# JUNE 2010
# LOCAL CLIMATOLOGICAL DATA
## NOAA, National Climatic Data Center

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

| Date | Temperature °F | | | | | | Deg Days BASE 65° | | WEATHER | SNOW/ICE ON GND(IN) | | PRECIPITATION ON GND(IN) | | PRESSURE (INCHES OF HG) | | WIND SPEED = MPH DIR = TENS OF DEGREES | | | | | | | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 0700 LST | 1300 LST | 2400 LST | 2400 LST | | | | | | MAXIMUM 3-SEC | | MAXIMUM 2-MIN | | |
| | MAXIMUM | MINIMUM | AVERAGE | DEP FROM NORMAL | AVERAGE DEW PT | AVERAGE WET BULB | HEATING | COOLING | | DEPTH | WATER-EQUIV | SNOW-FALL | WATER EQUIV | AVERAGE STATION | AVERAGE SEA LEVEL | RESULTANT SPEED | RES DIR | AVERAGE SPEED | 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 | 86 | 71 | 79 | 12 | 67 | 70 | 0 | 14 | RA | 0 | | 0.0 | T | 29.77 | 29.84 | 9.3 | 23 | 10.0 | 26 | 26 | 21 | 23 | 01 |
| 02 | 88 | 66 | 77 | 9 | 65 | 69 | 0 | 12 | FG+ FG BR HZ | 0 | | 0.0 | 0.00 | 29.75 | 29.82 | 2.9 | 19 | 4.7 | 21 | 19 | 16 | 20 | 02 |
| 03 | 90 | 70 | 80 | 12 | 66 | 71 | 0 | 15 | BR HZ | 0 | | 0.0 | 0.00 | 29.65 | 29.73 | 6.4 | 25 | 7.4 | 21 | 26 | 17 | 31 | 03 |
| 04 | 87 | 69 | 78 | 10 | 68 | 71 | 0 | 13 | | 0 | | 0.0 | 0.00 | 29.73 | 29.81 | 2.4 | 18 | 4.3 | 16 | 17 | 14 | 18 | 04 |
| 05 | 90 | 71 | 81 | 13 | 67 | 72 | 0 | 16 | RA HZ | 0 | | 0.0 | T | 29.67 | 29.74 | 7.6 | 25 | 7.9 | 26 | 27 | 20 | 27 | 05 |
| 06 | 91 | 66 | 79 | 10 | 64 | 69 | 0 | 14 | RA | 0 | | 0.0 | T | 29.49 | 29.58 | 7.7 | 27 | 11.3 | 33 | 32 | 25 | 32 | 06 |
| 07 | 77 | 53* | 65 | -5 | 46 | 56 | 0 | 0 | | 0 | | 0.0 | 0.00 | 29.77 | 29.88 | 7.0 | 32 | 7.8 | 24 | 28 | 21 | 28 | 07 |
| 08 | 78 | 54 | 66 | -4 | 43 | 54 | 0 | 1 | | 0 | | 0.0 | 0.00 | 29.98 | 30.09 | 8.2 | 32 | 8.6 | 24 | 32 | 21 | 32 | 08 |
| 09 | 68 | 55 | 62* | -8 | 55 | 59 | 3 | 0 | RA BR | 0 | | 0.0 | 0.36 | 29.95 | 30.00 | 7.2 | 16 | 8.3 | 24 | 17 | 18 | 16 | 09 |
| 10 | 87 | 63 | 75 | 5 | 60 | 65 | 0 | 10 | BR HZ | 0 | | 0.0 | 0.00 | 29.76 | 29.87 | 5.1 | 30 | 6.7 | 25 | 17 | 20 | 28 | 10 |
| 11 | 79 | 59 | 69 | -1 | 55 | 61 | 0 | 4 | | 0 | | 0.0 | 0.00 | 30.01 | 30.12 | 3.4 | 12 | 7.2 | 24 | 08 | 15 | 17 | 11 |
| 12 | 86 | 64 | 75 | 5 | 66 | 69 | 0 | 10 | BR | 0 | | 0.0 | 0.00 | 29.98 | 30.04 | 7.9 | 17 | 8.3 | 20 | 15 | 16 | 17 | 12 |
| 13 | 92 | 73 | 83 | 12 | 71 | 74 | 0 | 18 | RA BR HZ | 0 | | 0.0 | T | 29.75 | 29.84 | 3.2 | 28 | 6.6 | 29 | 27 | 23 | 29 | 13 |
| 14 | 88 | 69 | 79 | 8 | 65 | 69 | 0 | 14 | BR HZ | 0 | | 0.0 | 0.00 | 29.77 | 29.86 | 4.1 | 30 | 7.3 | 24 | 28 | 18 | 29 | 14 |
| 15 | 80 | 67 | 74 | 2 | 61 | 66 | 0 | 9 | | 0 | | 0.0 | 0.00 | 29.95 | 30.06 | 4.5 | 11 | 8.4 | 21 | 15 | 17 | 15 | 15 |
| 16 | 77 | 67 | 72 | 0 | 66 | 69 | 0 | 7 | RA BR | 0 | | 0.0 | T | 29.98 | 30.04 | 8.8 | 15 | 9.3 | 22 | 15 | 18 | 16 | 16 |
| 17 | 86 | 61 | 74 | 2 | 59 | 65 | 0 | 9 | BR | 0 | | 0.0 | 0.00 | 29.82 | 29.92 | 10.4 | 32 | 12.5 | 31 | 31 | 24 | 32 | 17 |
| 18 | 85 | 59 | 72 | -1 | 56 | 63 | 0 | 7 | | 0 | | 0.0 | 0.00 | 29.99 | 30.09 | 2.4 | 12 | 7.1 | 21 | 07 | 17 | 16 | 18 |
| 19 | 86 | 64 | 75 | 2 | 66 | 69 | 0 | 10 | | 0 | | 0.0 | 0.00 | 29.96 | 30.04 | 7.3 | 17 | 7.5 | 21 | 17 | 18 | 18 | 19 |
| 20 | 96 | 73 | 85 | 12 | 65 | 71 | 0 | 20 | BR | 0 | | 0.0 | 0.00 | 29.83 | 29.91 | 6.7 | 28 | 8.0 | 24 | 29 | 20 | 29 | 20 |
| 21 | 92 | 68 | 80 | 7 | 61 | | 0 | 15 | | 0 | | 0.0 | 0.00 | 29.93 | | 5.6 | 31 | 6.2 | 20 | 29 | 15 | 32 | 21 |
| 22 | 91 | 67 | 79 | 6 | 66 | 71 | 0 | 14 | TS TSRA RA BR | 0 | | 0.0 | 0.32 | 29.98 | 30.06 | 4.9 | 16 | 7.2 | 33 | 27 | 25 | 27 | 22 |
| 23 | 95 | 71 | 83 | 9 | 67 | 72 | 0 | 18 | BR HZ | 0 | | 0.0 | 0.00 | 29.90 | 29.97 | 5.2 | 27 | 6.2 | 24 | 30 | 18 | 30 | 23 |
| 24 | 98* | 73 | 86* | 12 | 69 | 74 | 0 | 21 | RA FG+ HZ | 0 | | 0.0 | 0.71 | 29.75 | 29.84 | 6.5 | 27 | 8.1 | 70* | 29 | 47* | 29 | 24 |
| 25 | 88 | 70 | 79 | 5 | 62 | 68 | 0 | 14 | | 0 | | 0.0 | 0.00 | 29.90 | 29.99 | 4.1 | 32 | 5.8 | 17 | 02 | 14 | 02 | 25 |
| 26 | 90 | 66 | 78 | 4 | 65 | 70 | 0 | 13 | BR HZ | 0 | | 0.0 | 0.00 | 29.84 | 29.91 | 3.6 | 23 | 5.0 | 23 | 25 | 17 | 25 | 26 |
| 27 | 96 | 73 | 85 | 11 | 70 | 74 | 0 | 20 | RA BR HZ | 0 | | 0.0 | T | 29.67 | 29.74 | 5.5 | 23 | 6.2 | 18 | 22 | 15 | 22 | 27 |
| 28 | 94 | 76 | 85 | 10 | 72 | 75 | 0 | 20 | TS RA BR | 0 | | 0.0 | 0.44 | 29.57 | 29.66 | 6.8 | 24 | 7.4 | 29 | 27 | 23 | 30 | 28 |
| 29 | 91 | 70 | 81 | 6 | 63 | 69 | 0 | 16 | | 0 | | 0.0 | 0.00 | 29.75 | 29.85 | 9.5 | 29 | 10.0 | 26 | 28 | 22 | 28 | 29 |
| 30 | 79 | 62 | 71 | -4 | 46 | 57 | 0 | 6 | | 0 | | 0.0 | 0.00 | 29.99 | 30.10 | 6.5 | 33 | 8.1 | 23 | 31 | 17 | 31 | 30 |
| | 87.0 | 66.3 | 76.7 | ¤ | 62.4 | 67.7 | 0.1 | 12.0 | < MONTHLY AVERAGES \| TOTALS > | | | 0.0 | 1.83 | 29.83 | 29.91 | 3.0 | 26 | 7.6 | < MONTHLY AVERAGES | | | | |
| | 5.9 | 4.5 | 5.2 | | <---------- DEPARTURE FROM NORMAL ----------> | | | | | | | | -1.76 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 | | | | | | | | | |

