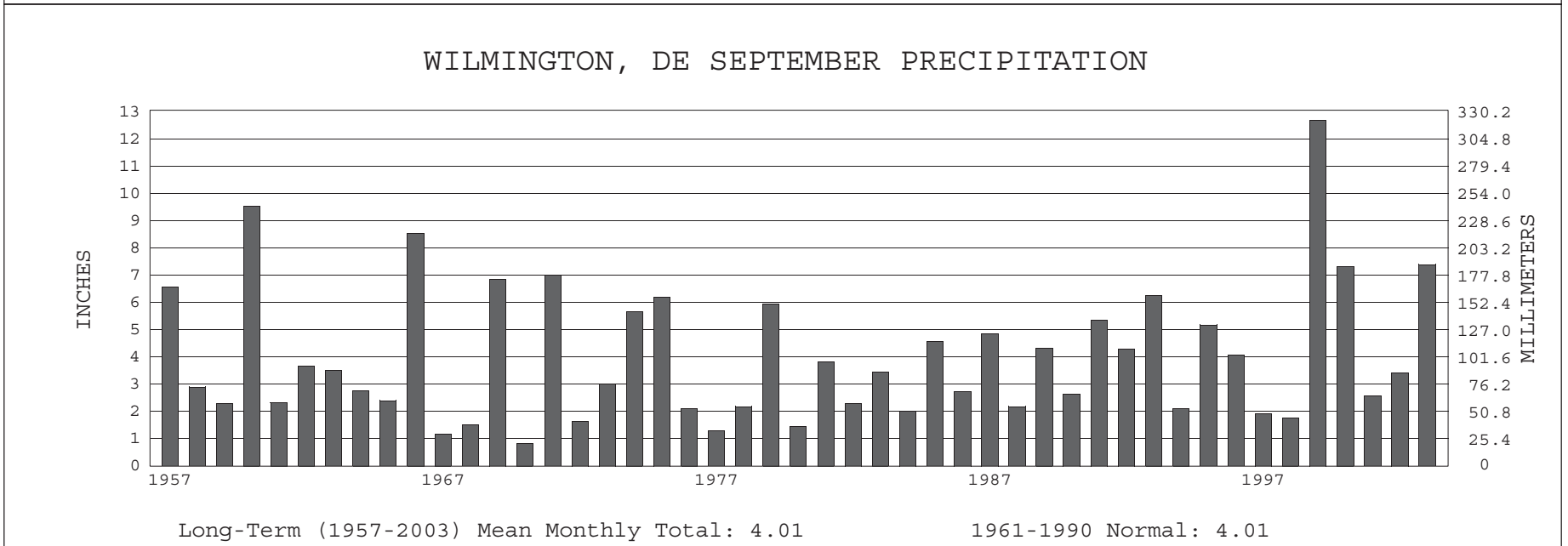
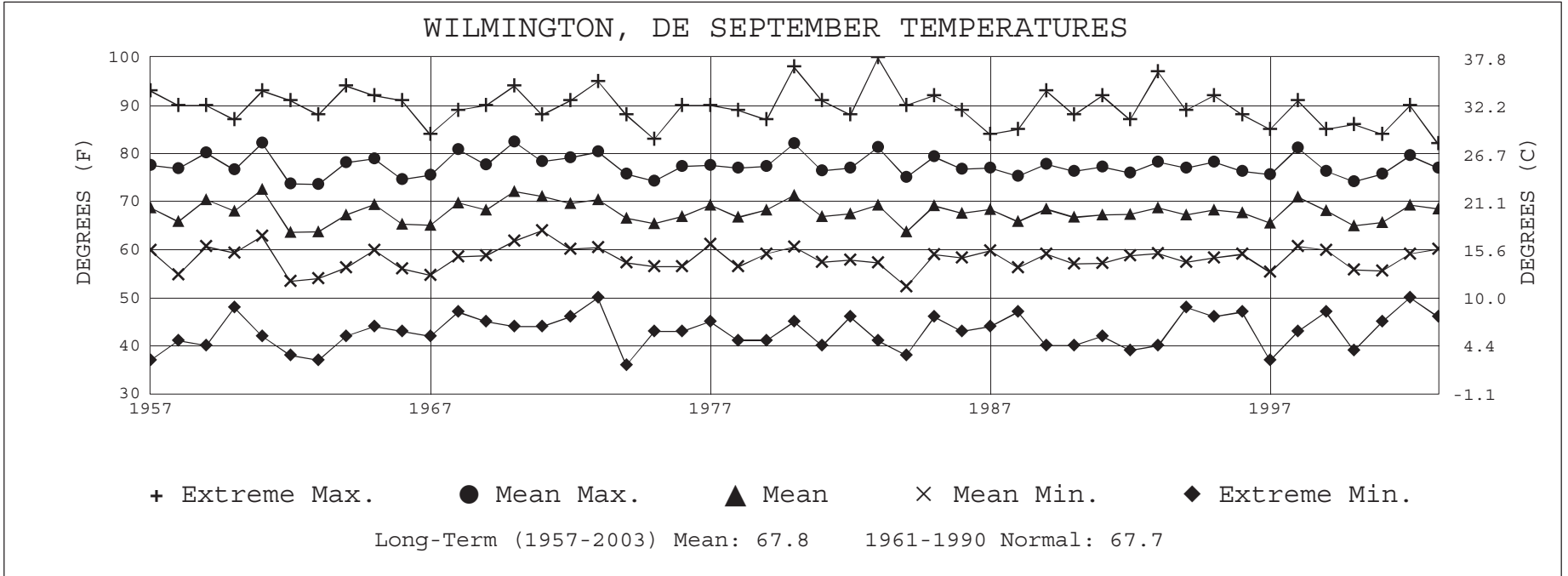
WILMINGTON, DE

SEPTEMBER 2003

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) |
| SUNRISE: 0552 SEP 25 SUNSET: 1755 | | | | | | | | | | | | SUNRISE: SEP 31 SUNSET: | | | | | | | | | | | | |
| 01 | CLR | NC | | 9.00 | | | | | | | 29.97 | 30.06 | | | | | | | | | | | | |
| 04 | CLR | NC | | 10.00 | | | | | | | 29.96 | 30.04 | | | | | | | | | | | | |
| 07 | CLR | NC | | 5.00 | BR | | | | | | 29.95 | 30.04 | | | | | | | | | | | | |
| 10 | CLR | NC | | 10.00 | | | | | | | 29.93 | 30.01 | | | | | | | | | | | | |
| 13 | CLR | NC | | 10.00 | | | | | | | 29.89 | 29.98 | | | | | | | | | | | | |
| 16 | CLR | NC | | 10.00 | | | | | | | 29.86 | 29.95 | | | | | | | | | | | | |
| 19 | CLR | NC | | 10.00 | | | | | | | 29.87 | 29.96 | | | | | | | | | | | | |
| 22 | FEW | NC | | 7.00 | | | | | | | 29.91 | 30.00 | | | | | | | | | | | | |
| SUNRISE: 0553 SEP 26 SUNSET: 1753 | | | | | | | | | | | | 3-HOURLY OBSERVATION NOTES | | | | | | | | | | | | |
| 01 | SCT | NC | | 9.00 | | | | | | | 29.91 | 30.00 | | | | | | | | | | | | |
| 04 | FEW | NC | | 10.00 | | | | | | | 29.91 | 30.00 | | | | | | | | | | | | |
| 07 | BKN | 100 | | 7.00 | | | | | | | 29.94 | 30.03 | | | | | | | | | | | | |
| 10 | FEW | NC | | 7.00 | | | | | | | 29.95 | 30.03 | | | | | | | | | | | | |
| 13 | BKN | 024 | | 8.00 | | | | | | | 29.93 | 30.02 | | | | | | | | | | | | |
| 16 | FEW | NC | | 8.00 | | | | | | | 29.90 | 29.99 | | | | | | | | | | | | |
| 19 | BKN | 080 | | 10.00 | | | | | | | 29.91 | 29.99 | | | | | | | | | | | | |
| 22 | SCT | NC | | 10.00 | | | | | | | 29.92 | 30.01 | | | | | | | | | | | | |
