

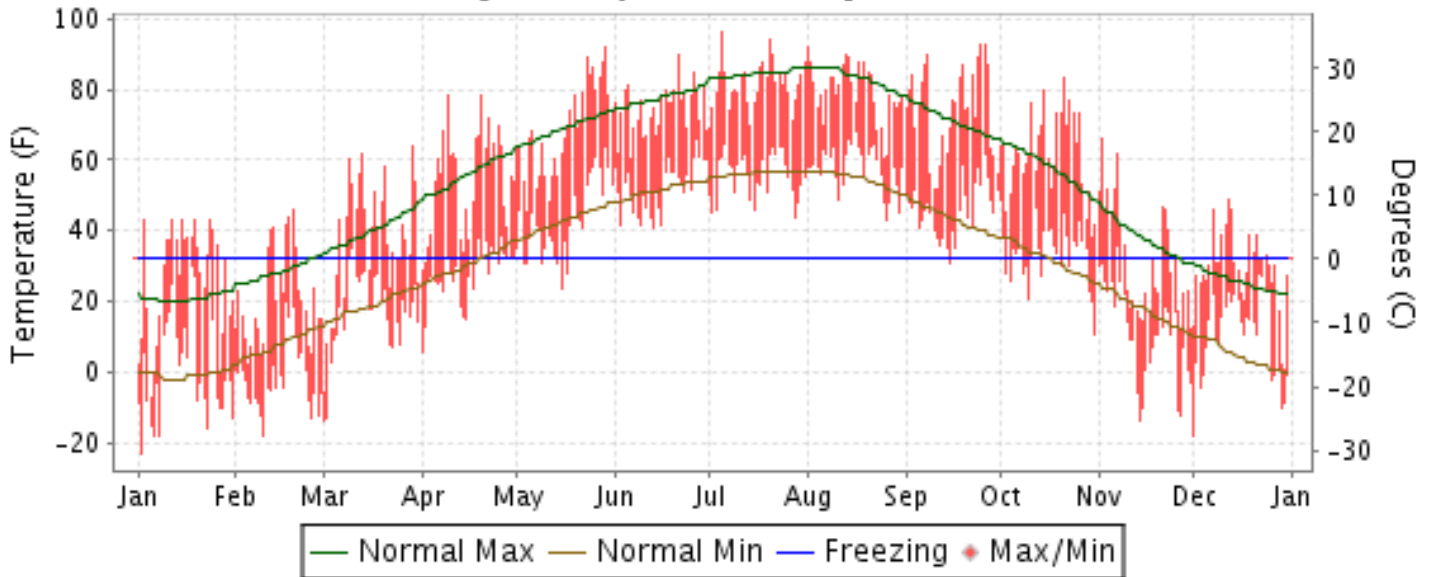


2014 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

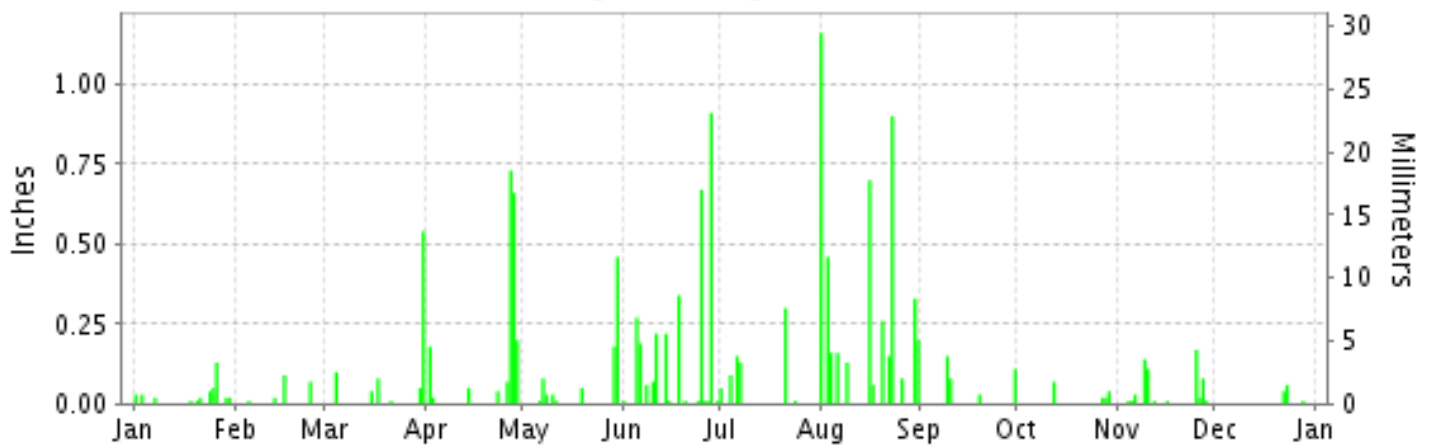
ISSN 0198-3814

BISMARCK, NORTH DAKOTA (KBIS)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2014

BISMARCK (KBIS)