JUNE 2010
WILMINGTON, DE

### DEGREE DAYS

| | MONTHLY TOTAL | MONTHLY DEPARTURE | SEASON TO DATE TOTAL | SEASON TO DATE DEPARTURE |
|---|---|---|---|---|
| HEATING : | 3 | -12 | 4550 | -338 |
| COOLING : | 360 | 145 | 502 | 214 |

| | | | |
|---|---|---|---|
| GREATEST 24-HR PRECIPITATION : | 0.71 | DATE : | 24 |
| GREATEST 24-HR SNOWFALL : | 0.0 | DATE : | |
| GREATEST SNOW DEPTH : | 0 | DATE : | |

| SEA LEVEL PRESSURE | | DATE | TIME |
|---|---|---|---|
| MAXIMUM : | 30.18 | 11 | 2231 |
| MIMIMUM : | 29.46 | 06 | 1251 |

**NUMBER OF -> DAYS WITH**

| | | | | | |
|---|---|---|---|---|---|
| MAXIMUM TEMP >= 90 : | 13 | MINIMUM TEMP <= 32 : | 0 | PRECIPITATION >= 0.01 INCH: | 4 |
| MAXIMUM TEMP <= 32 : | 0 | MINIMUM TEMP <= 0 : | 0 | PRECIPITATION >= 0.10 INCH: | 4 |
| THUNDERSTORMS : | 2 | HEAVY FOG : | 2 | SNOWFALL >= 1.0 INCH : | 0 |

# HOURLY PRECIPITATION
## (WATER EQUIVALENT IN INCHES)

## WILMINGTON, DE (KILG)
**JUNE 2010** **WBAN # 13781**

| Date | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | Date | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | Date | Sum of Hourly Data | 2400 LST Water Equiv. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | |
| 01 | | | | | | | | | | | | T | 01 | T | | | | | T | T | | | | | | 01 | T | T |
| 02 | | | | | | | | | | | | | 02 | | | | | | | | | | | | | 02 | 0.00 | 0.00 |
| 03 | | | | | | | | | | | | | 03 | | | | | | | | | | | | | 03 | 0.00 | 0.00 |
| 04 | | | | | | | | | | | | | 04 | | | | | | | | | | | | | 04 | 0.00 | 0.00 |
| 05 | | | | | | | | | | | | | 05 | | | | | | | | | | T | | | 05 | T | T |
| 06 | | | | | | | | | | | | | 06 | | T | T | T | | | | | | | | | 06 | T | T |
| 07 | | | | | | | | | | | | | 07 | | | | | | | | | | | | | 07 | 0.00 | 0.00 |
| 08 | | | | | | | | | | | | | 08 | | | | | | | | | | | | | 08 | 0.00 | 0.00 |
| 09 | | | | | | | | | | | | 0.01 | 09 | 0.08 | 0.19 | 0.06 | 0.01 | T | 0.01 | | T | T | | T | | 09 | 0.36 | 0.36 |
| 10 | | | | | | | | | | | | | 10 | | | | | | | | | | | | | 10 | 0.00 | 0.00 |
| 11 | | | | | | | | | | | | | 11 | | | | | | | | | | | | | 11 | 0.00 | 0.00 |
| 12 | | | | | | | | | | | | | 12 | | | | | | | | | | | | | 12 | 0.00 | 0.00 |
| 13 | | | | | | | | | | | | | 13 | | T | T | | T | T | | | | | | | 13 | T | T |
| 14 | | | | | | | | | | | | | 14 | | | | | | | | | | | | | 14 | 0.00 | 0.00 |
| 15 | | | | | | | | | | | | | 15 | | | | | | | | | | | | | 15 | 0.00 | 0.00 |
| 16 | T | T | T | T | | | T | T | | T | T | | 16 | | | | | | | | | | | | | 16 | T | T |
| 17 | | | | | | | | | | | | | 17 | | | | | | | | | | | | | 17 | 0.00 | 0.00 |
| 18 | | | | | | | | | | | | | 18 | | | | | | | | | | | | | 18 | 0.00 | 0.00 |
| 19 | | | | | | | | | | | | | 19 | | | | | | | | | | | | | 19 | 0.00 | 0.00 |
| 20 | | | | | | | | | | | | | 20 | | | | | | | | | | | | | 20 | 0.00 | 0.00 |
| 21 | | | | | | | | | | | | | 21 | | | | | | | | | | | | | 21 | 0.00 | 0.00 |
| 22 | | | | | | | | | | | | | 22 | | | | | | 0.26 | 0.06 | T | | | | | 22 | 0.32 | 0.32 |
| 23 | | | | | | | | | | | | | 23 | | | | | | | | | | | | | 23 | 0.00 | 0.00 |
| 24 | | | | | | | | | | | | | 24 | | | | 0.71 | | | | | | | | | 24 | 0.71 | 0.71 |
| 25 | | | | | | | | | | | | | 25 | | | | | | | | | | | | | 25 | 0.00 | 0.00 |
| 26 | | | | | | | | | | | | | 26 | | | | | | | | | | | | | 26 | 0.00 | 0.00 |
| 27 | | | | | | | | | | | | | 27 | | | | | | | | | T | | | | 27 | T | T |
| 28 | | | | | | | | | | | | | 28 | 0.01 | 0.14 | 0.28 | 0.01 | | | | | | | | | 28 | 0.44 | 0.44 |
| 29 | | | | | | | | | | | | | 29 | | | | | | | | | | | | | 29 | 0.00 | 0.00 |
| 30 | | | | | | | | | | | | | 30 | | | | | | | | | | | | | 30 | 0.00 | 0.00 |

*** Indicates sum of Hourly and Daily disagree.**

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes) | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Precipitation (Inches) | 0.32 | 0.59 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Ending Date | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Ending Time (Hr/Min) | 1512 | 1518 | 1522 | 1522 | 1522 | 1522 | 1522 | 1522 | 1522 | 1522 | 1522 | 1522 |

**Date and time are not entered for TRACE amounts.**

**Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.**

# REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

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

**T = Trace precipitation amount.**

**+ = also occurs on earlier date.**

**FG+ = Heavy fog, visibility .25 miles or less.**

**BLANK entries denote missing or unreported data.**

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

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

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

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

**NORMALS ARE FOR THE YEARS 1971-2000**

## WEATHER NOTATIONS

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

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

# WILMINGTON, DE
# JUNE 2010

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

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

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

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

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

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

## ADDITIONAL NOTES:

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

| Date | SUNSHINE | | CLOUDINESS (OKTAS) | | | | VISIBILITY (MILES) | | RESERVED |
|---|---|---|---|---|---|---|---|---|---|
| | | | SR-SS | | MN-MN | | | | |
| | TOTAL MINUTES | PERCENT POSSIBLE | Sky Cover | Satellite | Sky Cover | Satellite | MINIMUM | MAXIMUM | |
| 01 | | | | | | | 10.00 | 10.00 | |
| 02 | | | | | | | 0.75 | 10.00 | |
| 03 | | | | | | | 4.00 | 10.00 | |
| 04 | | | | | | | 8.00 | 10.00 | |
| 05 | | | | | | | 5.00 | 10.00 | |
| 06 | | | | | | | 7.00 | 10.00 | |
| 07 | | | | | | | 10.00 | 10.00 | |
| 08 | | | | | | | 10.00 | 10.00 | |
| 09 | | | | | | | 2.00 | 10.00 | |
| 10 | | | | | | | 2.00 | 10.00 | |
| 11 | | | | | | | 10.00 | 10.00 | |
| 12 | | | | | | | 6.00 | 10.00 | |
| 13 | | | | | | | 5.00 | 10.00 | |
| 14 | | | | | | | 5.00 | 10.00 | |
| 15 | | | | | | | 10.00 | 10.00 | |
| 16 | | | | | | | 5.00 | 10.00 | |
| 17 | | | | | | | 4.00 | 10.00 | |
| 18 | | | | | | | 10.00 | 10.00 | |
| 19 | | | | | | | 10.00 | 10.00 | |
| 20 | | | | | | | 6.00 | 10.00 | |
| 21 | | | | | | | 10.00 | 10.00 | |
| 22 | | | | | | | 0.75 | 10.00 | |
| 23 | | | | | | | 2.50 | 10.00 | |
| 24 | | | | | | | 10.00 | 10.00 | |
| 25 | | | | | | | 10.00 | 10.00 | |
| 26 | | | | | | | 6.00 | 10.00 | |
| 27 | | | | | | | 2.50 | 10.00 | |
| 28 | | | | | | | 4.00 | 10.00 | |
| 29 | | | | | | | 10.00 | 10.00 | |
| 30 | | | | | | | 10.00 | 10.00 | |
| MONTHLY AVGS | | | | | | | 6.52 | 10.00 | |

