

2002

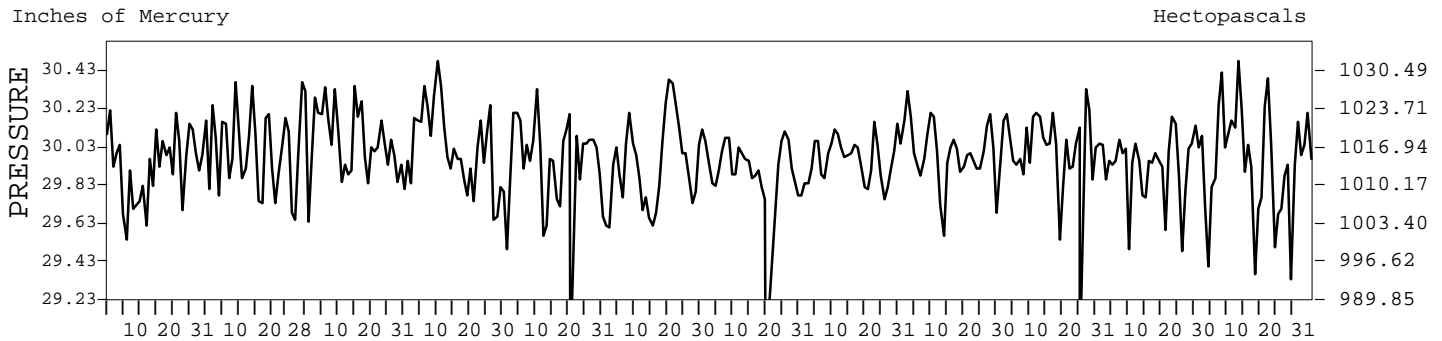
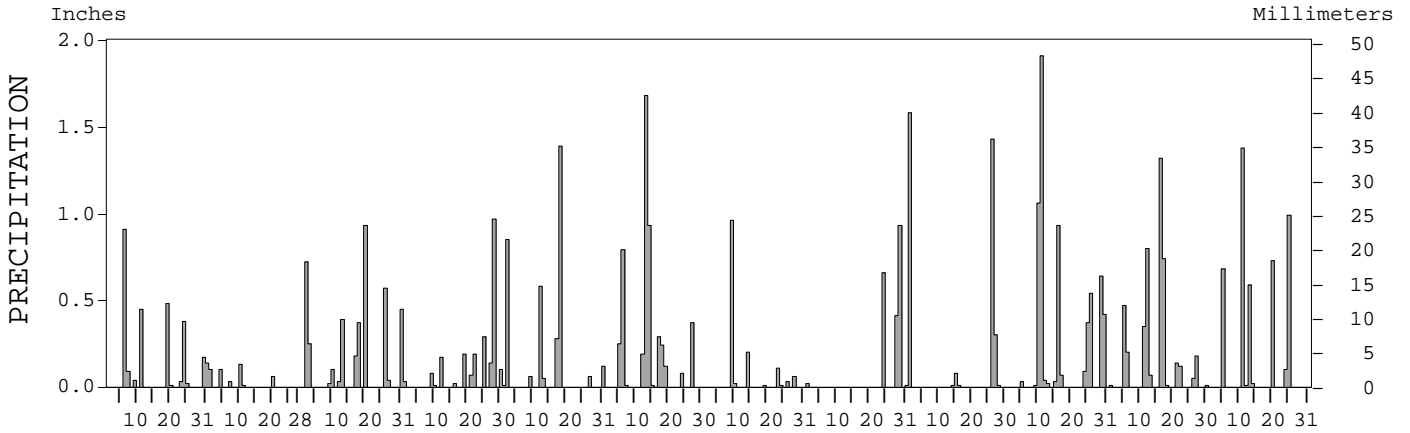
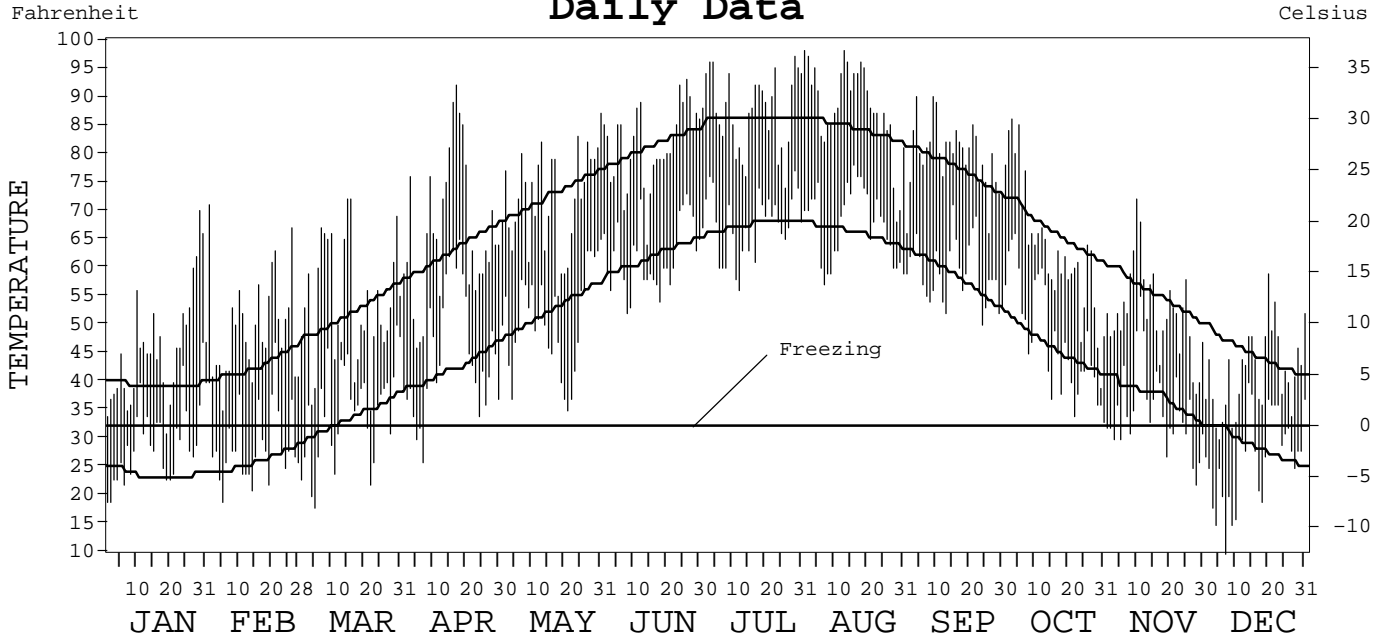
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1145

WILMINGTON,
DELAWARE (ILG)

Daily Data



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Thomas R. Karl

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| NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE | NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA | DIRECTOR NATIONAL CLIMATIC DATA CENTER |
|---|---|---|---|

METEOROLOGICAL DATA FOR 2002

WILMINGTON, DE (ILG)