| SUNRISE: 0554 SEP 27 SUNSET: 1752 | | | | | | | | | | | | 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. | | | | | | | | | | | | |
| 01 | CLR | NC | | 8.00 | | | | | | | 29.91 | 30.00 | | | | | | | | | | | | |
| 04 | OVC | 001 | | 2.50 | BR | | | | | | 29.88 | 29.96 | | | | | | | | | | | | |
| 07 | OVC | 003 | | 3.00 | BR | | | | | | 29.89 | 29.97 | | | | | | | | | | | | |
| 10 | OVC | 007 | | 9.00 | | | | | | | 29.88 | 29.97 | | | | | | | | | | | | |
| 13 | OVC | 047 | | 9.00 | RA | | | | | | 29.84 | 29.93 | | | | | | | | | | | | |
| 16 | FEW | NC | | 10.00 | | | | | | | 29.75 | 29.84 | | | | | | | | | | | | |
| 19 | SCT | NC | | 10.00 | | | | | | | 29.78 | 29.86 | | | | | | | | | | | | |
| 22 | BKN | 100 | | 10.00 | | | | | | | 29.76 | 29.85 | | | | | | | | | | | | |
| SUNRISE: 0555 SEP 28 SUNSET: 1750 | | | | | | | | | | | | SUMMARY BY HOUR | | | | | | | | | | | | |
| 01 | OVC | 020 | | 10.00 | -RA | | | | | | 29.70 | 29.79 | | | | | | | | | | | | |
| 04 | OVC | 080 | | 10.00 | -RA | | | | | | 29.67 | 29.76 | | | | | | | | | | | | |
| 07 | OVC | 025 | | 10.00 | | | | | | | 29.65 | 29.74 | | | | | | | | | | | | |
| 10 | BKN | 080 | | 10.00 | | | | | | | 29.65 | 29.74 | | | | | | | | | | | | |
| 13 | OVC | 037 | | 10.00 | | | | | | | 29.64 | 29.73 | | | | | | | | | | | | |
| 16 | OVC | 065 | | 10.00 | | | | | | | 29.64 | 29.73 | | | | | | | | | | | | |
| 19 | FEW | NC | | 10.00 | | | | | | | 29.68 | 29.77 | | | | | | | | | | | | |
| 22 | CLR | NC | | 10.00 | | | | | | | 29.72 | 29.81 | | | | | | | | | | | | |
| SUNRISE: 0556 SEP 29 SUNSET: 1749 | | | | | | | | | | | | AVERAGES | | | | | | | | | | | | |