### SUNSHINE (Minutes)

**Total : 0** **Possible : 26858**
**Percent Possible : 0**

### NUMBER OF DAYS WITH :

**SKY CONDITION**

| Clear | Partly CLDY | Cloudy | Missing |
|---|---|---|---|
| | | | |

**MINIMUM VISIBILTY (MILES)**

| <= .25 | <= 3.0 | >= 7.0 |
|---|---|---|
| 0 | 6 | 14 |

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

**JUNE 2010** **KILG** **WBAN # 13781**

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE Observation Time (LST) | SATELLITE Eff Cld Amt Oktas | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F DRY BULB | TEMPERATURE °F DEW POINT | TEMPERATURE °F WET BULB | RELATIVE HUMIDITY (PCT) | WIND SPEED (MPH) | WIND DIRECTION Tens of Deg | PRESSURE (INCHES, HG) STATION | PRESSURE (INCHES, HG) SEA LEVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **SUNRISE: 0437 JUN 01 SUNSET: 1923** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 76 | 66 | 70 | 71 | 8 | 20 | 29.83 | 29.90 |
| 04 | CLR | NC | | | 10.00 | | 74 | 64 | 68 | 71 | 10 | 19 | 29.78 | 29.86 |
| 07 | BKN | 023 | | | 10.00 | | 75 | 66 | 69 | 74 | 14 | 23 | 29.80 | 29.87 |
| 10 | CLR | NC | | | 10.00 | | 80 | 68 | 72 | 67 | 13 | 22 | 29.78 | 29.85 |
| 13 | CLR | NC | | | 10.00 | | 83 | 67 | 72 | 59 | 14 | 24 | 29.73 | 29.82 |
| 16 | CLR | NC | | | 10.00 | | 84 | 65 | 71 | 53 | 11 | 26 | 29.70 | 29.78 |
| 19 | CLR | NC | | | 10.00 | | 77 | 67 | 70 | 71 | 7 | 24 | 29.72 | 29.80 |
| 22 | CLR | NC | | | 10.00 | | 73 | 68 | 70 | 84 | 6 | 25 | 29.77 | 29.84 |
| | | | | | | **SUNRISE: 0437 JUN 02 SUNSET: 1924** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 71 | 68 | 69 | 90 | 0 | 00 | 29.75 | 29.82 |
| 04 | CLR | NC | | | 8.00 | | 68 | 66 | 67 | 93 | 0 | 00 | 29.77 | 29.85 |
| 07 | CLR | NC | | | 9.00 | | 73 | 67 | 69 | 82 | 0 | 00 | 29.80 | 29.88 |
| 10 | CLR | NC | | | 10.00 | | 81 | 66 | 71 | 60 | 0 | 00 | 29.80 | 29.88 |
| 13 | CLR | NC | | | 10.00 | | 86 | 64 | 72 | 48 | 3 | VR | 29.75 | 29.84 |
| 16 | CLR | NC | | | 10.00 | | 87 | 56 | 68 | 35 | 6 | VR | 29.72 | 29.80 |
| 19 | CLR | NC | | | 10.00 | | 79 | 66 | 70 | 65 | 10 | 16 | 29.70 | 29.78 |
| 22 | CLR | NC | | | 10.00 | | 74 | 70 | 71 | 87 | 9 | 17 | 29.67 | 29.75 |
| | | | | | | **SUNRISE: 0436 JUN 03 SUNSET: 1925** | | | | | | | | |
| 01 | SCT | 060 | | | 10.00 | | 73 | 66 | 69 | 79 | 5 | 23 | 29.67 | 29.76 |
| 04 | CLR | NC | | | 5.00 | BR | 72 | 69 | 70 | 90 | 0 | 00 | 29.62 | 29.71 |
| 07 | CLR | NC | | | 6.00 | HZ | 76 | 71 | 73 | 85 | 8 | 22 | 29.65 | 29.74 |
| 10 | CLR | NC | | | 10.00 | | 85 | 65 | 72 | 51 | 11 | 25 | 29.65 | 29.74 |
| 13 | BKN | 065 | | | 10.00 | | 86 | 65 | 72 | 50 | 8 | 24 | 29.65 | 29.72 |
| 16 | BKN | 060 | | | 10.00 | | 88 | 64 | 72 | 45 | 7 | 25 | 29.61 | 29.69 |
| 19 | CLR | NC | | | 10.00 | | 82 | 64 | 70 | 55 | 7 | 22 | 29.62 | 29.70 |
| 22 | FEW | 110 | | | 10.00 | | 74 | 60 | 65 | 62 | 7 | 34 | 29.70 | 29.77 |
| | | | | | | **SUNRISE: 0436 JUN 04 SUNSET: 1925** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 71 | 67 | 68 | 87 | 5 | 27 | 29.70 | 29.78 |
| 04 | CLR | NC | | | 10.00 | | 70 | 66 | 67 | 87 | 3 | 28 | 29.72 | 29.80 |
| 07 | CLR | NC | | | 10.00 | | 75 | 67 | 70 | 76 | 3 | 29 | 29.77 | 29.85 |
| 10 | CLR | NC | | | 10.00 | | 84 | 63 | 70 | 49 | 0 | 00 | 29.78 | 29.85 |
| 13 | FEW | 070 | | | 10.00 | | 85 | 68 | 74 | 57 | 8 | 15 | 29.75 | 29.83 |
| 16 | FEW | 070 | | | 10.00 | | 85 | 68 | 74 | 57 | 0 | 00 | 29.72 | 29.80 |
| 19 | CLR | NC | | | 10.00 | | 79 | 70 | 73 | 74 | 6 | 17 | 29.72 | 29.80 |
| 22 | CLR | NC | | | 10.00 | | 76 | 69 | 71 | 79 | 0 | 00 | 29.73 | 29.81 |
| | | | | | | **SUNRISE: 0436 JUN 05 SUNSET: 1926** | | | | | | | | |
| 01 | FEW | 048 | | | 8.00 | | 72 | 68 | 69 | 87 | 5 | 33 | 29.70 | 29.78 |
| 04 | CLR | NC | | | 8.00 | | 73 | 67 | 69 | 82 | 0 | 00 | 29.67 | 29.75 |
| 07 | CLR | NC | | | 5.00 | HZ | 76 | 70 | 72 | 82 | 7 | 23 | 29.69 | 29.76 |
| 10 | CLR | NC | | | 10.00 | | 82 | 68 | 73 | 63 | 8 | 24 | 29.69 | 29.76 |
| 13 | SCT | 049 | | | 10.00 | | 87 | 66 | 73 | 50 | 14 | 26 | 29.65 | 29.74 |
| 16 | CLR | NC | | | 10.00 | | 85 | 68 | 74 | 57 | 15 | 26 | 29.65 | 29.73 |
| 19 | CLR | NC | | | 10.00 | | 82 | 66 | 71 | 58 | 9 | 24 | 29.65 | 29.73 |
| 22 | CLR | NC | | | 10.00 | | 80 | 67 | 71 | 65 | 6 | 24 | 29.65 | 29.72 |
| | | | | | | **SUNRISE: 0435 JUN 06 SUNSET: 1927** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 76 | 67 | 70 | 74 | 5 | 25 | 29.59 | 29.66 |
| 04 | CLR | NC | | | 10.00 | | 73 | 67 | 69 | 82 | 0 | 00 | 29.57 | 29.65 |
| 07 | CLR | NC | | | 8.00 | | 78 | 71 | 73 | 79 | 8 | 22 | 29.53 | 29.61 |
| 10 | CLR | NC | | | 10.00 | | 90 | 68 | 75 | 48 | 13 | 22 | 29.44 | 29.51 |
| 13 | CLR | NC | | | 10.00 | | 88 | 68 | 74 | 52 | 16 | 24 | 29.39 | 29.46 |
| 16 | SCT | 100 | | | 10.00 | -RA | 81 | 67 | 72 | 63 | 15 | 27 | 29.41 | 29.48 |
| 19 | CLR | NC | | | 10.00 | | 78 | 55 | 64 | 45 | 21 | 31 | 29.49 | 29.57 |
| 22 | CLR | NC | | | 10.00 | | 69 | 49 | 58 | 49 | 15 | 33 | 29.62 | 29.70 |