LATITUDE: 46° 46'N LONGITUDE: 100° 45'W ELEVATION (FT): GRND: 1651 BARO: 1654 TIME ZONE: CENTRAL (UTC -6) WBAN: 24011

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 26.3 | 20.9 | 37.6 | 54.5 | 68.6 | 74.4 | 81.4 | 79.3 | 74.3 | 61.9 | 31.9 | 29.1 | 53.4 | |
| | HIGHEST DAILY MAXIMUM | 43 | 46 | 64 | 78 | 92 | 90 | 96 | 92 | 93 | 83 | 66 | 49 | 96 | |
| | DATE OF OCCURRENCE | 24+ | 19 | 29 | 20+ | 29 | 21 | 05 | 01 | 26+ | 21 | 02 | 12 | JUL 05 | |
| | MEAN DAILY MINIMUM | 1.3 | -1.6 | 16.8 | 27.7 | 43.1 | 52.4 | 55.7 | 58.0 | 46.1 | 33.6 | 11.1 | 10.4 | 29.6 | |
| | LOWEST DAILY MINIMUM | -23 | -18 | -14 | 6 | 24 | 41 | 44 | 43 | 31 | 11 | -14 | -18 | -23 | |
| | DATE OF OCCURRENCE | 02 | 10 | 01 | 01 | 15 | 13 | 28 | 26 | 15 | 31 | 14 | 01 | JAN 02 | |
| | AVERAGE DRY BULB | 13.8 | 9.6 | 27.2 | 41.1 | 55.8 | 63.4 | 68.5 | 68.7 | 60.2 | 47.8 | 21.5 | 19.8 | 41.5 | |
| | MEAN WET BULB | 12.1 | 7.9 | 23.5 | | 49.3 | | 60.8 | 62.9 | 53.1 | 41.7 | 19.6 | 18.6 | | |
| | MEAN DEW POINT | 6.4 | 1.2 | 16.2 | | 41.5 | 53.5 | 55.4 | 59.7 | 47.6 | 34.6 | 14.3 | 15.5 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM >= 90° | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 10 |
| | MAXIMUM <= 32° | 16 | 21 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 22 | 89 | |
| | MINIMUM <= 32° | 31 | 28 | 30 | 20 | 7 | 0 | 0 | 0 | 1 | 11 | 29 | 31 | 188 | |
| MINIMUM <= 0° | 17 | 18 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 8 | 51 | | |
| H/C | HEATING DEGREE DAYS | 1579 | 1543 | 1164 | 710 | 330 | 94 | 28 | 34 | 188 | 526 | 1296 | 1395 | 8887 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 51 | 53 | 148 | 154 | 51 | 0 | 0 | 0 | 457 | |
| RH | MEAN (PERCENT) | 71 | 68 | 66 | 61 | 60 | 72 | 65 | 77 | 69 | 63 | 73 | 83 | 69 | |
| | HOUR 00 LST | 74 | 73 | 75 | 74 | 72 | 82 | 78 | 88 | 81 | 71 | 79 | 84 | 78 | |
| | HOUR 06 LST | 75 | 74 | 78 | 80 | 82 | 88 | 86 | 92 | 90 | 79 | 80 | 87 | 83 | |
| | HOUR 12 LST | 67 | 62 | 55 | 47 | 48 | 62 | 50 | 64 | 50 | 49 | 65 | 79 | 58 | |
| | HOUR 18 LST | 69 | 62 | 54 | 46 | 43 | 58 | 46 | 64 | 51 | 53 | 69 | 82 | 58 | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY <= 1/4 MI) | 1 | 1 | 1 | 0 | 0 | 1 | 3 | 3 | 0 | 0 | 1 | 3 | 14 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 0 | 3 | 6 | 4 | 6 | 1 | 0 | 0 | 0 | 20 | |
| PR | MEAN STATION PRESS. (IN.) | 28.20 | 28.27 | 28.25 | 28.17 | 28.20 | 28.09 | 28.25 | 28.22 | 28.23 | 28.17 | 28.25 | 28.30 | 28.22 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.06 | 30.15 | 30.08 | 29.95 | 29.97 | 29.83 | 29.99 | 29.96 | 30.00 | 29.95 | 30.08 | 30.15 | 30.01 | |