| HOUR (LST) | CEILOMETER | EFF CLD AMT | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY | PRESSURE (INCHES, HG) | | VISIBILITY (MILES) | WIND SPEED (MPH) | RESULTANT WIND (MPH) | | | | | | | | | | | | | |
| | | | | | | | STATION | SEA LEVEL | | | SPEED | DIRECTION | | | | | | | | | | | | |
| 01 | | | 65 | 63 | 64 | 93 | 29.99 | 30.08 | 9.33 | 7 | 2 | 6 | | | | | | | | | | | | |
| 02 | | | 64 | 63 | 63 | 94 | 29.98 | 30.07 | 9.32 | 8 | 2 | 6 | | | | | | | | | | | | |
| 03 | | | 64 | 62 | 63 | 94 | 29.98 | 30.07 | 8.98 | 8 | 2 | 5 | | | | | | | | | | | | |
| 04 | | | 63 | 62 | 62 | 94 | 29.98 | 30.07 | 9.18 | 8 | 2 | 6 | | | | | | | | | | | | |
| 05 | | | 63 | 61 | 62 | 95 | 29.98 | 30.07 | 9.10 | 8 | 2 | 4 | | | | | | | | | | | | |
| 06 | | | 63 | 62 | 62 | 95 | 29.99 | 30.08 | 7.96 | 8 | 2 | 4 | | | | | | | | | | | | |
| 07 | | | 65 | 62 | 63 | 92 | 30.01 | 30.09 | 7.82 | 8 | 3 | 1 | | | | | | | | | | | | |
| 08 | | | 67 | 63 | 64 | 87 | 30.01 | 30.10 | 8.17 | 9 | 4 | 3 | | | | | | | | | | | | |
| 09 | | | 69 | 62 | 65 | 79 | 30.02 | 30.11 | 8.58 | 10 | 4 | 4 | | | | | | | | | | | | |
| 10 | | | 71 | 62 | 66 | 75 | 30.02 | 30.11 | 9.35 | 11 | 4 | 5 | | | | | | | | | | | | |
| 11 | | | 73 | 62 | 66 | 70 | 30.02 | 30.11 | 9.40 | 11 | 4 | 6 | | | | | | | | | | | | |
| 12 | | | 74 | 62 | 67 | 68 | 30.00 | 30.09 | 9.41 | 10 | 2 | 7 | | | | | | | | | | | | |
| 13 | | | 74 | 62 | 67 | 67 | 30.00 | 30.08 | 9.28 | 11 | 2 | 11 | | | | | | | | | | | | |
| 14 | | | 74 | 62 | 67 | 67 | 29.98 | 30.07 | 9.60 | 10 | 2 | 5 | | | | | | | | | | | | |
| 15 | | | 75 | 62 | 67 | 67 | 29.97 | 30.06 | 9.43 | 11 | 2 | 6 | | | | | | | | | | | | |
| 16 | | | 74 | 62 | 67 | 67 | 29.97 | 30.05 | 9.36 | 10 | 2 | 7 | | | | | | | | | | | | |