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE Observation Time (LST) | SATELLITE Eff Cld Amt Oktas | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F DRY BULB | TEMPERATURE °F DEW POINT | TEMPERATURE °F WET BULB | RELATIVE HUMIDITY (PCT) | WIND SPEED (MPH) | WIND DIRECTION Tens of Deg | PRESSURE (INCHES, HG) STATION | PRESSURE (INCHES, HG) SEA LEVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **SUNRISE: 0435 JUN 07 SUNSET: 1927** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 62 | 48 | 55 | 60 | 6 | 34 | 29.67 | 29.75 |
| 04 | CLR | NC | | | 10.00 | | 55 | 45 | 50 | 69 | 6 | 32 | 29.72 | 29.81 |
| 07 | FEW | 065 | | | 10.00 | | 62 | 47 | 54 | 58 | 6 | 31 | 29.78 | 29.86 |
| 10 | CLR | NC | | | 10.00 | | 70 | 42 | 55 | 36 | 9 | 30 | 29.80 | 29.89 |
| 13 | BKN | 070 | | | 10.00 | | 74 | 43 | 57 | 33 | 8 | 33 | 29.80 | 29.88 |
| 16 | CLR | NC | | | 10.00 | | 76 | 44 | 59 | 32 | 14 | 29 | 29.82 | 29.90 |
| 19 | CLR | NC | | | 10.00 | | 71 | 46 | 57 | 41 | 7 | 30 | 29.85 | 29.92 |
| 22 | CLR | NC | | | 10.00 | | 64 | 48 | 55 | 56 | 0 | 00 | 29.90 | 29.97 |
| | | | | | | **SUNRISE: 0435 JUN 08 SUNSET: 1928** | | | | | | | | |
| 01 | FEW | 080 | | | 10.00 | | 57 | 48 | 52 | 72 | 7 | 31 | 29.91 | 29.99 |
| 04 | CLR | NC | | | 10.00 | | 54 | 45 | 49 | 72 | 8 | 31 | 29.94 | 30.03 |
| 07 | CLR | NC | | | 10.00 | | 63 | 46 | 54 | 54 | 5 | 32 | 30.01 | 30.09 |
| 10 | CLR | NC | | | 10.00 | | 70 | 44 | 56 | 39 | 14 | 33 | 30.02 | 30.11 |
| 13 | CLR | NC | | | 10.00 | | 75 | 39 | 56 | 27 | 17 | 31 | 30.01 | 30.09 |
| 16 | CLR | NC | | | 10.00 | | 78 | 37 | 57 | 23 | 7 | VR | 30.01 | 30.09 |
| 19 | CLR | NC | | | 10.00 | | 71 | 40 | 55 | 33 | 6 | 33 | 30.03 | 30.12 |
| 22 | CLR | NC | | | 10.00 | | 63 | 46 | 54 | 54 | 3 | 34 | 30.07 | 30.16 |
| | | | | | | **SUNRISE: 0435 JUN 09 SUNSET: 1928** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 62 | 47 | 54 | 58 | 0 | 00 | 30.06 | 30.15 |
| 04 | CLR | NC | | | 10.00 | | 64 | 43 | 53 | 47 | 6 | 13 | 30.06 | 30.14 |
| 07 | FEW | 080 | | | 10.00 | | 67 | 49 | 57 | 53 | 9 | 14 | 30.06 | 30.14 |
| 10 | OVC | 065 | | | 10.00 | | 68 | 52 | 59 | 57 | 13 | 18 | 30.01 | 30.09 |
| 13 | OVC | 050 | | | 6.00 | RA | 65 | 60 | 62 | 84 | 11 | 18 | 29.93 | 30.01 |
| 16 | OVC | 041 | | | 10.00 | -RA | 63 | 60 | 61 | 90 | 9 | 14 | 29.85 | 29.93 |
| 19 | OVC | 049 | | | 10.00 | | 67 | 59 | 62 | 76 | 14 | 17 | 29.77 | 29.85 |
| 22 | OVC | 045 | | | 10.00 | | 66 | 60 | 62 | 81 | 0 | 00 | 29.73 | 29.82 |
| | | | | | | **SUNRISE: 0434 JUN 10 SUNSET: 1929** | | | | | | | | |
| 01 | OVC | 010 | | | 8.00 | | 64 | 61 | 62 | 90 | 5 | 35 | 29.73 | 29.81 |
| 04 | OVC | 013 | | | 4.00 | BR | 65 | 63 | 64 | 93 | 0 | 00 | 29.77 | 29.85 |
| 07 | BKN | 009 | | | 2.00 | BR | 67 | 63 | 65 | 87 | 3 | 26 | 29.80 | 29.88 |
| 10 | CLR | NC | | | 8.00 | | 75 | 64 | 68 | 69 | 0 | 00 | 29.80 | 29.88 |
| 13 | SCT | 080 | | | 10.00 | | 82 | 62 | 69 | 51 | 13 | 24 | 29.75 | 29.84 |
| 16 | SCT | 090 | | | 10.00 | | 83 | 59 | 68 | 44 | 11 | 30 | 29.75 | 29.83 |
| 19 | CLR | NC | | | 10.00 | | 80 | 56 | 65 | 44 | 9 | 30 | 29.78 | 29.86 |
| 22 | FEW | 075 | | | 10.00 | | 73 | 57 | 63 | 57 | 8 | 01 | 29.88 | 29.97 |
| | | | | | | **SUNRISE: 0434 JUN 11 SUNSET: 1929** | | | | | | | | |
| 01 | SCT | 080 | | | 10.00 | | 68 | 54 | 60 | 61 | 9 | 02 | 29.93 | 30.02 |
| 04 | CLR | NC | | | 10.00 | | 62 | 52 | 56 | 70 | 6 | 36 | 29.96 | 30.05 |
| 07 | CLR | NC | | | 10.00 | | 67 | 51 | 58 | 57 | 8 | 03 | 30.03 | 30.11 |
| 10 | CLR | NC | | | 10.00 | | 72 | 53 | 61 | 51 | 7 | 12 | 30.07 | 30.16 |
| 13 | FEW | 049 | | | 10.00 | | 76 | 54 | 63 | 47 | 6 | 17 | 30.06 | 30.15 |
| 16 | CLR | NC | | | 10.00 | | 77 | 55 | 64 | 47 | 7 | VR | 30.04 | 30.13 |
| 19 | CLR | NC | | | 10.00 | | 72 | 61 | 65 | 68 | 11 | 17 | 30.06 | 30.13 |
| 22 | CLR | NC | | | 10.00 | | 67 | 60 | 63 | 78 | 7 | 13 | 30.09 | 30.18 |
| | | | | | | **SUNRISE: 0434 JUN 12 SUNSET: 1930** | | | | | | | | |
| 01 | OVC | 012 | | | 10.00 | | 66 | 62 | 64 | 87 | 6 | 13 | 30.07 | 30.16 |
| 04 | FEW | 020 | | | 10.00 | | 64 | 59 | 61 | 84 | 6 | 20 | 30.04 | 30.13 |
| 07 | OVC | 070 | | | 10.00 | | 67 | 60 | 63 | 78 | 8 | 19 | 30.06 | 30.14 |
| 10 | SCT | 065 | | | 10.00 | | 76 | 63 | 68 | 64 | 13 | 14 | 30.03 | 30.11 |
| 13 | CLR | NC | | | 10.00 | | 83 | 67 | 72 | 59 | 11 | 15 | 29.96 | 30.03 |
| 16 | CLR | NC | | | 10.00 | | 85 | 69 | 74 | 59 | 13 | 17 | 29.88 | 29.96 |
| 19 | CLR | NC | | | 10.00 | | 79 | 70 | 73 | 74 | 6 | 15 | 29.85 | 29.94 |
| 22 | CLR | NC | | | 10.00 | | 77 | 71 | 73 | 82 | 7 | 18 | 29.85 | 29.92 |