| WINDS | RESULTANT SPEED (MPH) | 7.5 | 5.2 | 3.0 | 3.1 | 2.1 | 2.3 | 1.3 | 1.5 | 1.3 | 3.7 | 5.3 | 1.2 | 2.3 | |
| | RES. DIR. (TENS OF DEGS.) | 31 | 31 | 35 | 04 | 01 | 27 | 33 | 10 | 05 | 28 | 31 | 36 | 33 | |
| | MEAN SPEED (MPH) | 11.9 | 9.9 | 10.2 | 11.5 | 10.1 | 9.2 | 8.3 | 7.4 | 9.2 | 10.0 | 10.7 | 7.8 | 9.7 | |
| | PREVAIL.DIR.(TENS OF DEGS.) | 31 | 33 | 33 | 09 | 34 | 27 | 32 | 14 | 03 | 30 | 32 | 14 | 32 | |
| | MAXIMUM 2-MINUTE WIND | | | | | | | | | | | | | | |
| | SPEED (MPH) | 47 | 37 | 35 | 39 | 35 | 39 | 44 | 32 | 32 | 37 | 37 | 30 | 47 | |
| | DIR. (TENS OF DEGS.) | 33 | 32 | 35 | 15 | 16 | 27 | 29 | 12 | 16 | 33 | 28 | 31 | 33 | |
| | DATE OF OCCURRENCE | 16 | 13 | 31 | 23 | 29 | 30 | 21 | 01 | 26 | 03 | 23 | 07 | JAN 16 | |
| | MAXIMUM 3-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 68 | 46 | 46 | 48 | 45 | 50 | 54 | 55 | 40 | 52 | 48 | 38 | 68 | |
| DIR. (TENS OF DEGS.) | 34 | 32 | 35 | 33 | 33 | 26 | 31 | 10 | 33 | 32 | 32 | 33 | 34 | | |
| DATE OF OCCURRENCE | 16 | 13 | 31 | 07 | 12 | 30 | 21 | 01 | 20 | 03 | 18 | 15 | JAN 16 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.38 | 0.19 | 0.82 | 1.95 | 0.85 | 3.02 | 0.73 | 4.75 | 0.37 | 0.15 | 0.60 | 0.11 | 13.92 | |
| | GREATEST 24-HOUR (IN.) | 0.14 | 0.09 | 0.54 | 1.05 | 0.64 | 0.91 | 0.30 | 1.16 | 0.17 | 0.07 | 0.24 | 0.10 | 1.16 | |
| | DATE OF OCCURRENCE | 25-26 | 16 | 31 | 27-28 | 29-30 | 28 | 21 | 01 | 09-10 | 12 | 09-10 | 22-23 | AUG 01 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION 0.01 | 11 | 4 | 6 | 8 | 8 | 16 | 6 | 13 | 4 | 4 | 11 | 3 | 94 | | |
| PRECIPITATION 0.10 | 1 | 0 | 2 | 4 | 2 | 7 | 3 | 11 | 2 | 0 | 3 | 0 | 35 | | |
| PRECIPITATION 1.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| SNOWFALL | SNOW,ICE PELLETS,HAIL | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 5.8 | 2.3 | 11.1 | 4.2 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | 2.4 | 33.7 | |
| | GREATEST 24-HOUR (IN.) | 1.3 | 1.2 | 8.1 | 2.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 8.1 | |
| | DATE OF OCCURRENCE | 26 | 16 | 31 | 14 | 04 | | | | | | 25 | 23 | MAR 31 | |
| | MAXIMUM SNOW DEPTH (IN.) | 8 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 8 | |
| | DATE OF OCCURRENCE | 09+ | 17+ | 31+ | 01 | | | | | | | 13 | 07+ | JAN 09+ | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL >= 1.0 | 3 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 12 | | |