LATITUDE: 39° 40' 22" N LONGITUDE: 75° 36' 03" W ELEVATION (FT): GRND: 92 BARO: 95 TIME ZONE: EASTERN (UTC + 5) WBAN: 13781

| | ELEMENT | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|--------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 45.9 | 49.6 | 53.9 | 66.4 | 72.1 | 81.5 | 87.5 | 87.9 | 79.5 | 63.3 | 52.2 | 41.6 | 65.1 | |
| | HIGHEST DAILY MAXIMUM | 70 | 71 | 72 | 92 | 87 | 93 | 97 | 98 | 90 | 86 | 72 | 59 | 98 | |
| | DATE OF OCCURRENCE | 29 | 01 | 16+ | 17 | 31 | 26 | 29 | 13+ | 09+ | 03 | 10 | 20 | AUG 13+ | |
| | MEAN DAILY MINIMUM | 29.6 | 29.2 | 34.7 | 44.9 | 50.7 | 62.0 | 67.5 | 67.6 | 59.1 | 47.6 | 35.0 | 26.9 | 46.2 | |
| | LOWEST DAILY MINIMUM | 19 | 19 | 18 | 26 | 35 | 52 | 56 | 57 | 50 | 33 | 22 | 10 | 10 | |
| | DATE OF OCCURRENCE | 02+ | 05 | 05 | 07 | 21 | 08 | 12 | 07 | 24 | 31 | 28 | 07 | DEC 07 | |
| | AVERAGE DRY BULB | 37.8 | 39.4 | 44.3 | 55.7 | 61.4 | 71.8 | 77.5 | 77.8 | 69.3 | 55.5 | 43.6 | 34.3 | 55.7 | |
| | MEAN WET BULB | | | 41.0 | 49.8 | | 65.9 | 68.7 | 69.0 | 64.2 | 51.8 | 39.8 | 30.7 | | |
| | MEAN DEW POINT | | | 35.6 | 43.3 | | 62.1 | 63.5 | 64.2 | 60.7 | 47.9 | 33.2 | 23.4 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 1 | 0 | 3 | 13 | 14 | 2 | 0 | 0 | 0 | 0 | 33 |
| | MAXIMUM ≤ 32° | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 4 |
| | MINIMUM ≤ 32° | 21 | 21 | 12 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 24 | 94 | 94 |
| MINIMUM ≤ 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| H/C | HEATING DEGREE DAYS | 836 | 712 | 633 | 324 | 159 | 7 | 0 | 1 | 11 | 325 | 636 | 945 | 4589 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 51 | 53 | 219 | 397 | 405 | 147 | 39 | 0 | 0 | 1311 | |
| RH | MEAN (PERCENT) | 74 | 66 | 74 | 65 | 70 | 74 | 64 | 67 | 76 | 77 | 67 | 65 | 70 | |
| | HOUR 01 LST | 80 | 75 | 79 | 77 | 82 | 87 | 77 | 79 | 88 | 85 | 76 | 70 | 80 | |
| | HOUR 07 LST | 82 | 80 | 83 | 76 | 80 | 83 | 75 | 78 | 88 | 88 | 80 | 72 | 80 | |
| | HOUR 13 LST | 62 | 52 | 63 | 51 | 55 | 59 | 50 | 49 | 60 | 62 | 54 | 57 | 56 | |
| | HOUR 19 LST | 71 | 63 | 72 | 63 | 64 | 67 | 57 | 65 | 75 | 77 | 61 | 64 | 67 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 2 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 8 | |
| | THUNDERSTORMS | 0 | 0 | 1 | 3 | 6 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 21 | |
| CLOUDINESS | SUNRISE-SUNSET: (OKTAS) | | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | | |
| | SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | | |
| | MIDNIGHT-MIDNIGHT: (OKTAS) | | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | | |
| SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| CLEAR | | | | | | | | | | | | | | | |
| PARTLY CLOUDY | | | | | | | | | | | | | | | |
| CLOUDY | | | | | | | | | | | | | | | |
| PR | MEAN STATION PRESS. (IN.) | 29.93 | 29.99 | 30.06 | 30.02 | | 29.93 | | 29.98 | 29.98 | | 29.90 | 29.97 | | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.02 | 30.08 | 30.15 | 30.10 | | 30.02 | | 30.06 | 30.07 | | 29.99 | 30.05 | | |
| WINDS | RESULTANT SPEED (MPH) | 4.2 | 5.2 | 2.2 | 2.6 | | 0.8 | 0.5 | 0.5 | 0.7 | 3.1 | 3.4 | 4.9 | | |
| | RES. DIR. (TENS OF DEGS.) | 27 | 27 | 26 | 26 | | 27 | 26 | 07 | 35 | 36 | 27 | 29 | | |
| | MEAN SPEED (MPH) | 8.2 | 10.2 | 10.6 | 9.8 | 9.2 | 7.6 | 8.0 | 7.9 | 8.0 | 8.4 | 8.8 | 9.2 | 8.8 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 30 | 30 | 30 | 30 | 15 | 22 | 23 | 16 | 32 | 02 | 28 | 29 | 30 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 37 | 39 | 38 | 39 | 33 | 32 | 41 | 30 | 35 | 25 | 35 | 35 | 41 | |
| | DIR. (TENS OF DEGS.) | 28 | 28 | 15 | 31 | 28 | 29 | 31 | 31 | 32 | 33 | 30 | 29 | 31 | |
| | DATE OF OCCURRENCE | 13 | 01 | 03 | 03 | 14+ | 27 | 09 | 01 | 11 | 16 | 06 | 16 | JUL 09 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 47 | 48 | 45 | 47 | 43 | 38 | 48 | 36 | 44 | 32 | 44 | 45 | 48 | |
| DIR. (TENS OF DEGS.) | 27 | 29 | 28 | 29 | 27 | 30 | 30 | 33 | 31 | 33 | 31 | 29 | 30 | | |
| DATE OF OCCURRENCE | 13 | 01 | 21+ | 03 | 13 | 27 | 09 | 01 | 11 | 16 | 06 | 25 | JUL 09 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.72 | 0.43 | 4.05 | 2.26 | 3.40 | 4.96 | 1.40 | 2.03 | 3.42 | 6.16 | 4.47 | 4.50 | 39.80 | |
| | GREATEST 24-HOUR (IN.) | 0.99 | 0.14 | 0.96 | 1.11 | 1.67 | 2.61 | 0.98 | 1.34 | 1.58 | 2.52 | 1.54 | 1.39 | 2.61 | |
| | DATE OF OCCURRENCE | 06-07 | 10-11 | 02-03 | 27-28 | 17-18 | 13-14 | 09-10 | 28-29 | 01 | 10-11 | 16-17 | 11-12 | JUN 13-14 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 11 | 6 | 12 | 12 | 9 | 12 | 8 | 5 | 7 | 14 | 14 | 8 | 118 | |
| PRECIPITATION ≥ 0.10 | 6 | 3 | 9 | 7 | 5 | 9 | 3 | 3 | 3 | 7 | 9 | 6 | 70 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 1 | 1 | 8 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.4 | T | T | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 9.0 | 11.4 | |
| | GREATEST 24-HOUR (IN.) | 2.3 | T | T | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 6.8 | 6.8 | |
| | DATE OF OCCURRENCE | 19 | 27+ | 21+ | 06 | | | | | | 30+ | 27 | 05 | DEC 05 | |
| | MAXIMUM SNOW DEPTH (IN.) | | | | | | | | | | | | | | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | | |

NORMALS, MEANS, AND EXTREMES

WILMINGTON, DE (ILG)

LATITUDE: 39° 40' 22" N LONGITUDE: 75° 36' 03" W ELEVATION (FT): GRND: 92 BARO: 95 TIME ZONE: EASTERN (UTC + 5) WBAN: 13781

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 39.3 | 42.5 | 51.9 | 62.6 | 72.5 | 81.1 | 86.0 | 84.1 | 77.2 | 65.9 | 55.0 | 44.4 | 63.5 |
| | MEAN DAILY MAXIMUM | 46 | 39.4 | 42.6 | 51.5 | 63.1 | 72.8 | 81.5 | 85.5 | 84.2 | 77.6 | 66.2 | 55.3 | 44.0 | 63.6 |
| | HIGHEST DAILY MAXIMUM | 55 | 75 | 78 | 86 | 94 | 96 | 100 | 102 | 101 | 100 | 91 | 85 | 75 | 102 |
| | YEAR OF OCCURRENCE | | 1950 | 1985 | 1998 | 1985 | 1996 | 1994 | 1966 | 1955 | 1983 | 1951 | 1950 | 1998 | JUL 1966 |
| | MEAN OF EXTREME MAXS. | 55 | 60.0 | 62.6 | 73.0 | 82.1 | 88.4 | 93.3 | 95.4 | 93.6 | 90.0 | 81.9 | 72.6 | 63.8 | 79.7 |
| | NORMAL DAILY MINIMUM | 30 | 23.7 | 25.8 | 33.4 | 42.1 | 52.4 | 61.8 | 67.3 | 65.8 | 58.1 | 45.6 | 36.9 | 28.4 | 45.1 |
| | MEAN DAILY MINIMUM | 46 | 23.3 | 25.5 | 32.9 | 42.1 | 52.2 | 61.6 | 66.9 | 65.6 | 57.9 | 45.6 | 36.9 | 27.8 | 44.9 |
| | LOWEST DAILY MINIMUM | 55 | -14 | -6 | 2 | 18 | 30 | 41 | 48 | 43 | 36 | 24 | 14 | -7 | -14 |
| | YEAR OF OCCURRENCE | | 1985 | 1979 | 1984 | 1982 | 1978 | 1972 | 1988 | 1982 | 1974 | 1976 | 1955 | 1983 | JAN 1985 |
| | MEAN OF EXTREME MINS. | 55 | 7.2 | 9.6 | 18.0 | 28.7 | 38.4 | 49.0 | 55.7 | 53.5 | 42.6 | 31.8 | 22.3 | 12.5 | 30.8 |
| | NORMAL DRY BULB | 30 | 30.6 | 33.4 | 42.7 | 52.2 | 62.5 | 71.5 | 76.4 | 75.0 | 68.0 | 56.2 | 46.3 | 35.8 | 54.2 |
| | MEAN DRY BULB | 55 | 32.1 | 34.2 | 42.2 | 52.7 | 62.4 | 71.5 | 76.3 | 74.8 | 67.6 | 56.4 | 46.0 | 36.0 | 54.4 |
| | MEAN WET BULB | 49 | 29.0 | 30.5 | 37.3 | 46.2 | 55.7 | 64.2 | 68.7 | 67.8 | 61.7 | 51.3 | 41.5 | 32.6 | 48.9 |
| | MEAN DEW POINT | 49 | 22.2 | 23.3 | 29.3 | 38.8 | 50.2 | 60.0 | 64.6 | 64.2 | 57.8 | 47.3 | 35.7 | 26.3 | 43.3 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 30 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 3.3 | 7.6 | 4.9 | 1.9 | 0.0 | 0.0 | 0.0 | 18.6 |
| MAXIMUM ≤ 32° | 30 | 8.8 | 5.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 3.9 | 18.4 | |
| MINIMUM ≤ 32° | 30 | 26.0 | 22.0 | 14.5 | 3.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 9.6 | 22.2 | 99.6 | |
| MINIMUM ≤ 0° | 30 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1029 | 864 | 687 | 376 | 132 | 15 | 1 | 2 | 49 | 297 | 564 | 872 | 4888 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 2 | 9 | 62 | 215 | 368 | 317 | 135 | 16 | 1 | 0 | 1125 |
| RH | NORMAL (PERCENT) | 30 | 68 | 65 | 62 | 62 | 67 | 68 | 70 | 72 | 72 | 71 | 69 | 69 | 68 |
| | HOUR 01 LST | 30 | 72 | 71 | 70 | 71 | 77 | 80 | 81 | 83 | 83 | 81 | 76 | 74 | 77 |
| | HOUR 07 LST | 30 | 74 | 74 | 73 | 72 | 75 | 77 | 79 | 83 | 84 | 84 | 80 | 76 | 78 |
| | HOUR 13 LST | 30 | 59 | 56 | 51 | 49 | 53 | 54 | 54 | 56 | 56 | 54 | 56 | 59 | 55 |
| | HOUR 19 LST | 30 | 66 | 63 | 60 | 57 | 62 | 63 | 64 | 68 | 70 | 69 | 68 | 68 | 65 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY≤1/4 MI) | 55 | 4.2 | 3.5 | 2.7 | 2.1 | 2.2 | 1.7 | 1.6 | 2.3 | 2.4 | 3.7 | 3.3 | 3.4 | 33.1 |
| | THUNDERSTORMS | 55 | 0.2 | 0.3 | 1.1 | 2.3 | 3.8 | 5.5 | 6.0 | 5.3 | 2.4 | 0.9 | 0.6 | 0.2 | 28.6 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 1 | | 6.0 | | | | 5.0 | | | | | | | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | | | | | | | | | | | | | | |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 1 | 2.0 | 2.0 | 6.0 | | 8.0 | 9.0 | 3.0 | 7.0 | 5.0 | 9.0 | | 5.0 | |