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE

**JUNE 2010** **KILG** **WBAN # 13781**

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE Observation Time (LST) | SATELLITE Eff Cld Amt Oktas | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F DRY BULB | TEMPERATURE °F DEW POINT | TEMPERATURE °F WET BULB | RELATIVE HUMIDITY (PCT) | WIND SPEED (MPH) | WIND DIRECTION Tens of Deg | PRESSURE (INCHES, HG) STATION | PRESSURE (INCHES, HG) SEA LEVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **SUNRISE: 0434 JUN 13 SUNSET: 1930** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 75 | 69 | 71 | 82 | 6 | 19 | 29.80 | 29.88 |
| 04 | BKN | 007 | | | 10.00 | | 73 | 69 | 70 | 87 | 3 | 23 | 29.78 | 29.87 |
| 07 | CLR | NC | | | 8.00 | | 77 | 71 | 73 | 82 | 3 | 27 | 29.78 | 29.87 |
| 10 | CLR | NC | | | 10.00 | | 88 | 72 | 77 | 59 | 6 | VR | 29.77 | 29.85 |
| 13 | SCT | 041 | | | 10.00 | | 91 | 71 | 77 | 52 | 9 | 26 | 29.72 | 29.80 |
| 16 | CLR | NC | | | 10.00 | | 90 | 71 | 77 | 54 | 10 | 34 | 29.72 | 29.80 |
| 19 | CLR | NC | | | 10.00 | | 82 | 71 | 74 | 69 | 5 | 28 | 29.72 | 29.80 |
| 22 | OVC | 090 | | | 10.00 | | 77 | 70 | 72 | 79 | 8 | 34 | 29.78 | 29.85 |
| | | | | | | **SUNRISE: 0434 JUN 14 SUNSET: 1931** | | | | | | | | |
| 01 | BKN | 030 | | | 6.00 | HZ | 72 | 67 | 69 | 84 | 6 | 06 | 29.78 | 29.85 |
| 04 | OVC | 010 | | | 10.00 | | 69 | 65 | 66 | 87 | 8 | 10 | 29.78 | 29.86 |
| 07 | OVC | 008 | | | 5.00 | BR | 70 | 66 | 67 | 87 | 3 | 22 | 29.80 | 29.88 |
| 10 | FEW | 021 | | | 8.00 | | 79 | 67 | 71 | 67 | 5 | VR | 29.78 | 29.86 |
| 13 | BKN | 045 | | | 10.00 | | 85 | 62 | 70 | 46 | 13 | 28 | 29.77 | 29.84 |
| 16 | OVC | 070 | | | 10.00 | | 83 | 63 | 70 | 51 | 14 | 30 | 29.77 | 29.84 |
| 19 | BKN | 095 | | | 10.00 | | 80 | 65 | 70 | 60 | 7 | 29 | 29.75 | 29.84 |
| 22 | CLR | NC | | | 8.00 | | 72 | 66 | 68 | 82 | 3 | 32 | 29.80 | 29.88 |
| | | | | | | **SUNRISE: 0434 JUN 15 SUNSET: 1931** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 69 | 63 | 65 | 81 | 5 | 34 | 29.85 | 29.93 |
| 04 | CLR | NC | | | 10.00 | | 67 | 62 | 64 | 84 | 5 | 02 | 29.88 | 29.97 |
| 07 | CLR | NC | | | 10.00 | | 74 | 61 | 66 | 64 | 13 | 03 | 29.93 | 30.01 |
| 10 | CLR | NC | | | 10.00 | | 79 | 60 | 67 | 52 | 10 | 06 | 29.98 | 30.07 |
| 13 | FEW | 045 | | | 10.00 | | 79 | 59 | 67 | 50 | 5 | 15 | 30.01 | 30.09 |
| 16 | CLR | NC | | | 10.00 | | 76 | 64 | 68 | 67 | 15 | 16 | 29.99 | 30.08 |
| 19 | CLR | NC | | | 10.00 | | 72 | 64 | 67 | 76 | 11 | 17 | 30.01 | 30.10 |
| 22 | OVC | 100 | | | 10.00 | | 70 | 58 | 63 | 66 | 8 | 12 | 30.04 | 30.13 |
| | | | | | | **SUNRISE: 0434 JUN 16 SUNSET: 1932** | | | | | | | | |
| 01 | OVC | 070 | | | 10.00 | | 68 | 61 | 64 | 78 | 5 | 15 | 30.06 | 30.15 |
| 04 | OVC | 050 | | | 10.00 | | 67 | 63 | 65 | 87 | 6 | 12 | 30.06 | 30.14 |
| 07 | OVC | 011 | | | 10.00 | | 69 | 64 | 66 | 84 | 7 | 13 | 30.06 | 30.14 |
| 10 | OVC | 021 | | | 10.00 | -RA | 72 | 65 | 68 | 79 | 14 | 16 | 30.03 | 30.12 |
| 13 | FEW | 047 | | | 10.00 | | 77 | 66 | 70 | 69 | 9 | 18 | 29.98 | 30.06 |
| 16 | OVC | 033 | | | 10.00 | | 76 | 67 | 70 | 74 | 14 | 15 | 29.88 | 29.97 |
| 19 | OVC | 033 | | | 8.00 | | 75 | 70 | 72 | 85 | 13 | 17 | 29.85 | 29.93 |
| 22 | OVC | 018 | | | 7.00 | | 75 | 72 | 73 | 90 | 8 | 17 | 29.82 | 29.90 |
| | | | | | | **SUNRISE: 0434 JUN 17 SUNSET: 1932** | | | | | | | | |
| 01 | CLR | NC | | | 5.00 | BR | 74 | 72 | 73 | 94 | 6 | 26 | 29.78 | 29.86 |
| 04 | CLR | NC | | | 7.00 | | 72 | 68 | 69 | 87 | 6 | 25 | 29.78 | 29.86 |
| 07 | CLR | NC | | | 10.00 | | 76 | 63 | 68 | 64 | 11 | 27 | 29.80 | 29.88 |
| 10 | CLR | NC | | | 10.00 | | 81 | 57 | 66 | 44 | 23 | 32 | 29.80 | 29.87 |
| 13 | FEW | 050 | | | 10.00 | | 83 | 55 | 66 | 38 | 18 | 33 | 29.83 | 29.90 |
| 16 | CLR | NC | | | 10.00 | | 83 | 53 | 65 | 36 | 18 | 32 | 29.83 | 29.91 |
| 19 | FEW | 055 | | | 10.00 | | 76 | 54 | 63 | 47 | 11 | 01 | 29.90 | 29.98 |
| 22 | CLR | NC | | | 10.00 | | 67 | 53 | 59 | 61 | 7 | 36 | 29.96 | 30.05 |
| | | | | | | **SUNRISE: 0434 JUN 18 SUNSET: 1932** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 62 | 53 | 57 | 73 | 5 | 34 | 29.96 | 30.05 |
| 04 | CLR | NC | | | 10.00 | | 62 | 54 | 58 | 75 | 0 | 00 | 29.98 | 30.06 |
| 07 | CLR | NC | | | 10.00 | | 69 | 55 | 61 | 61 | 8 | 35 | 30.04 | 30.13 |
| 10 | CLR | NC | | | 10.00 | | 79 | 51 | 63 | 38 | 7 | VR | 30.02 | 30.11 |
| 13 | CLR | NC | | | 10.00 | | 84 | 52 | 65 | 33 | 10 | 08 | 30.02 | 30.10 |
| 16 | CLR | NC | | | 10.00 | | 84 | 55 | 66 | 37 | 5 | VR | 29.98 | 30.07 |
| 19 | CLR | NC | | | 10.00 | | 76 | 63 | 68 | 64 | 10 | 18 | 29.98 | 30.06 |
| 22 | CLR | NC | | | 10.00 | | 69 | 61 | 64 | 76 | 3 | 17 | 30.01 | 30.10 |