NORMALS, MEANS, AND EXTREMES BISMARCK (KBIS)

LATITUDE: 46° 46'N LONGITUDE: 100° 45'W ELEVATION (FT): GRND: 1651 BARO: 1654 TIME ZONE: CENTRAL (UTC -6) WBAN: 24011

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|--|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 23.4 | 28.3 | 40.4 | 57.0 | 68.4 | 77.3 | 84.7 | 83.5 | 72.1 | 57.5 | 39.6 | 26.2 | 54.9 |
| | MEAN DAILY MAXIMUM | 67 | 20.5 | 26.4 | 38.0 | 55.4 | 68.0 | 76.9 | 84.5 | 83.3 | 72.1 | 58.4 | 39.6 | 26.0 | 54.1 |
| | HIGHEST DAILY MAXIMUM | 75 | 63 | 69 | 81 | 93 | 98 | 111 | 112 | 109 | 105 | 95 | 79 | 65 | 112 |
| | YEAR OF OCCURRENCE | | 2002 | 1992 | 2012 | 1992 | 1941 | 2002 | 2006 | 1941 | 1959 | 1963 | 1999 | 1979 | JUL 2006 |
| | MEAN OF EXTREME MAXS. | 67 | 44.1 | 48.7 | 63.1 | 80.4 | 87.3 | 92.6 | 98.8 | 98.5 | 92.5 | 82.2 | 63.6 | 49.0 | 75.1 |
| | NORMAL DAILY MINIMUM | 30 | 2.2 | 7.9 | 19.4 | 30.7 | 42.6 | 52.0 | 57.4 | 55.5 | 45.0 | 32.2 | 18.8 | 6.1 | 30.8 |
| | MEAN DAILY MINIMUM | 67 | -0.5 | 5.5 | 17.1 | 30.7 | 42.3 | 51.8 | 57.0 | 55.0 | 44.2 | 32.6 | 18.3 | 5.9 | 30.0 |
| | LOWEST DAILY MINIMUM | 75 | -44 | -43 | -31 | -12 | 15 | 30 | 35 | 33 | 11 | -10 | -30 | -43 | -44 |
| | YEAR OF OCCURRENCE | | 2009 | 1994 | 1948 | 1975 | 1967 | 1969 | 1971 | 1988 | 1974 | 1991 | 1985 | 1967 | JAN 2009 |
| | MEAN OF EXTREME MINS. | 67 | -25.9 | -19.9 | -7.5 | 14.1 | 26.6 | 38.6 | 45.2 | 41.1 | 28.3 | 16.7 | -2.6 | -17.6 | 11.4 |
| | NORMAL DRY BULB | 30 | 12.8 | 18.1 | 29.9 | 43.8 | 55.5 | 64.7 | 71.1 | 69.5 | 58.5 | 44.8 | 29.2 | 16.2 | 42.8 |
| | MEAN DRY BULB | 67 | 9.9 | 16.0 | 27.6 | 43.1 | 55.2 | 64.5 | 70.8 | 69.1 | 58.2 | 45.5 | 29.1 | 16.1 | 42.1 |
| | MEAN WET BULB | 31 | 11.0 | 15.2 | 24.8 | 35.6 | 46.6 | 56.5 | 61.0 | 59.1 | 50.2 | 37.6 | 24.2 | 14.2 | 36.3 |
| | MEAN DEW POINT | 31 | 9.3 | 13.1 | 22.5 | 31.2 | 43.6 | 54.0 | 58.8 | 56.5 | 46.6 | 34.4 | 22.3 | 12.2 | 33.7 |
| | NORMAL NO. DAYS WITH: MAXIMUM >= 90 | 30 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 2.5 | 8.0 | 7.7 | 1.7 | 0.1 | 0.0 | 0.0 | 20.5 |
| | MAXIMUM <= 32 | 30 | 20.8 | 16.3 | 8.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 8.8 | 18.8 | 74.5 |
| MINIMUM <= 32 | 30 | 30.8 | 27.4 | 28.9 | 17.1 | 3.5 | 0.0 | 0.0 | 0.0 | 1.7 | 15.3 | 27.3 | 30.8 | 182.8 | |
| MINIMUM <= 0 | 30 | 13.4 | 8.8 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.9 | 9.6 | 36.2 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1618 | 1313 | 1088 | 636 | 310 | 93 | 17 | 38 | 231 | 626 | 1074 | 1514 | 8558 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 1 | 16 | 83 | 204 | 177 | 38 | 1 | 0 | 0 | 520 |
| RH | NORMAL (PERCENT) | 30 | 75 | 75 | 73 | 63 | 62 | 66 | 64 | 63 | 65 | 67 | 75 | 77 | 69 |
| | HOURLY 00 LST | 30 | 78 | 80 | 80 | 73 | 72 | 79 | 78 | 75 | 75 | 74 | 80 | 80 | 77 |
| | HOURLY 06 LST | 30 | 78 | 81 | 83 | 81 | 81 | 85 | 86 | 86 | 83 | 81 | 83 | 81 | 82 |
| | HOURLY 12 LST | 30 | 71 | 69 | 63 | 51 | 49 | 52 | 49 | 49 | 51 | 54 | 68 | 73 | 58 |
| | HOURLY 18 LST | 30 | 74 | 71 | 62 | 47 | 45 | 49 | 45 | 43 | 47 | 54 | 70 | 76 | 57 |
| S | PERCENT POSSIBLE SUNSHINE | 63 | 53 | 53 | 58 | 58 | 61 | 64 | 74 | 71 | 65 | 58 | 44 | 47 | 59 |
| W/O | MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI) | 51 | 1.4 | 1.4 | 1.6 | 1.1 | 0.4 | 0.8 | 0.9 | 0.9 | 0.6 | 1.0 | 1.6 | 1.6 | 13.3 |
| | THUNDERSTORMS | 67 | 0.0 | 0.0 | 0.1 | 1.0 | 3.8 | 8.0 | 8.7 | 7.0 | 2.6 | 0.5 | 0.0 | 0.0 | 31.7 |
| CLOUDINESS | MEAN: SUNRISE-SUNSET (OKTAS) | | | | | | | | | | | | | | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | | | | | | | | | | | | | | |
| | MEAN NO. DAYS WITH: CLEAR | 1 | 6.0 | 10.0 | 6.0 | 3.0 | | | | | | | | | |
| | PARTLY CLOUDY | 1 | 10.0 | 10.0 | 9.0 | 10.0 | | | | | | | | | |
| | CLOUDY | 1 | 15.0 | 9.0 | 16.0 | 17.0 | | | | | | | | | |
| PR | MEAN STATION PRESSURE(IN) | 31 | 28.26 | 28.27 | 28.24 | 28.19 | 28.16 | 28.14 | 28.19 | 28.20 | 28.21 | 28.21 | 28.22 | 28.25 | 28.21 |
| | MEAN SEA-LEVEL PRES. (IN) | 31 | 30.12 | 30.12 | 30.06 | 29.97 | 29.92 | 29.88 | 29.93 | 29.94 | 29.97 | 30.00 | 30.04 | 30.10 | 30.00 |
| WINDS | MEAN SPEED (MPH) | 31 | 9.3 | 9.1 | 10.2 | 10.8 | 10.7 | 9.5 | 8.6 | 8.7 | 9.0 | 9.4 | 9.1 | 9.0 | 9.5 |
| | PREVAIL.DIR(TENS OF DEGS) | 46 | 31 | 33 | 32 | 06 | 33 | 30 | 16 | 16 | 32 | 31 | 31 | 32 | 31 |
| | MAXIMUM 2-MINUTE: SPEED (MPH) | 19 | 47 | 52 | 44 | 55 | 54 | 55 | 64 | 56 | 41 | 45 | 47 | 47 | 64 |
| | DIR. (TENS OF DEGS) | | 33 | 30 | 30 | 31 | 27 | 15 | 22 | 27 | 25 | 32 | 31 | 29 | 22 |
| | YEAR OF OCCURRENCE | | 2014 | 2002 | 2011 | 2000 | 1996 | 2010 | 2001 | 2011 | 1997 | 2012 | 1999 | 2004 | JUL 2001 |
| | MAXIMUM 3-SECOND SPEED (MPH) | 19 | 68 | 68 | 61 | 71 | 69 | 78 | 76 | 71 | 64 | 61 | 61 | 55 | 78 |
| | DIR. (TENS OF DEGS) | | 34 | 31 | 32 | 32 | 26 | 15 | 22 | 28 | 23 | 31 | 30 | 28 | 15 |
| YEAR OF OCCURRENCE | | 2014 | 2002 | 2004 | 2000 | 1996 | 2010 | 2001 | 2011 | 1997 | 2010 | 1999 | 2004 | JUN 2010 | |
| PRECIPITATION | NORMAL (IN) | 30 | 0.43 | 0.51 | 0.87 | 1.26 | 2.40 | 3.17 | 2.89 | 2.28 | 1.59 | 1.25 | 0.71 | 0.49 | 17.85 |
| | MAXIMUM MONTHLY (IN) | 75 | 1.29 | 1.74 | 3.19 | 5.46 | 7.37 | 8.29 | 13.75 | 9.29 | 6.93 | 4.73 | 2.56 | 1.41 | 13.75 |
| | YEAR OF OCCURRENCE | | 1969 | 2000 | 1975 | 1975 | 2013 | 1947 | 1993 | 1998 | 1977 | 2013 | 1944 | 2008 | JUL 1993 |
| | MINIMUM MONTHLY (IN) | 75 | 0.02 | 0.03 | 0.09 | T | 0.28 | 0.50 | 0.18 | 0.03 | 0.02 | 0.02 | T | T | 0.02 |
| | YEAR OF OCCURRENCE | | 1940 | 1985 | 1981 | 1952 | 1984 | 1974 | 1968 | 2001 | 1948 | 1993 | 1990 | 1944 | OCT 1993 |
| | MAXIMUM IN 24 HOURS (IN) | 75 | 0.67 | 1.18 | 1.30 | 1.97 | 2.54 | 5.77 | 5.27 | 4.74 | 4.34 | 2.43 | 1.43 | 0.72 | 5.77 |
| | YEAR OF OCCURRENCE | | 1952 | 2008 | 1950 | 1964 | 1985 | 2009 | 1993 | 1999 | 1994 | 2013 | 2008 | 2006 | JUN 2009 |
| | NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01 | 30 | 7.5 | 7.0 | 7.9 | 7.4 | 10.1 | 11.2 | 9.7 | 8.2 | 7.5 | 6.6 | 7.0 | 7.6 | 97.7 |
| PRECIPITATION >= 1.00 | 30 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 0.7 | 0.5 | 0.5 | 0.3 | 0.2 | 0.0 | 0.0 | 2.7 | |
| SNOWFALL | NORMAL (IN) | 30 | 8.9 | 8.1 | 9.1 | 4.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.2 | 2.2 | 8.8 | 9.3 | 51.2 |
| | MAXIMUM MONTHLY (IN) | 75 | 25.0 | 25.6 | 31.1 | 21.8 | 10.3 | T | T | T | 5.0 | 23.7 | 29.9 | 33.3 | 33.3 |
| | YEAR OF OCCURRENCE | | 1982 | 1979 | 1975 | 2013 | 1950 | 2006 | 2009 | 2009 | 1984 | 1991 | 1993 | 2008 | DEC 2008 |
| | MAXIMUM IN 24 HOURS (IN) | 75 | 13.2 | 11.0 | 15.5 | 17.3 | 11.0 | T | T | T | 4.8 | 14.3 | 11.4 | 10.0 | 17.3 |
| | YEAR OF OCCURRENCE' | | 1996 | 1996 | 1966 | 2013 | 1967 | 1993 | 2009 | 2009 | 1984 | 1991 | 1986 | 1988 | APR 2013 |
| | MAXIMUM SNOW DEPTH (IN) | 66 | 19 | 28 | 27 | 22 | 11 | 0 | 0 | 0 | 2 | 10 | 19 | 15 | 28 |
| | YEAR OF OCCURRENCE | | 1982 | 1979 | 1979 | 1975 | 1967 | | | | 1984 | 1991 | 1993 | 2009 | FEB 1979 |
| NORMAL NO. DAYS WITH: SNOWFALL >= 1.0 | 30 | 2.6 | 2.7 | 2.5 | 1.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 2.3 | 2.7 | 14.6 | |