| | PARTLY CLOUDY | 1 | 1.0 | 1.0 | 6.0 | | 4.0 | 5.0 | 1.0 | 4.0 | 3.0 | 2.0 | | 2.0 | |
| | CLOUDY | 1 | 4.0 | 5.0 | 11.0 | | 6.0 | 8.0 | | 2.0 | 7.0 | 3.0 | | 8.0 | |
| PR | MEAN STATION PRESSURE(IN) | 30 | 30.00 | 29.99 | 29.94 | 29.90 | 29.90 | 29.90 | 29.92 | 29.96 | 29.99 | 30.02 | 30.02 | 30.01 | 29.96 |
| | MEAN SEA-LEVEL PRES. (IN) | 50 | 30.08 | 30.07 | 30.02 | 29.99 | 30.00 | 29.98 | 30.00 | 30.02 | 30.08 | 30.10 | 30.07 | 30.10 | 30.04 |
| WINDS | MEAN SPEED (MPH) | 43 | 9.8 | 10.1 | 11.0 | 10.4 | 8.8 | 8.2 | 7.7 | 7.3 | 7.7 | 8.0 | 9.0 | 9.1 | 8.9 |
| | PREVAIL.DIR(TENS OF DEGS) | 27 | 30 | 30 | 30 | 30 | 30 | 18 | 30 | 18 | 32 | 31 | 30 | 30 | 30 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 8 | 51 | 43 | 45 | 46 | 48 | 41 | 45 | 40 | 39 | 36 | 44 | 43 | 51 |
| | DIR. (TENS OF DEGS) | | 15 | 29 | 28 | 33 | 24 | 27 | 32 | 14 | 35 | 29 | 14 | 27 | 15 |
| | YEAR OF OCCURRENCE | | 1999 | 1996 | 1996 | 1995 | 1999 | 1998 | 1995 | 1997 | 2001 | 1995 | 1999 | 2000 | JAN 1999 |
| MAXIMUM 5-SECOND: | | | | | | | | | | | | | | | |
| SPEED (MPH) | 8 | 61 | 54 | 56 | 53 | 61 | 52 | 55 | 53 | 52 | 46 | 57 | 53 | 61 | |
| DIR. (TENS OF DEGS) | | 23 | 29 | 27 | 33 | 23 | 27 | 32 | 15 | 36 | 26 | 13 | 28 | 23 | |
| YEAR OF OCCURRENCE | | 1999 | 1996 | 1996 | 1995 | 1999 | 1998 | 1995 | 1997 | 2001 | 1999 | 1999 | 2000 | MAY 1999 | |
| PRECIPITATION | NORMAL (IN) | 30 | 3.43 | 2.81 | 3.97 | 3.39 | 4.15 | 3.59 | 4.28 | 3.51 | 4.01 | 3.08 | 3.19 | 3.40 | 42.81 |
| | MAXIMUM MONTHLY (IN) | 55 | 8.41 | 7.02 | 9.17 | 6.80 | 7.38 | 7.49 | 12.63 | 12.09 | 12.68 | 8.01 | 7.84 | 7.96 | 12.68 |
| | YEAR OF OCCURRENCE | | 1978 | 1979 | 2000 | 1983 | 1983 | 1972 | 1989 | 1955 | 1999 | 1995 | 1972 | 1996 | SEP 1999 |
| | MINIMUM MONTHLY (IN) | 55 | 0.52 | 0.43 | 0.81 | 0.35 | 0.22 | 0.21 | 0.16 | 0.25 | 0.82 | 0.08 | 0.49 | 0.19 | 0.08 |
| | YEAR OF OCCURRENCE | | 1981 | 2002 | 1966 | 1985 | 1964 | 1988 | 1955 | 1972 | 1970 | 2000 | 1976 | 1955 | OCT 2000 |
| | MAXIMUM IN 24 HOURS (IN) | 55 | 2.53 | 2.29 | 4.87 | 2.56 | 2.72 | 4.35 | 6.83 | 4.11 | 8.43 | 3.88 | 3.83 | 2.33 | 8.43 |
| | YEAR OF OCCURRENCE | | 1998 | 1966 | 2000 | 1961 | 1990 | 1972 | 1989 | 1971 | 1999 | 1966 | 1956 | 1996 | SEP 1999 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 10.3 | 9.5 | 9.9 | 10.6 | 11.2 | 9.8 | 9.1 | 8.8 | 7.8 | 7.3 | 9.4 | 9.8 | 113.5 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.7 | 0.6 | 1.0 | 0.7 | 0.9 | 0.8 | 1.2 | 0.9 | 1.1 | 0.7 | 0.8 | 1.0 | 10.4 | |
| SNOWFALL | NORMAL (IN) | 30 | 7.5 | 6.3 | 2.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 1.9 | 18.9 | |
| | MAXIMUM MONTHLY (IN) | 51 | 26.2 | 27.5 | 20.3 | 2.6 | T | T | T | 0.0 | 0.0 | 2.5 | 11.9 | 21.5 | 27.5 |
| | YEAR OF OCCURRENCE | | 1996 | 1979 | 1958 | 1982 | 1991 | 1992 | 1990 | | 1979 | 1953 | 1966 | FEB 1979 | |
| | MAXIMUM IN 24 HOURS (IN) | 51 | 22.0 | 16.5 | 15.6 | 2.4 | T | T | 0.0 | 0.0 | 2.5 | 11.9 | 12.4 | 22.0 | |
| | YEAR OF OCCURRENCE | | 1996 | 1979 | 1958 | 1987 | 1991 | 1992 | 1990 | | 1979 | 1953 | 1966 | JAN 1996 | |
| | MAXIMUM SNOW DEPTH (IN) | 46 | 13 | 20 | 8 | 2 | 0 | 0 | 0 | 0 | T | 9 | 12 | 20 | |
| YEAR OF OCCURRENCE | | 1987 | 1979 | 1956 | 1987 | | | | | 1962 | 1953 | 1966 | FEB 1979 | | |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 2.2 | 1.4 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 5.2 | |