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE Observation Time (LST) | SATELLITE Eff Cld Amt Oktas | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F DRY BULB | TEMPERATURE °F DEW POINT | TEMPERATURE °F WET BULB | RELATIVE HUMIDITY (PCT) | WIND SPEED (MPH) | WIND DIRECTION Tens of Deg | PRESSURE (INCHES, HG) STATION | PRESSURE (INCHES, HG) SEA LEVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **SUNRISE: 0435 JUN 19 SUNSET: 1933** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 67 | 62 | 64 | 84 | 0 | 00 | 30.01 | 30.10 |
| 04 | CLR | NC | | | 10.00 | | 64 | 60 | 62 | 87 | 5 | 17 | 30.01 | 30.09 |
| 07 | CLR | NC | | | 10.00 | | 69 | 63 | 65 | 81 | 5 | 17 | 30.02 | 30.11 |
| 10 | FEW | 029 | | | 10.00 | | 80 | 66 | 71 | 62 | 8 | 14 | 29.99 | 30.08 |
| 13 | BKN | 060 | | | 10.00 | | 84 | 67 | 73 | 57 | 13 | 16 | 29.98 | 30.05 |
| 16 | CLR | NC | | | 10.00 | | 83 | 68 | 73 | 61 | 16 | 17 | 29.91 | 29.99 |
| 19 | CLR | NC | | | 10.00 | | 79 | 70 | 73 | 74 | 10 | 17 | 29.88 | 29.96 |
| 22 | CLR | NC | | | 10.00 | | 74 | 70 | 71 | 87 | 3 | 17 | 29.88 | 29.96 |
| | | | | | | **SUNRISE: 0435 JUN 20 SUNSET: 1933** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 74 | 68 | 70 | 82 | 3 | 22 | 29.86 | 29.95 |
| 04 | CLR | NC | | | 10.00 | | 74 | 69 | 71 | 84 | 0 | 00 | 29.83 | 29.91 |
| 07 | FEW | 100 | | | 8.00 | | 78 | 72 | 74 | 82 | 7 | 27 | 29.85 | 29.92 |
| 10 | CLR | NC | | | 10.00 | | 87 | 70 | 75 | 57 | 9 | 28 | 29.83 | 29.91 |
| 13 | FEW | 065 | | | 10.00 | | 93 | 64 | 74 | 38 | 13 | 28 | 29.80 | 29.89 |
| 16 | FEW | 070 | | | 10.00 | | 93 | 59 | 71 | 32 | 14 | 29 | 29.80 | 29.87 |
| 19 | CLR | NC | | | 10.00 | | 86 | 61 | 70 | 43 | 7 | 29 | 29.80 | 29.89 |
| 22 | CLR | NC | | | 10.00 | | 79 | 61 | 68 | 54 | 6 | 27 | 29.88 | 29.95 |
| | | | | | | **SUNRISE: 0435 JUN 21 SUNSET: 1933** | | | | | | | | |
| 01 | FEW | 075 | | | 10.00 | | 73 | 62 | 66 | 69 | 7 | 33 | 29.88 | 29.95 |
| 04 | CLR | NC | | | 10.00 | | 69 | 62 | 65 | 79 | 6 | 34 | 29.88 | 29.97 |
| 07 | SCT | 060 | | | 10.00 | | 77 | 62 | | | 7 | 33 | | |
| 10 | CLR | NC | | | 10.00 | | 85 | 61 | | | 6 | 29 | | |
| 13 | FEW | 060 | | | 10.00 | | 89 | 59 | 70 | 36 | 11 | 33 | 29.94 | 30.03 |
| 16 | CLR | NC | | | 10.00 | | 90 | 59 | 70 | 35 | 3 | 32 | 29.94 | 30.02 |
| 19 | CLR | NC | | | 10.00 | | 85 | 60 | 69 | 43 | 7 | 28 | 29.96 | 30.05 |
| 22 | CLR | NC | | | 10.00 | | 78 | 62 | 68 | 58 | 3 | 33 | 29.99 | 30.07 |
| | | | | | | **SUNRISE: 0435 JUN 22 SUNSET: 1933** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 72 | 64 | 67 | 76 | 3 | 36 | 29.99 | 30.07 |
| 04 | CLR | NC | | | 10.00 | | 70 | 65 | 67 | 84 | 0 | 00 | 30.01 | 30.09 |
| 07 | CLR | NC | | | 10.00 | | 79 | 61 | 68 | 54 | 5 | 06 | 30.04 | 30.12 |
| 10 | CLR | NC | | | 10.00 | | 84 | 64 | 71 | 51 | 6 | 15 | 30.03 | 30.11 |
| 13 | SCT | 055 | | | 10.00 | | 88 | 66 | 73 | 48 | 11 | 15 | 29.98 | 30.06 |
| 16 | CLR | NC | | | 10.00 | | 86 | 69 | 74 | 57 | 17 | 16 | 29.93 | 30.00 |
| 19 | BKN | 050 | | | 4.00 | -TSRA | 75 | 69 | 71 | 82 | 6 | 17 | 29.93 | 30.01 |
| 22 | SCT | 090 | | | 7.00 | | 74 | 71 | 72 | 90 | 3 | 19 | 29.93 | 30.02 |
| | | | | | | **SUNRISE: 0435 JUN 23 SUNSET: 1934** | | | | | | | | |
| 01 | CLR | NC | | | 6.00 | BR | 71 | 69 | 70 | 93 | 3 | 22 | 29.91 | 29.99 |
| 04 | CLR | NC | | | 3.00 | BR | 71 | 70 | 70 | 97 | 0 | 00 | 29.91 | 29.98 |
| 07 | CLR | NC | | | 6.00 | HZ | 77 | 72 | 74 | 85 | 5 | 28 | 29.93 | 30.02 |
| 10 | CLR | NC | | | 10.00 | | 88 | 66 | 73 | 48 | 8 | 30 | 29.93 | 30.02 |
| 13 | CLR | NC | | | 10.00 | | 92 | 64 | 73 | 40 | 8 | 26 | 29.90 | 29.98 |
| 16 | CLR | NC | | | 10.00 | | 93 | 61 | 72 | 34 | 13 | 29 | 29.86 | 29.95 |
| 19 | CLR | NC | | | 10.00 | | 88 | 65 | 73 | 47 | 3 | 24 | 29.86 | 29.94 |
| 22 | CLR | NC | | | 10.00 | | 82 | 68 | 73 | 63 | 6 | 22 | 29.83 | 29.91 |
| | | | | | | **SUNRISE: 0436 JUN 24 SUNSET: 1934** | | | | | | | | |
| 01 | CLR | NC | | | 10.00 | | 81 | 71 | 74 | 72 | 7 | 27 | 29.83 | 29.90 |
| 04 | CLR | NC | | | 10.00 | | 79 | 70 | 73 | 74 | 5 | 22 | 29.80 | 29.87 |
| 07 | CLR | NC | | | 10.00 | | 83 | 68 | 73 | 61 | 7 | 23 | 29.77 | 29.85 |
| 10 | CLR | NC | | | 10.00 | | 91 | 70 | 76 | 50 | 11 | 26 | 29.75 | 29.83 |
| 13 | CLR | NC | | | 10.00 | | 97 | 65 | 75 | 35 | 14 | 29 | 29.70 | 29.79 |
| 16 | FEW | 060 | | | 10.00 | | 77 | 71 | 73 | 82 | 6 | 36 | 29.72 | 29.81 |
| 19 | CLR | NC | | | 10.00 | | 84 | 71 | 75 | 65 | 7 | 27 | 29.75 | 29.82 |
| 22 | CLR | NC | | | 10.00 | | 79 | 68 | 72 | 69 | 7 | 26 | 29.82 | 29.89 |

# OBSERVATIONS AT 3-HOURLY INTERVALS

# WILMINGTON, DE
**JUNE 2010** **KILG** **WBAN # 13781**

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE Observation Time (LST) | SATELLITE Eff Cld Amt Oktas | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F DRY BULB | TEMPERATURE °F DEW POINT | TEMPERATURE °F WET BULB | RELATIVE HUMIDITY (PCT) | WIND SPEED (MPH) | WIND DIRECTION Tens of Deg | PRESSURE (INCHES, HG) STATION | PRESSURE (INCHES, HG) SEA LEVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | |
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## 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, W = 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.**