PRECIPITATION (inches) 2014 BISMARCK (KBIS)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|-------|------|------|------|------|------|--------|
| 1985 | 0.27 | 0.03 | 0.80 | 1.77 | 4.13 | 1.80 | 0.55 | 4.61 | 1.29 | 1.33 | 0.91 | 0.35 | 17.84 |
| 1986 | 0.36 | 0.25 | 0.25 | 3.60 | 3.11 | 3.95 | 4.24 | 1.61 | 4.41 | 0.35 | 2.09 | 0.02 | 24.24 |
| 1987 | 0.14 | 1.65 | 1.34 | 0.13 | 4.19 | 1.52 | 4.59 | 3.03 | 0.29 | 0.10 | 0.02 | 0.13 | 17.13 |
| 1988 | 0.68 | 0.40 | 0.92 | 0.12 | 1.16 | 2.18 | 0.55 | 2.19 | 0.63 | 0.15 | 0.48 | 0.71 | 10.17 |
| 1989 | 0.59 | 0.21 | 0.29 | 1.86 | 1.92 | 0.70 | 1.76 | 1.62 | 1.23 | 0.21 | 0.64 | 0.30 | 11.33 |
| 1990 | 0.26 | 0.23 | 0.55 | 0.31 | 1.65 | 4.73 | 1.53 | 1.37 | 1.25 | 0.29 | T | 0.50 | 12.67 |
| 1991 | 0.16 | 0.24 | 0.62 | 1.62 | 3.34 | 2.64 | 0.65 | 1.77 | 2.49 | 2.33 | 0.74 | 0.16 | 16.76 |
| 1992 | 0.31 | 0.40 | 0.61 | 0.22 | 1.12 | 3.64 | 2.46 | 0.98 | 1.28 | 0.39 | 0.81 | 0.48 | 12.70 |
| 1993 | 0.29 | 0.33 | 0.38 | 1.26 | 2.36 | 4.57 | 13.75 | 1.89 | 0.26 | 0.02 | 1.04 | 0.84 | 26.99 |
| 1994 | 0.58 | 0.45 | 0.66 | 1.06 | 0.54 | 3.35 | 1.76 | 0.33 | 5.01 | 3.41 | 1.50 | 0.29 | 18.94 |
| 1995 | 0.41 | 0.33 | 1.67 | 1.00 | 4.15 | 1.39 | 4.99 | 1.99 | 0.80 | 1.11 | 0.51 | 0.55 | 18.90 |
| 1996 | 0.94 | 0.66 | 1.18 | 0.51 | 1.62 | 2.93 | | | | | | | |
| 1997 | 0.84 | 0.59 | 0.97 | 3.26 | 0.32 | 1.23 | 2.21 | 1.07 | 1.73 | 2.29 | 0.31 | 0.08 | 14.90 |
| 1998 | 0.09 | 1.67 | 0.39 | 0.66 | 1.10 | 2.90 | 1.89 | 9.29 | 0.98 | 3.09 | 1.40 | 0.24 | 23.70 |
| 1999 | 1.13 | 0.39 | 0.25 | 1.61 | 6.96 | 3.61 | 2.52 | 7.91 | 1.31 | 0.43 | 0.10 | 0.23 | 26.45 |
| 2000 | 0.39 | 1.74 | 1.27 | 1.51 | 2.73 | 5.10 | 4.03 | 1.00 | 0.98 | 2.48 | 1.53 | 0.24 | 23.00 |
| 2001 | 0.46 | 0.44 | 0.24 | 1.88 | 2.00 | 6.91 | 7.31 | T | 1.06 | 0.85 | 0.06 | 0.13 | 21.34 |
| 2002 | 0.33 | 0.13 | 0.79 | 1.15 | 0.52 | 1.53 | 2.61 | 2.39 | 0.62 | 0.79 | 0.12 | 0.32 | 11.30 |
| 2003 | 0.26 | 0.22 | 0.43 | 0.85 | 5.26 | 2.11 | 1.36 | 0.26 | 1.77 | 0.62 | 0.43 | 0.48 | 14.05 |
| 2004 | 0.59 | 0.31 | 1.25 | 0.78 | 1.39 | 3.17 | 2.83 | 2.29 | 2.08 | 1.09 | 0.14 | 0.18 | 16.10 |
| 2005 | 0.36 | 0.11 | 0.54 | 1.04 | 2.37 | 6.23 | 2.65 | 2.87 | 0.26 | 1.21 | 0.74 | 0.84 | 19.22 |
| 2006 | 0.18 | 0.20 | 0.54 | 0.73 | 1.77 | 0.83 | 0.58 | 2.50 | 1.74 | 1.11 | 0.09 | 0.83 | 11.10 |
| 2007 | 0.13 | 0.75 | 1.18 | 0.80 | 5.42 | 3.32 | 1.25 | 3.26 | 1.77 | 0.83 | 0.13 | 0.23 | 19.07 |
| 2008 | 0.11 | 0.41 | 0.45 | 0.73 | 1.27 | 3.92 | 2.84 | 1.13 | 2.46 | 1.73 | 2.25 | 1.41 | 18.71 |
| 2009 | 0.83 | 0.78 | 2.73 | 0.69 | 2.02 | 7.94 | 3.15 | 0.58 | 1.24 | 2.21 | 0.04 | 0.91 | 23.12 |
| 2010 | 0.70 | 0.63 | 1.06 | 3.08 | 3.05 | 2.48 | 3.01 | 2.74 | 3.60 | 0.68 | 0.75 | 1.40 | 23.18 |
| 2011 | 1.13 | 0.57 | 1.56 | 2.35 | 2.32 | 3.19 | 5.24 | 4.02 | 0.96 | 1.35 | 0.06 | 0.47 | 23.22 |
| 2012 | 0.30 | 0.48 | 0.54 | 1.71 | 1.98 | 2.15 | 2.65 | 2.33 | 0.05 | 1.02 | 1.07 | 0.63 | 14.91 |
| 2013 | 0.25 | 0.34 | 0.83 | 1.81 | 7.37 | 2.71 | 1.63 | 1.37 | 4.36 | 4.73 | 0.09 | 1.26 | 26.75 |
| 2014 | 0.38 | 0.19 | 0.82 | 1.95 | 0.85 | 3.02 | 0.73 | 4.75 | 0.37 | 0.15 | 0.60 | 0.11 | 13.92 |
| POR= 67 YRS | 0.48 | 0.48 | 0.79 | 1.46 | 2.34 | 3.02 | 2.47 | 2.03 | 1.43 | 1.08 | 0.57 | 0.50 | 16.65 |