PRECIPITATION (inches) 2002 WILMINGTON, DE (ILG)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|-------|------|-------|------|------|------|--------|
| 1973 | 3.81 | 3.42 | 4.02 | 6.57 | 5.56 | 5.19 | 2.82 | 2.44 | 3.02 | 2.22 | 0.67 | 7.31 | 47.05 |
| 1974 | 2.92 | 1.73 | 4.56 | 3.08 | 3.96 | 3.97 | 1.49 | 5.11 | 5.65 | 1.77 | 1.19 | 4.18 | 39.61 |
| 1975 | 4.23 | 2.95 | 4.63 | 3.03 | 5.65 | 6.16 | 5.53 | 2.55 | 6.19 | 3.06 | 2.63 | 3.00 | 49.61 |
| 1976 | 4.21 | 1.70 | 2.25 | 1.40 | 5.05 | 2.14 | 4.33 | 2.00 | 2.11 | 6.12 | 0.49 | 1.79 | 33.59 |
| 1977 | 2.18 | 1.09 | 4.55 | 3.91 | 0.96 | 4.41 | 1.38 | 4.82 | 1.29 | 3.59 | 6.14 | 5.81 | 40.13 |
| 1978 | 8.41 | 1.77 | 5.59 | 2.16 | 6.94 | 3.00 | 5.53 | 5.97 | 2.18 | 1.48 | 2.69 | 5.56 | 51.28 |
| 1979 | 7.61 | 7.02 | 2.61 | 4.03 | 3.10 | 4.01 | 4.76 | 6.11 | 5.94 | 3.45 | 3.23 | 1.44 | 53.31 |
| 1980 | 2.44 | 0.83 | 6.22 | 4.55 | 2.40 | 4.23 | 3.49 | 1.09 | 1.44 | 3.99 | 2.41 | 0.83 | 33.92 |
| 1981 | 0.52 | 3.23 | 1.26 | 3.54 | 5.05 | 4.50 | 2.52 | 3.38 | 3.82 | 2.84 | 0.67 | 3.95 | 35.28 |
| 1982 | 3.75 | 2.71 | 2.87 | 5.41 | 3.72 | 4.70 | 2.70 | 4.68 | 2.30 | 1.97 | 3.87 | 2.39 | 41.07 |
| 1983 | 2.98 | 3.55 | 6.84 | 6.80 | 7.38 | 3.94 | 2.33 | 1.29 | 3.44 | 3.87 | 5.48 | 6.80 | 54.70 |
| 1984 | 1.25 | 4.27 | 5.40 | 4.24 | 5.03 | 4.54 | 6.53 | 1.56 | 2.02 | 3.31 | 1.63 | 1.94 | 41.72 |
| 1985 | 1.56 | 2.05 | 2.03 | 0.35 | 5.52 | 1.37 | 6.91 | 2.28 | 4.56 | 1.84 | 4.46 | 0.80 | 33.73 |
| 1986 | 4.21 | 2.77 | 1.19 | 2.77 | 1.69 | 4.05 | 3.99 | 2.88 | 2.75 | 4.04 | 6.42 | 6.11 | 42.87 |
| 1987 | 4.35 | 1.52 | 1.16 | 2.63 | 3.15 | 2.31 | 4.09 | 4.21 | 4.85 | 2.31 | 3.50 | 1.90 | 35.98 |
| 1988 | 2.46 | 4.14 | 1.82 | 2.59 | 4.95 | 0.21 | 8.29 | 3.03 | 2.18 | 1.94 | 5.29 | 0.90 | 37.80 |
| 1989 | 2.48 | 2.75 | 3.69 | 2.76 | 6.57 | 5.43 | 12.63 | 1.97 | 4.31 | 3.92 | 1.99 | 1.27 | 49.77 |
| 1990 | 3.56 | 1.35 | 2.15 | 3.42 | 7.03 | 3.94 | 4.27 | 6.15 | 2.64 | 2.85 | 1.61 | 5.16 | 44.13 |
| 1991 | 4.30 | 0.97 | 4.64 | 3.28 | 1.98 | 3.41 | 3.71 | 5.38 | 5.36 | 1.27 | 1.26 | 4.26 | 39.82 |
| 1992 | 1.05 | 1.81 | 4.36 | 1.76 | 4.48 | 3.14 | 4.34 | 2.21 | 4.30 | 1.11 | 4.27 | 4.21 | 37.04 |
| 1993 | 2.64 | 3.11 | 7.50 | 5.87 | 3.95 | 1.60 | 4.04 | 2.65 | 6.26 | 2.77 | 2.85 | 3.51 | 46.75 |
| 1994 | 5.00 | 3.55 | 7.36 | 2.85 | 3.69 | 2.11 | 7.01 | 5.68 | 2.10 | 0.85 | 2.96 | 2.24 | 45.40 |
| 1995 | 3.08 | 2.28 | 2.47 | 2.10 | 3.50 | 1.26 | 2.89 | 2.03 | 5.17 | 8.01 | 4.31 | 2.17 | 39.27 |
| 1996 | 4.58 | 1.19 | 3.63 | 4.98 | 3.27 | 5.00 | 6.25 | 3.04 | 4.05 | 4.70 | 3.25 | 7.96 | 51.90 |
| 1997 | 1.83 | 1.83 | 3.49 | 1.49 | 0.82 | 1.75 | 3.08 | 3.66 | 1.93 | 2.33 | 3.24 | 2.57 | 28.02 |
| 1998 | 4.80 | 2.95 | 4.86 | 2.91 | 4.13 | 4.66 | 2.18 | 3.14 | 1.76 | 2.80 | 1.26 | 1.01 | 36.46 |
| 1999 | 5.41 | 3.51 | 3.96 | 3.36 | 3.56 | 1.62 | 0.89 | 4.24 | 12.68 | 3.42 | 2.09 | 2.94 | 47.68 |
| 2000 | 3.83 | 2.00 | 9.17 | 3.43 | 2.94 | 4.83 | 4.64 | 2.47 | 7.30 | 0.08 | 2.54 | 2.80 | 46.03 |
| 2001 | 3.13 | 2.81 | 5.62 | 1.43 | 5.33 | 4.28 | 2.35 | 2.65 | 2.57 | 0.74 | 0.99 | 1.95 | 33.85 |
| 2002 | 2.72 | 0.43 | 4.05 | 2.26 | 3.40 | 4.96 | 1.40 | 2.03 | 3.42 | 6.16 | 4.47 | 4.50 | 39.80 |
| POR= 109 YRS | 3.34 | 2.99 | 3.82 | 3.45 | 3.67 | 3.72 | 4.48 | 4.42 | 3.72 | 3.02 | 3.21 | 3.43 | 43.27 |