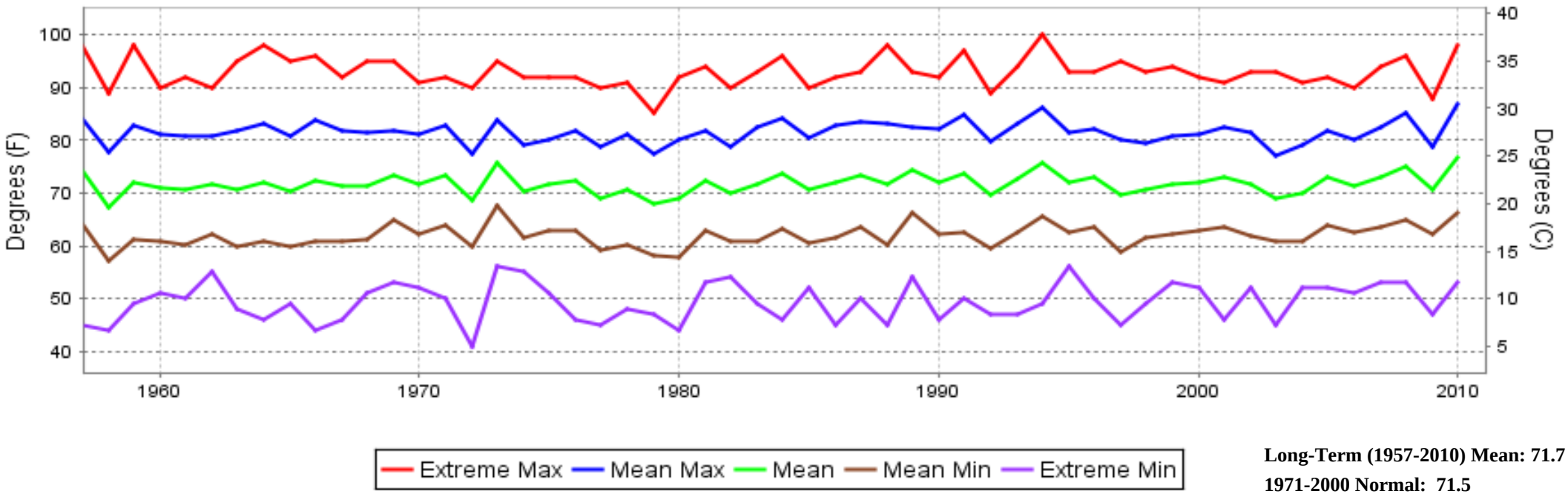
**& = Original observation containted additional weather elements.**
**See page 3 for additional notes.**

| HOUR (LST) | SKY COVER | CEILING 100's of FT. | SATELLITE Observation Time (LST) | SATELLITE Eff Cld Amt Oktas | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F DRY BULB | TEMPERATURE °F DEW POINT | TEMPERATURE °F WET BULB | RELATIVE HUMIDITY (PCT) | WIND SPEED (MPH) | WIND DIRECTION Tens of Deg | PRESSURE (INCHES, HG) STATION | PRESSURE (INCHES, HG) SEA LEVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **SUNRISE: 0436** | **JUN 25** | | **SUNSET: 1934** | | | | | |
| 01 | CLR | NC | | | 10.00 | | 72 | 66 | 68 | 82 | 8 | 32 | 29.83 | 29.91 |
| 04 | CLR | NC | | | 10.00 | | 72 | 64 | 67 | 76 | 7 | 36 | 29.88 | 29.96 |
| 07 | CLR | NC | | | 10.00 | | 76 | 63 | 68 | 64 | 7 | 35 | 29.94 | 30.03 |
| 10 | CLR | NC | | | 10.00 | | 82 | 62 | 69 | 51 | 5 | 35 | 29.96 | 30.04 |
| 13 | SCT | 055 | | | 10.00 | | 86 | 58 | 68 | 39 | 10 | 30 | 29.93 | 30.01 |
| 16 | CLR | NC | | | 10.00 | | 86 | 56 | 67 | 36 | 10 | 27 | 29.91 | 29.98 |
| 19 | CLR | NC | | | 10.00 | | 81 | 58 | 67 | 46 | 7 | 31 | 29.90 | 29.98 |
| 22 | CLR | NC | | | 10.00 | | 75 | 67 | 70 | 76 | 3 | 20 | 29.91 | 29.99 |
| | | | | | | **SUNRISE: 0436** | **JUN 26** | | **SUNSET: 1934** | | | | | |
| 01 | CLR | NC | | | 10.00 | | 71 | 65 | 67 | 81 | 0 | 00 | 29.90 | 29.98 |
| 04 | CLR | NC | | | 7.00 | | 68 | 64 | 66 | 87 | 0 | 00 | 29.88 | 29.96 |
| 07 | CLR | NC | | | 6.00 | HZ | 73 | 65 | 68 | 76 | 0 | 00 | 29.91 | 29.98 |
| 10 | CLR | NC | | | 9.00 | | 85 | 61 | 70 | 45 | 3 | VR | 29.88 | 29.95 |
| 13 | CLR | NC | | | 8.00 | | 89 | 59 | 70 | 36 | 16 | 25 | 29.83 | 29.91 |
| 16 | CLR | NC | | | 8.00 | | 89 | 61 | 71 | 39 | 9 | 26 | 29.78 | 29.85 |
| 19 | CLR | NC | | | 10.00 | | 83 | 71 | 75 | 67 | 8 | 16 | 29.75 | 29.83 |
| 22 | CLR | NC | | | 10.00 | | 80 | 74 | 76 | 82 | 3 | 19 | 29.77 | 29.84 |
| | | | | | | **SUNRISE: 0437** | **JUN 27** | | **SUNSET: 1934** | | | | | |
| 01 | CLR | NC | | | 9.00 | | 78 | 70 | 73 | 77 | 0 | 00 | 29.72 | 29.81 |
| 04 | CLR | NC | | | 5.00 | BR | 74 | 70 | 71 | 87 | 0 | 00 | 29.72 | 29.80 |
| 07 | FEW | 003 | | | 3.00 | BR | 78 | 74 | 75 | 88 | 3 | 28 | 29.72 | 29.79 |
| 10 | SCT | 050 | | | 10.00 | | 88 | 68 | 74 | 52 | 13 | 24 | 29.70 | 29.78 |
| 13 | CLR | NC | | | 9.00 | | 92 | 69 | 76 | 47 | 11 | 25 | 29.67 | 29.75 |
| 16 | FEW | 075 | | | 10.00 | | 95 | 67 | 76 | 40 | 10 | 26 | 29.62 | 29.70 |
| 19 | CLR | NC | | | 10.00 | | 92 | 67 | 75 | 44 | 6 | 22 | 29.62 | 29.69 |
| 22 | CLR | NC | | | 10.00 | | 85 | 70 | 75 | 61 | 3 | 19 | 29.61 | 29.68 |
| | | | | | | **SUNRISE: 0437** | **JUN 28** | | **SUNSET: 1934** | | | | | |
| 01 | CLR | NC | | | 10.00 | | 83 | 71 | 75 | 67 | 9 | 21 | 29.57 | 29.65 |
| 04 | CLR | NC | | | 10.00 | | 81 | 71 | 74 | 72 | 8 | 22 | 29.56 | 29.63 |
| 07 | CLR | NC | | | 10.00 | | 84 | 72 | 76 | 67 | 10 | 24 | 29.59 | 29.66 |
| 10 | CLR | NC | | | 10.00 | | 92 | 70 | 77 | 49 | 10 | 26 | 29.57 | 29.65 |
| 13 | FEW | 037 | | | 10.00 | | 91 | 69 | 76 | 49 | 11 | 22 | 29.57 | 29.64 |
| 16 | OVC | 085 | | | 10.00 | | 78 | 72 | 74 | 82 | 6 | 26 | 29.57 | 29.66 |
| 19 | CLR | NC | | | 10.00 | | 81 | 74 | 76 | 79 | 5 | 26 | 29.59 | 29.67 |
| 22 | CLR | NC | | | 10.00 | | 78 | 74 | 75 | 88 | 7 | 19 | 29.64 | 29.71 |
| | | | | | | **SUNRISE: 0437** | **JUN 29** | | **SUNSET: 1934** | | | | | |
| 01 | BKN | 120 | | | 10.00 | | 78 | 75 | 76 | 91 | 5 | 23 | 29.65 | 29.72 |
| 04 | CLR | NC | | | 10.00 | | 77 | 72 | 74 | 85 | 7 | 28 | 29.67 | 29.75 |
| 07 | FEW | 095 | | | 10.00 | | 79 | 67 | 71 | 67 | 9 | 31 | 29.73 | 29.81 |
| 10 | CLR | NC | | | 10.00 | | 86 | 64 | 72 | 48 | 11 | 28 | 29.77 | 29.84 |
| 13 | FEW | 065 | | | 10.00 | | 89 | 58 | 69 | 35 | 15 | 27 | 29.78 | 29.87 |
| 16 | CLR | NC | | | 10.00 | | 86 | 59 | 69 | 40 | 15 | 30 | 29.80 | 29.87 |
| 19 | CLR | NC | | | 10.00 | | 82 | 58 | 67 | 44 | 9 | 30 | 29.83 | 29.91 |
| 22 | FEW | 085 | | | 10.00 | | 72 | 58 | 64 | 62 | 7 | 33 | 29.88 | 29.97 |
| | | | | | | **SUNRISE: 0438** | **JUN 30** | | **SUNSET: 1934** | | | | | |
| 01 | FEW | 110 | | | 10.00 | | 71 | 51 | 60 | 49 | 10 | 34 | 29.93 | 30.01 |
| 04 | CLR | NC | | | 10.00 | | 63 | 46 | 54 | 54 | 8 | 01 | 29.99 | 30.08 |
| 07 | CLR | NC | | | 10.00 | | 66 | 45 | 55 | 47 | 10 | 36 | 30.03 | 30.12 |
| 10 | CLR | NC | | | 10.00 | | 73 | 42 | 57 | 33 | 8 | 35 | 30.04 | 30.13 |
| 13 | CLR | NC | | | 10.00 | | 74 | 43 | 57 | 33 | 6 | 26 | 30.03 | 30.11 |
| 16 | CLR | NC | | | 10.00 | | 79 | 43 | 59 | 28 | 14 | 31 | 29.99 | 30.08 |
| 19 | CLR | NC | | | 10.00 | | 74 | 46 | 59 | 37 | 8 | 31 | 29.99 | 30.08 |
| 22 | BKN | 085 | | | 10.00 | | 70 | 50 | 59 | 49 | 5 | 27 | 30.04 | 30.12 |