| 17 | | | 73 | 62 | 66 | 70 | 29.97 | 30.06 | 9.67 | 10 | 2 | 8 | | | | | | | | | | | | |
| 18 | | | 71 | 62 | 66 | 75 | 29.97 | 30.06 | 9.43 | 9 | 3 | 8 | | | | | | | | | | | | |
| 19 | | | 69 | 62 | 65 | 80 | 29.98 | 30.06 | 9.52 | 8 | 3 | 9 | | | | | | | | | | | | |
| 20 | | | 68 | 63 | 65 | 85 | 29.99 | 30.08 | 9.13 | 8 | 3 | 9 | | | | | | | | | | | | |
| 21 | | | 67 | 62 | 64 | 87 | 30.00 | 30.08 | 8.80 | 8 | 3 | 9 | | | | | | | | | | | | |
| 22 | | | 66 | 63 | 64 | 90 | 30.00 | 30.09 | 8.55 | 8 | 2 | 9 | | | | | | | | | | | | |
| 23 | | | 65 | 62 | 64 | 91 | 30.00 | 30.09 | 9.10 | 8 | 2 | 8 | | | | | | | | | | | | |
| 24 | | | 65 | 62 | 63 | 92 | 29.99 | 30.08 | 8.77 | 8 | 2 | 6 | | | | | | | | | | | | |
| SUNRISE: 0557 SEP 30 SUNSET: 1747 | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | CLR | NC | | 10.00 | | | | | | | 30.11 | 30.20 | | | | | | | | | | | | |
| 04 | CLR | NC | | 10.00 | | | | | | | 30.14 | 30.22 | | | | | | | | | | | | |
| 07 | CLR | NC | | 10.00 | | | | | | | 30.18 | 30.27 | | | | | | | | | | | | |
| 10 | CLR | NC | | 10.00 | | | | | | | 30.19 | 30.28 | | | | | | | | | | | | |
| 13 | CLR | NC | | 10.00 | | | | | | | 30.15 | 30.24 | | | | | | | | | | | | |
| 16 | CLR | NC | | 10.00 | | | | | | | 30.12 | 30.21 | | | | | | | | | | | | |
| 19 | CLR | NC | | 10.00 | | | | | | | 30.14 | 30.23 | | | | | | | | | | | | |
| 22 | CLR | NC | | 10.00 | | | | | | | 30.14 | 30.23 | | | | | | | | | | | | |





SEPTEMBER 2003

WILMINGTON, DE

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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DIRECTOR

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