WBAN : 13781

AVERAGE TEMPERATURE (°F) 2002 WILMINGTON, DE (ILG)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1973 | 35.6 | 35.5 | 49.4 | 54.7 | 61.4 | 75.8 | 78.1 | 78.1 | 70.4 | 59.9 | 49.1 | 37.7 | 57.1 |
| 1974 | 36.2 | 33.1 | 44.3 | 55.5 | 62.4 | 70.4 | 76.7 | 76.1 | 66.5 | 53.2 | 46.6 | 38.9 | 55.0 |
| 1975 | 37.5 | 35.9 | 40.6 | 47.5 | 65.2 | 71.5 | 75.7 | 76.3 | 65.4 | 60.0 | 51.0 | 36.2 | 55.2 |
| 1976 | 27.7 | 41.2 | 46.5 | 54.7 | 59.9 | 72.4 | 74.2 | 73.7 | 66.9 | 52.5 | 40.4 | 31.0 | 53.4 |
| 1977 | 20.8 | 33.3 | 47.2 | 54.4 | 63.9 | 68.9 | 76.4 | 75.4 | 69.3 | 53.4 | 46.6 | 33.4 | 53.6 |
| 1978 | 27.2 | 22.8 | 37.6 | 50.3 | 60.3 | 70.6 | 73.4 | 77.1 | 66.7 | 54.1 | 46.8 | 37.2 | 52.0 |
| 1979 | 31.4 | 22.1 | 45.4 | 50.6 | 63.8 | 67.9 | 75.3 | 75.0 | 68.2 | 55.0 | 49.6 | 38.1 | 53.5 |
| 1980 | 32.4 | 29.9 | 40.0 | 54.6 | 64.9 | 68.9 | 77.7 | 78.2 | 71.3 | 54.8 | 43.3 | 33.1 | 54.1 |
| 1981 | 25.4 | 37.9 | 40.2 | 55.0 | 62.5 | 72.3 | 77.1 | 73.5 | 66.9 | 53.0 | 45.3 | 34.2 | 53.6 |
| 1982 | 24.2 | 34.2 | 41.8 | 50.6 | 65.0 | 69.9 | 77.3 | 72.0 | 67.4 | 56.0 | 47.5 | 41.3 | 53.9 |
| 1983 | 35.2 | 35.3 | 45.9 | 53.1 | 61.0 | 71.8 | 77.6 | 77.0 | 69.3 | 56.9 | 46.7 | 32.1 | 55.2 |
| 1984 | 24.8 | 38.6 | 35.6 | 50.7 | 61.2 | 73.8 | 75.2 | 75.2 | 63.7 | 61.2 | 43.3 | 42.1 | 53.8 |
| 1985 | 27.5 | 37.4 | 47.1 | 58.0 | 65.9 | 70.6 | 76.6 | 74.4 | 69.1 | 58.3 | 51.0 | 32.9 | 55.7 |
| 1986 | 32.2 | 31.6 | 43.6 | 52.4 | 65.7 | 72.1 | 77.1 | 72.5 | 67.5 | 57.2 | 44.1 | 37.3 | 54.4 |
| 1987 | 31.4 | 31.9 | 44.6 | 52.3 | 63.1 | 73.5 | 79.1 | 74.3 | 68.3 | 51.7 | 47.4 | 38.6 | 54.7 |
| 1988 | 27.4 | 34.8 | 44.2 | 50.8 | 62.9 | 71.6 | 79.4 | 77.3 | 65.8 | 51.0 | 46.7 | 35.1 | 53.9 |
| 1989 | 36.0 | 34.3 | 42.1 | 51.6 | 62.1 | 74.3 | 75.9 | 74.4 | 68.4 | 57.6 | 44.6 | 25.0 | 53.9 |
| 1990 | 40.5 | 41.1 | 46.0 | 53.7 | 61.5 | 72.1 | 77.4 | 74.6 | 66.7 | 60.0 | 48.4 | 41.0 | 56.9 |
| 1991 | 34.3 | 39.7 | 44.9 | 54.7 | 69.1 | 73.6 | 77.3 | 76.7 | 67.2 | 57.6 | 46.8 | 39.5 | 56.8 |
| 1992 | 35.2 | 37.2 | 41.5 | 52.0 | 60.7 | 69.6 | 76.3 | 72.2 | 67.3 | 53.2 | 47.2 | 38.3 | 54.2 |
| 1993 | 37.6 | 31.0 | 39.0 | 52.8 | 65.3 | 72.8 | 79.4 | 77.8 | 68.7 | 55.7 | 47.4 | 36.4 | 55.3 |
| 1994 | 26.3 | 31.6 | 41.8 | 58.4 | 60.0 | 75.8 | 79.8 | 73.2 | 67.2 | 53.9 | 49.7 | 40.0 | 54.8 |
| 1995 | 36.6 | 30.3 | 45.3 | 51.5 | 62.2 | 72.0 | 78.7 | 77.1 | 68.2 | 59.3 | 41.3 | 31.3 | 54.5 |
| 1996 | 29.9 | 33.3 | 38.4 | 52.6 | 60.1 | 73.0 | 74.1 | 74.0 | 67.7 | 55.1 | 40.1 | 39.2 | 53.1 |
| 1997 | 31.8 | 38.9 | 43.2 | 50.3 | 58.6 | 69.6 | 75.9 | 72.8 | 65.5 | 55.6 | 43.6 | 37.6 | 53.6 |
| 1998 | 39.8 | 41.0 | 44.7 | 54.2 | 65.3 | 70.5 | 75.1 | 75.5 | 70.9 | 57.0 | 46.9 | 41.0 | 56.8 |
| 1999 | 34.8 | 36.9 | 41.7 | 52.7 | 62.9 | 71.6 | 80.0 | 75.8 | 68.1 | 53.8 | 49.4 | 38.8 | 55.5 |
| 2000 | 31.5 | 36.6 | 47.3 | 51.9 | 63.8 | 72.0 | 72.9 | 72.7 | 65.0 | 56.4 | 44.2 | 30.1 | 53.7 |
| 2001 | 31.6 | 36.2 | 39.8 | 53.3 | 62.7 | 73.0 | 72.7 | 77.3 | 65.6 | 56.7 | 50.8 | 42.5 | 55.2 |
| 2002 | 37.8 | 39.4 | 44.3 | 55.7 | 61.4 | 71.8 | 77.5 | 77.8 | 69.3 | 55.5 | 43.6 | 34.3 | 55.7 |
| POR= 108 YRS | 32.4 | 33.6 | 42.2 | 52.3 | 62.7 | 71.4 | 76.1 | 74.3 | 67.8 | 56.5 | 45.8 | 35.5 | 54.2 |

HEATING DEGREE DAYS (base 65°F) 2002 WILMINGTON, DE (ILG)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-------|
| 1973-74 | 0 | 0 | 15 | 179 | 469 | 839 | 886 | 887 | 635 | 300 | 137 | 7 | 4354 |
| 1974-75 | 0 | 0 | 65 | 362 | 553 | 805 | 847 | 808 | 753 | 520 | 84 | 5 | 4802 |
| 1975-76 | 0 | 0 | 56 | 177 | 418 | 888 | 1149 | 681 | 567 | 341 | 178 | 31 | 4486 |
| 1976-77 | 0 | 4 | 44 | 387 | 734 | 1047 | 1361 | 884 | 546 | 333 | 107 | 32 | 5479 |
| 1977-78 | 0 | 1 | 31 | 353 | 550 | 975 | 1165 | 1179 | 842 | 433 | 191 | 17 | 5737 |
| 1978-79 | 6 | 0 | 60 | 337 | 542 | 854 | 1037 | 1197 | 605 | 424 | 89 | 28 | 5179 |
| 1979-80 | 4 | 7 | 31 | 318 | 458 | 827 | 1004 | 1009 | 768 | 307 | 83 | 35 | 4851 |
| 1980-81 | 0 | 0 | 20 | 322 | 645 | 985 | 1222 | 752 | 763 | 299 | 135 | 4 | 5147 |
| 1981-82 | 0 | 0 | 57 | 370 | 585 | 947 | 1259 | 855 | 715 | 426 | 69 | 12 | 5295 |
| 1982-83 | 0 | 14 | 29 | 305 | 519 | 724 | 919 | 822 | 587 | 368 | 163 | 7 | 4457 |
| 1983-84 | 0 | 0 | 74 | 275 | 542 | 1013 | 1240 | 758 | 904 | 422 | 162 | 5 | 5395 |
| 1984-85 | 0 | 2 | 113 | 149 | 641 | 701 | 1154 | 766 | 550 | 248 | 73 | 7 | 4404 |
| 1985-86 | 0 | 0 | 45 | 213 | 411 | 986 | 1011 | 930 | 653 | 373 | 99 | 11 | 4732 |
| 1986-87 | 0 | 27 | 36 | 276 | 619 | 848 | 1032 | 923 | 628 | 374 | 143 | 2 | 4908 |
| 1987-88 | 0 | 2 | 22 | 406 | 521 | 811 | 1159 | 869 | 637 | 419 | 121 | 38 | 5005 |
| 1988-89 | 3 | 0 | 52 | 434 | 541 | 923 | 893 | 854 | 710 | 395 | 142 | 0 | 4947 |
| 1989-90 | 0 | 2 | 54 | 236 | 605 | 1231 | 749 | 661 | 593 | 368 | 127 | 6 | 4632 |
| 1990-91 | 2 | 1 | 69 | 214 | 494 | 734 | 943 | 700 | 617 | 320 | 61 | 5 | 4160 |
| 1991-92 | 0 | 0 | 64 | 244 | 541 | 785 | 914 | 799 | 723 | 386 | 169 | 12 | 4637 |
| 1992-93 | 0 | 1 | 57 | 363 | 527 | 817 | 843 | 945 | 799 | 360 | 64 | 12 | 4788 |
| 1993-94 | 0 | 0 | 55 | 286 | 526 | 879 | 1193 | 929 | 715 | 223 | 189 | 2 | 4997 |
| 1994-95 | 0 | 0 | 29 | 343 | 454 | 770 | 875 | 967 | 598 | 401 | 122 | 0 | 4559 |
| 1995-96 | 0 | 0 | 41 | 208 | 703 | 1033 | 1083 | 912 | 816 | 378 | 206 | 10 | 5390 |
| 1996-97 | 0 | 0 | 43 | 304 | 741 | 794 | 1025 | 729 | 672 | 436 | 201 | 56 | 5001 |
| 1997-98 | 2 | 0 | 71 | 324 | 635 | 844 | 775 | 667 | 645 | 317 | 89 | 27 | 4396 |
| 1998-99 | 0 | 0 | 22 | 241 | 536 | 738 | 926 | 782 | 715 | 362 | 95 | 7 | 4424 |
| 1999-00 | 0 | 1 | 36 | 340 | 462 | 807 | 1032 | 816 | 544 | 390 | 117 | 15 | 4560 |
| 2000-01 | 0 | 2 | 99 | 274 | 619 | 1074 | 1029 | 801 | 776 | 361 | 110 | 10 | 5155 |
| 2001-02 | 1 | 0 | 73 | 271 | 418 | 691 | 836 | 712 | 633 | 324 | 159 | 7 | 4125 |
| 2002- | 0 | 1 | 11 | 325 | 636 | 945 | | | | | | | |