## SUMMARY BY HOUR

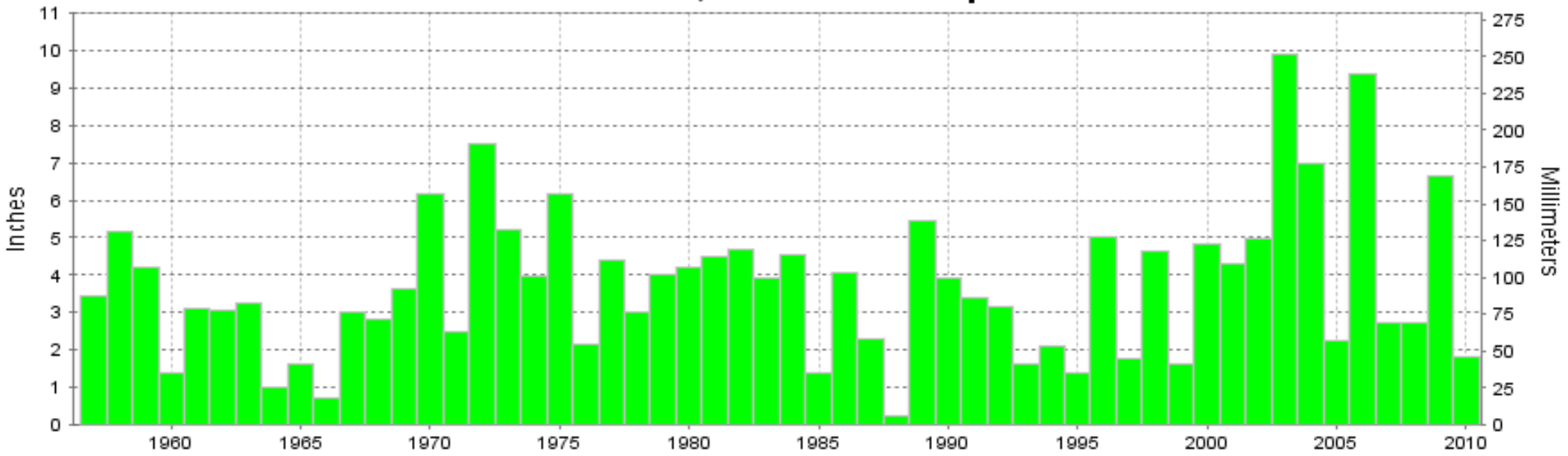
| HOUR (LST) | AVERAGES CEILOMETER | EFF CLD AMT | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY | PRESSURE (Inches, HG) STATION | PRESSURE (Inches, HG) SEA LEVEL | VISIBILITY (Miles) | WIND SPEED (MPH) | RESULTANT WIND (MPH) SPEED | RESULTANT WIND (MPH) DIRECTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | | 71 | 63 | 66 | 78 | 29.83 | 29.91 | 9.40 | 5 | 2 | 28 |
| 02 | | | 71 | 63 | 66 | 79 | 29.83 | 29.91 | 9.10 | 5 | 1 | 29 |
| 03 | | | 70 | 63 | 65 | 79 | 29.83 | 29.91 | 8.59 | 4 | 1 | 31 |
| 04 | | | 69 | 62 | 65 | 80 | 29.83 | 29.92 | 8.90 | 4 | 1 | 30 |
| 05 | | | 68 | 62 | 65 | 81 | 29.85 | 29.93 | 8.15 | 4 | 2 | 29 |
| 06 | | | 70 | 63 | 66 | 79 | 29.85 | 29.93 | 7.97 | 5 | 2 | 28 |
| 07 | | | 73 | 63 | 67 | 72 | 29.86 | 29.94 | 8.53 | 7 | 3 | 28 |
| 08 | | | 76 | 63 | 68 | 64 | 29.86 | 29.94 | 9.33 | 8 | 2 | 28 |
| 09 | | | 79 | 62 | 69 | 58 | 29.86 | 29.94 | 9.60 | 8 | 4 | 28 |
| 10 | | | 81 | 62 | 69 | 53 | 29.85 | 29.93 | 9.83 | 9 | 4 | 28 |
| 11 | | | 83 | 62 | 69 | 50 | 29.85 | 29.93 | 9.93 | 10 | 4 | 28 |
| 12 | | | 83 | 61 | 69 | 48 | 29.84 | 29.92 | 9.93 | 10 | 5 | 28 |
| 13 | | | 84 | 61 | 70 | 47 | 29.83 | 29.91 | 9.77 | 11 | 6 | 27 |
| 14 | | | 85 | 61 | 70 | 46 | 29.82 | 29.90 | 9.67 | 12 | 6 | 27 |
| 15 | | | 84 | 61 | 69 | 49 | 29.81 | 29.89 | 9.63 | 12 | 5 | 27 |
| 16 | | | 83 | 61 | 69 | 50 | 29.81 | 29.89 | 9.93 | 11 | 6 | 28 |
| 17 | | | 83 | 61 | 69 | 51 | 29.80 | 29.88 | 9.93 | 11 | 5 | 28 |
| 18 | | | 81 | 62 | 69 | 55 | 29.80 | 29.89 | 9.69 | 10 | 4 | 28 |
| 19 | | | 79 | 63 | 69 | 59 | 29.81 | 29.89 | 9.73 | 8 | 3 | 28 |
| 20 | | | 77 | 63 | 68 | 64 | 29.82 | 29.90 | 9.87 | 7 | 2 | 28 |
| 21 | | | 76 | 63 | 68 | 67 | 29.83 | 29.91 | 9.80 | 7 | 2 | 29 |
| 22 | | | 74 | 63 | 67 | 71 | 29.84 | 29.92 | 9.73 | 5 | 1 | 29 |
| 23 | | | 72 | 63 | 67 | 74 | 29.84 | 29.92 | 9.63 | 5 | 2 | 29 |
| 24 | | | 71 | 63 | 66 | 76 | 29.84 | 29.92 | 9.50 | 5 | 1 | 29 |

# WILMINGTON, DE JUNE Temperatures




**Long-Term (1957-2010) Mean: 71.7**
**1971-2000 Normal: 71.5**

# WILMINGTON, DE JUNE Precipitation




**Long-Term (1957-2010) Mean Monthly Total: 3.74** **1971-2000 Normal: 3.59**

**Published By: National Climatic Data Center**

**JUNE 2010**
**WILMINGTON, DE**

# LOCAL CLIMATOLOGICAL DATA

## NOAA, National Climatic Data Center

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