WBAN : 24011

AVERAGE TEMPERATURE (°F) 2014 BISMARCK (KBIS)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1985 | 6.2 | 13.2 | 31.6 | 46.0 | 59.1 | 59.3 | 69.9 | 64.3 | 53.6 | 44.3 | 14.0 | 9.1 | 39.2 |
| 1986 | 20.1 | 13.8 | 38.8 | 42.3 | 55.9 | 66.5 | 70.1 | 65.5 | 54.3 | 46.1 | 23.5 | 22.3 | 43.3 |
| 1987 | 21.8 | 28.1 | 27.9 | 51.2 | 59.8 | 68.2 | 72.4 | 64.9 | 58.7 | 42.0 | 34.5 | 24.1 | 46.1 |
| 1988 | 8.9 | 14.9 | 30.2 | 45.0 | 61.0 | 75.7 | 73.2 | 69.5 | 56.6 | 43.8 | 29.0 | 18.1 | 43.8 |
| 1989 | 16.0 | 6.3 | 24.8 | 44.3 | 56.2 | 63.7 | 76.3 | 69.6 | 58.6 | 45.3 | 29.2 | 8.2 | 41.5 |
| 1990 | 23.6 | 20.0 | 35.2 | 43.5 | 54.8 | 65.7 | 70.2 | 71.8 | 61.7 | 43.8 | 31.2 | 9.4 | 44.2 |
| 1991 | 8.8 | 28.1 | 32.7 | 46.1 | 57.7 | 68.5 | 71.4 | 73.7 | 58.9 | 40.7 | 23.2 | 25.1 | 44.6 |
| 1992 | 23.3 | 27.1 | 35.0 | 42.1 | 58.1 | 62.7 | 64.0 | 64.2 | 56.5 | 43.9 | 28.8 | 11.8 | 43.1 |
| 1993 | 8.2 | 10.9 | 32.4 | 42.2 | 55.4 | 60.2 | 64.4 | 66.6 | 53.2 | 43.9 | 26.7 | 17.5 | 40.1 |
| 1994 | 0.6 | 4.8 | 32.7 | 43.0 | 60.0 | 65.5 | 67.3 | 67.5 | 61.6 | 48.0 | 31.0 | 16.2 | 41.5 |
| 1995 | 10.4 | 19.2 | 26.0 | 38.9 | 53.3 | 66.1 | 69.4 | 71.4 | 57.2 | 44.6 | 25.1 | 15.0 | 41.4 |
| 1996 | 2.0 | 19.2 | 19.8 | 39.6 | 52.0 | 65.6 | | | | | | | |
| 1997 | 3.7 | 18.9 | 26.1 | 38.6 | 54.8 | 69.1 | 71.9 | 69.7 | 62.1 | 47.7 | 27.2 | 28.2 | 43.2 |
| 1998 | 13.2 | 30.4 | 24.0 | 48.0 | 58.0 | 61.4 | 72.9 | 72.5 | 63.5 | 46.8 | 31.0 | 20.7 | 45.2 |
| 1999 | 8.4 | 24.9 | 35.6 | 43.3 | 56.0 | 64.3 | 71.3 | 69.4 | 55.0 | 45.3 | 38.6 | 25.5 | 44.8 |
| 2000 | 15.2 | 22.6 | 35.7 | 43.6 | 56.6 | 62.7 | 72.0 | 70.9 | 59.7 | 48.8 | 24.1 | 6.8 | 43.2 |
| 2001 | 18.7 | 7.6 | 29.9 | 44.7 | 57.9 | 64.4 | 72.6 | 72.6 | 61.1 | 44.1 | 38.0 | 20.8 | 44.4 |
| 2002 | 19.4 | 25.7 | 18.8 | 40.8 | 50.3 | 68.1 | 74.8 | 69.2 | 61.4 | 36.4 | 32.6 | 22.8 | 43.4 |
| 2003 | 14.5 | 11.8 | 25.1 | 47.0 | 54.1 | 63.7 | 72.5 | 75.6 | 60.2 | 49.4 | 22.2 | 24.0 | 43.3 |
| 2004 | 7.7 | 17.4 | 35.3 | 46.0 | 53.6 | 61.6 | 70.1 | 64.5 | 61.1 | 46.0 | 35.1 | 22.0 | 43.4 |
| 2005 | 9.5 | 24.1 | 32.5 | 48.7 | 53.7 | 67.6 | 72.3 | 68.2 | 61.4 | 46.9 | 33.7 | 19.5 | 44.8 |
| 2006 | 26.8 | 20.1 | 31.4 | 49.9 | 57.5 | 67.8 | 77.3 | 71.6 | 57.0 | 41.6 | 29.9 | 23.5 | 46.2 |
| 2007 | 14.7 | 9.0 | 36.6 | 42.1 | 57.4 | 67.0 | 75.5 | 67.1 | 59.5 | 47.0 | 31.1 | 15.1 | 43.5 |
| 2008 | 11.7 | 14.5 | 30.6 | 41.8 | 53.0 | 62.0 | 72.2 | 71.6 | 59.0 | 45.7 | 31.2 | 6.9 | 41.7 |
| 2009 | 8.7 | 13.6 | 21.6 | 41.2 | 54.3 | 61.5 | 67.0 | 66.8 | 65.0 | 39.5 | 38.1 | 10.6 | 40.7 |
| 2010 | 9.4 | 10.6 | 33.7 | 47.8 | 54.3 | 65.3 | 70.7 | 71.1 | 56.3 | 48.7 | 28.4 | 11.6 | 42.3 |
| 2011 | 8.7 | 12.2 | 21.2 | 40.1 | 52.4 | 62.7 | 71.6 | 69.2 | 57.7 | 49.0 | 31.4 | 25.1 | 41.8 |
| 2012 | 22.7 | 22.2 | 43.3 | 47.1 | 55.2 | 67.2 | 75.7 | 67.7 | 59.0 | 42.8 | 28.6 | 14.9 | 45.5 |
| 2013 | 13.9 | 21.9 | 22.7 | 34.6 | 54.7 | 64.7 | 70.0 | 71.0 | 63.8 | 42.0 | 27.6 | 7.4 | 41.2 |
| 2014 | 13.8 | 9.6 | 27.2 | 41.1 | 55.8 | 63.4 | 68.5 | 68.7 | 60.2 | 47.8 | 21.5 | 19.8 | 41.5 |
| POR= 67 YRS | 9.9 | 16.0 | 27.6 | 43.1 | 55.2 | 64.5 | 70.8 | 69.1 | 58.2 | 45.5 | 29.1 | 16.1 | 42.1 |