WBAN : 13781

COOLING DEGREE DAYS (base 65°F) 2002 WILMINGTON, DE (ILG)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1973 | 0 | 0 | 0 | 19 | 42 | 332 | 416 | 413 | 183 | 29 | 0 | 0 | 1434 |
| 1974 | 0 | 0 | 0 | 24 | 64 | 175 | 370 | 355 | 113 | 2 | 6 | 0 | 1109 |
| 1975 | 0 | 0 | 0 | 0 | 97 | 207 | 337 | 355 | 73 | 27 | 5 | 0 | 1101 |
| 1976 | 0 | 0 | 0 | 37 | 25 | 260 | 291 | 278 | 106 | 6 | 0 | 0 | 1003 |
| 1977 | 0 | 0 | 5 | 20 | 80 | 156 | 360 | 328 | 166 | 0 | 5 | 0 | 1120 |
| 1978 | 0 | 0 | 0 | 0 | 48 | 188 | 273 | 383 | 117 | 7 | 0 | 0 | 1016 |
| 1979 | 0 | 0 | 4 | 1 | 57 | 123 | 327 | 324 | 138 | 16 | 0 | 0 | 990 |
| 1980 | 0 | 0 | 0 | 0 | 83 | 159 | 400 | 417 | 214 | 10 | 0 | 0 | 1283 |
| 1981 | 0 | 0 | 0 | 9 | 62 | 228 | 381 | 270 | 120 | 3 | 0 | 0 | 1073 |
| 1982 | 0 | 0 | 0 | 2 | 75 | 163 | 391 | 238 | 107 | 32 | 1 | 0 | 1009 |
| 1983 | 0 | 0 | 0 | 17 | 47 | 218 | 398 | 378 | 209 | 29 | 0 | 0 | 1296 |
| 1984 | 0 | 0 | 0 | 0 | 50 | 276 | 321 | 327 | 80 | 34 | 0 | 0 | 1088 |
| 1985 | 0 | 0 | 4 | 47 | 106 | 181 | 366 | 300 | 174 | 13 | 0 | 0 | 1191 |
| 1986 | 0 | 0 | 0 | 0 | 129 | 227 | 379 | 267 | 116 | 40 | 0 | 0 | 1158 |
| 1987 | 0 | 0 | 0 | 3 | 91 | 264 | 446 | 295 | 129 | 0 | 0 | 0 | 1228 |
| 1988 | 0 | 0 | 0 | 0 | 62 | 242 | 455 | 389 | 80 | 5 | 0 | 0 | 1233 |
| 1989 | 0 | 0 | 6 | 0 | 61 | 287 | 345 | 299 | 162 | 17 | 0 | 0 | 1177 |
| 1990 | 0 | 0 | 10 | 36 | 23 | 227 | 395 | 304 | 127 | 66 | 0 | 0 | 1188 |
| 1991 | 0 | 0 | 1 | 18 | 197 | 271 | 390 | 371 | 135 | 23 | 2 | 0 | 1408 |
| 1992 | 0 | 0 | 0 | 3 | 39 | 156 | 358 | 230 | 134 | 3 | 0 | 0 | 923 |
| 1993 | 0 | 0 | 0 | 1 | 79 | 252 | 452 | 405 | 176 | 3 | 4 | 0 | 1372 |
| 1994 | 0 | 0 | 0 | 32 | 41 | 334 | 466 | 260 | 99 | 4 | 0 | 0 | 1236 |
| 1995 | 0 | 0 | 0 | 4 | 42 | 218 | 434 | 381 | 148 | 39 | 1 | 0 | 1267 |
| 1996 | 0 | 0 | 0 | 13 | 64 | 254 | 291 | 285 | 129 | 2 | 0 | 0 | 1038 |
| 1997 | 0 | 0 | 0 | 0 | 9 | 204 | 348 | 248 | 92 | 40 | 0 | 0 | 941 |
| 1998 | 0 | 0 | 22 | 0 | 106 | 195 | 320 | 337 | 204 | 2 | 0 | 0 | 1186 |
| 1999 | 0 | 0 | 0 | 0 | 40 | 211 | 476 | 342 | 139 | 1 | 0 | 0 | 1209 |
| 2000 | 0 | 0 | 0 | 3 | 89 | 230 | 253 | 247 | 106 | 11 | 0 | 0 | 939 |
| 2001 | 0 | 0 | 0 | 16 | 46 | 257 | 247 | 388 | 100 | 21 | 0 | 0 | 1075 |
| 2002 | 0 | 0 | 0 | 51 | 53 | 219 | 397 | 405 | 147 | 39 | 0 | 0 | 1311 |

SNOWFALL (inches) 2002 WILMINGTON, DE (ILG)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-------|
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 2.4 | 11.5 | T | T | 0.0 | 0.0 | 20.0 |
| 1974-75 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 5.1 | 4.8 | 1.1 | T | 0.0 | 0.0 | 11.0 |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 4.5 | 1.7 | 6.7 | T | 0.0 | 0.0 | 13.2 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 3.2 | 14.5 | T | 0.0 | T | 0.0 | 0.0 | 17.8 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.9 | 16.0 | 18.4 | 9.9 | T | 0.0 | 0.0 | 45.6 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | T | 12.0 | 27.5 | 0.2 | T | 0.0 | 0.0 | 44.2 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 1.4 | 6.1 | 0.8 | 5.1 | 0.0 | 0.0 | 0.0 | 15.9 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.4 | 6.5 | T | 3.7 | 0.0 | 0.0 | 0.0 | 12.1 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | T | 2.8 | 14.6 | 4.5 | 0.4 | 2.6 | 0.0 | 0.0 | 24.9 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | T | 5.8 | T | 18.5 | 0.3 | 0.5 | 0.0 | 0.0 | 25.1 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 9.7 | T | 5.2 | T | 0.0 | 0.0 | 14.9 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.3 | 14.2 | 0.7 | T | 0.4 | 0.0 | 0.0 | 15.6 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 3.1 | 9.7 | T | T | 0.0 | 0.0 | 14.2 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.3 | 21.4 | 15.7 | 0.2 | 2.4 | 0.0 | 0.0 | 40.0 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.1 | 10.8 | 1.1 | T | T | 0.0 | 0.0 | 14.7 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.2 | 6.7 | 2.9 | 1.2 | 0.0 | 0.0 | 0.0 | 11.0 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 8.9 | 1.5 | 1.0 | 1.3 | 1.6 | 0.0 | 0.0 | 19.9 |
| 1990-91 | T | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 5.2 | 0.6 | 0.9 | T | T | 0.0 | 13.1 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.2 | 1.5 | 1.3 | 0.5 | T | 0.0 | T | 3.5 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.1 | 1.4 | 10.0 | 13.9 | 0.0 | 0.0 | 0.0 | 25.4 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.0 | T | 2.4 | 2.7 | 9.2 | 3.4 | 0.0 | 0.0 | 0.0 | 17.7 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | T | 8.3 | T | 0.0 | 0.0 | 0.0 | 8.3 |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 7.1 | 26.2 | 7.5 | 6.0 | 5.9 | T | 0.0 | 55.9 |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.8 | 5.6 | 6.5 | 2.8 | 0.0 | 0.0 | 15.7 |
| 1997-98 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.5 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 8.5 |
| 1999-00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.2 | 4.0 | 0.0 | 2.1 | 0.0 | 0.0 | 20.3 |
| 2000-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 4.8 | 5.0 | 0.7 | T | 0.0 | 0.0 | 12.6 |
| 2001-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | T | T | T | 0.0 | 0.0 | 2.4 |
| 2002- | 0.0 | 0.0 | 0.0 | T | T | 9.0 | | | | | | | |
| POR= 52 YRS | T | 0.0 | 0.0 | 0.1 | 0.9 | 3.2 | 6.8 | 5.9 | 3.0 | 0.2 | T | T | 20.1 |

WBAN : 13781

REFERENCE NOTES:

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| <p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p> | <p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> |
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2002 WILMINGTON, DELAWARE (ILG)

Delaware is part of the Atlantic Coastal Plain consisting mainly of flat low land with many marshes. Small streams and tidal estuaries comprise the drainage of the State. Wilmington, at the northern end of the State, marks the beginning of low rolling hills extending northward and northwestward into Pennsylvania. The Delaware River, the Delaware Bay, and the Atlantic Ocean are along the eastern boundary of the State. The broad Chesapeake Bay lies 35 miles, or less, to the west of the western boundary of nearly the entire State. These large water areas considerably influence the climate of the Wilmington, Delaware region.

Summers are warm and humid, winters are usually mild. During the summer maximum temperatures are usually in the 80s. The temperature reaches 100 degrees on the average once in six years. During January, the coldest month of the year, the daily average temperature is 32 degrees. Temperatures of zero may be expected once in four years. Most of the winter precipitation falls as rain. Seasonal snowfall has been as little as 1 inch, and as much as 50 inches. Snow is frequently mixed with rain and sleet, and seldom remains on the ground more than a few days.

The proximity of large water areas and the inflow of southerly winds cause the relative humidity to be quite high all year. During the summer months the relative humidity is approximately 75 percent. Fog is relatively frequent and may occur in any month. Light southeast winds blowing up the Delaware Bay favor the formation of fog. Light north-northeast winds bring in smoke from Philadelphia and from the heavy industry area located along the Delaware River north of Wilmington.

Rainfall distribution throughout the year is fairly uniform, however, the greatest amounts normally come during the summer months. Mostly, the summer rainfall comes in the form of thunderstorms. Moisture deficiencies for crops occur occasionally, but severe droughts are rare. During the fall, winter, and spring seasons, much of the rainfall comes from storms forming over the southern states or the South Atlantic and moving northward along the coast. During the late summer and early fall, hurricanes occasionally cause heavy rainfall, but winds seldom reach hurricane force in Wilmington. Heavy rains occasionally cause minor flooding, but the streams and rivers of northern Delaware are not subject to major flooding. Strong easterly and southeasterly winds sometimes cause high tides in the Delaware Bay and the Delaware River, resulting in the flooding of lowlands and damage to bay front and river front properties.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 29 and the average last occurrence in the spring is April 13.

STATION LOCATION

WILMINGTON, DELAWARE

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | AUTOMATIC OBSERVING EQUIPMENT * | * TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS |
|--|---------------|-------------|---|----------------|----------------|-----------------|--------|-----------------|---------------------|--------------|-----------------|----------------------|--------------------|------------------|------------------|---|--|
| | | | | | | GROUND | | | | | | | | | | | |
| | | | | | | SEA LEVEL | GROUND | WIND INSTRUMENT | EXTREME THERMOMETER | PSYCHROMETER | SUNSHINE SWITCH | TIPPING GAUGE BUCKET | WEIGHING RAIN GAGE | 8 INCH RAIN GAGE | HYGROTHERMOMETER | | |
| *NOTE: | | | | | | | | | | | | | | | | | |
| <u>AIRPORT</u> | | | | | | | | | | | | | | | | | |
| Bellanca Field New Castle, Delaware 6.1 miles SSW Wilmington Post Office | 4/20/31 | 6/?/34 | | 39°40' | 75°36' | | | | | | | | | | | | |
| DuPont Airport Wilmington Delaware 3 miles WNW Wilmington Post Office | 4/27/42 | 12/8/42 | 6.8 mi. N | 39°46' | 75°36' | | | | | | | | | | | | |
| New Castle County Airport Tower, Wilmington, Delaware, 5.6 miles SW of Post Office | 5/19/47 | 11/6/47 | 5.6 mi. SSW | 39°40' | 75°36' | 75 | | | | | | | | | | Airway observation by county tower employees. | |
| New Castle County Airport, Admn. Bldg. | 11/7/47 | 12/5/47 | 125 yds. SW | 39°40' | 75°36' | 73 | 75 | 5 | 5 | | | | 3 | | | Wind instruments of previous location used. | |
| New Castle County Airport, Terminal Bldg. | 12/5/47 | 7/16/56 | 150 ft. NE | 39°40' | 75°36' | 73 | 34 | 5 | 5 | | | | 4 | | | Exposure of instruments good. | |
| New Terminal Building New Castle County AP + + Greater Wilmington Airport eff. 5/1961 | 7/16/56 | 10/01/94 | 7/8 mi. SE | 39°40' | 75°36' | 78 b74 | 20 | s5 | s5 | NA | A | 5 | 4 | NA a4 c4 | NA | Exposure of instruments excellent. a. Commissioned 1000 feet from thermometer site 4/11/67. b. Lowered 4/11/67. s. Standby after 4/11/67. c. Type change 8/12/85. | |
| New Castle County AP | 10/01/94 | Present | NA | 39°40' | 75°36' | d92 | | | | | | | | | S | ASOS commissioned 10/1/94. d. Ground elevation. | |

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* NOTES: For earlier station history see previous edition.