HEATING DEGREE DAYS (base 65°F) 2014 BISMARCK (KBIS)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1985-86 | 21 | 85 | 345 | 636 | 1526 | 1731 | 1386 | 1427 | 807 | 673 | 297 | 44 | 8978 |
| 1986-87 | 5 | 65 | 314 | 580 | 1237 | 1319 | 1332 | 1023 | 1144 | 416 | 189 | 36 | 7660 |
| 1987-88 | 10 | 88 | 199 | 708 | 909 | 1260 | 1737 | 1454 | 1071 | 597 | 184 | 16 | 8233 |
| 1988-89 | 1 | 40 | 251 | 651 | 1075 | 1448 | 1513 | 1640 | 1239 | 621 | 274 | 110 | 8863 |
| 1989-90 | 0 | 38 | 218 | 606 | 1066 | 1761 | 1278 | 1256 | 916 | 650 | 318 | 78 | 8185 |
| 1990-91 | 10 | 5 | 173 | 649 | 1006 | 1722 | 1740 | 1028 | 995 | 557 | 253 | 10 | 8148 |
| 1991-92 | 7 | 0 | 236 | 748 | 1247 | 1231 | 1286 | 1093 | 921 | 689 | 248 | 117 | 7823 |
| 1992-93 | 74 | 111 | 256 | 645 | 1077 | 1645 | 1757 | 1513 | 1004 | 678 | 296 | 177 | 9233 |
| 1993-94 | 68 | 52 | 347 | 645 | 1141 | 1466 | 1998 | 1684 | 995 | 651 | 192 | 51 | 9290 |
| 1994-95 | 34 | 64 | 152 | 520 | 1017 | 1508 | 1689 | 1276 | 1204 | 778 | 355 | 84 | 8681 |
| 1995-96 | 13 | 3 | 262 | 627 | 1189 | 1547 | 1953 | 1322 | 1396 | 756 | 399 | 84 | 9551 |
| 1996-97 | 10 | 1 | 249 | 644 | 1126 | 1793 | 1891 | 1283 | 1201 | 786 | 317 | 9 | 9310 |
| 1997-98 | 16 | 34 | 115 | 538 | 1126 | 1134 | 1601 | 962 | 1264 | 502 | 230 | 143 | 7665 |
| 1998-99 | 2 | 3 | 121 | 556 | 1013 | 1368 | 1747 | 1114 | 903 | 646 | 280 | 86 | 7839 |
| 1999-00 | 9 | 21 | 298 | 604 | 787 | 1215 | 1537 | 1223 | 900 | 633 | 256 | 114 | 7597 |
| 2000-01 | 20 | 21 | 196 | 495 | 1219 | 1798 | 1431 | 1601 | 1079 | 613 | 228 | 100 | 8801 |
| 2001-02 | 9 | 5 | 170 | 641 | 802 | 1360 | 1407 | 1095 | 1426 | 718 | 470 | 58 | 8161 |
| 2002-03 | 3 | 30 | 179 | 881 | 965 | 1300 | 1560 | 1483 | 1229 | 537 | 344 | 94 | 8605 |
| 2003-04 | 1 | 16 | 210 | 477 | 1276 | 1266 | 1770 | 1373 | 913 | 564 | 351 | 127 | 8344 |
| 2004-05 | 30 | 83 | 173 | 584 | 889 | 1326 | 1711 | 1141 | 1001 | 482 | 350 | 28 | 7798 |
| 2005-06 | 9 | 21 | 160 | 557 | 931 | 1401 | 1176 | 1251 | 1034 | 449 | 268 | 40 | 7297 |
| 2006-07 | 0 | 0 | 256 | 724 | 1046 | 1281 | 1555 | 1562 | 871 | 680 | 240 | 56 | 8271 |
| 2007-08 | 0 | 57 | 222 | 550 | 1011 | 1541 | 1647 | 1459 | 1058 | 686 | 369 | 114 | 8714 |
| 2008-09 | 7 | 13 | 200 | 587 | 1008 | 1798 | 1739 | 1435 | 1340 | 707 | 330 | 148 | 9312 |
| 2009-10 | 23 | 43 | 80 | 783 | 799 | 1681 | 1720 | 1518 | 963 | 508 | 352 | 65 | 8535 |
| 2010-11 | 7 | 13 | 256 | 499 | 1092 | 1650 | 1738 | 1472 | 1353 | 740 | 382 | 103 | 9305 |
| 2011-12 | 1 | 5 | 221 | 505 | 1002 | 1228 | 1302 | 1235 | 668 | 530 | 302 | 33 | 7032 |
| 2012-13 | 0 | 26 | 206 | 683 | 1082 | 1545 | 1577 | 1203 | 1307 | 907 | 323 | 86 | 8945 |
| 2013-14 | 22 | 6 | 103 | 707 | 1117 | 1775 | 1579 | 1543 | 1164 | 710 | 330 | 94 | 9150 |
| 2014- | 28 | 34 | 188 | 526 | 1296 | 1395 | | | | | | | |

WBAN : 24011

COOLING DEGREE DAYS (base 65°F) 2014 BISMARCK (KBIS)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1985 | 0 | 0 | 0 | 0 | 16 | 26 | 180 | 67 | 8 | 0 | 0 | 0 | 297 |
| 1986 | 0 | 0 | 0 | 0 | 21 | 96 | 169 | 88 | 0 | 0 | 0 | 0 | 374 |
| 1987 | 0 | 0 | 0 | 11 | 33 | 136 | 245 | 92 | 15 | 0 | 0 | 0 | 532 |
| 1988 | 0 | 0 | 0 | 1 | 65 | 340 | 264 | 184 | 6 | 0 | 0 | 0 | 860 |
| 1989 | 0 | 0 | 0 | 4 | 8 | 78 | 359 | 190 | 33 | 0 | 0 | 0 | 672 |
| 1990 | 0 | 0 | 0 | 14 | 9 | 105 | 177 | 224 | 82 | 0 | 0 | 0 | 611 |
| 1991 | 0 | 0 | 0 | 0 | 36 | 122 | 212 | 278 | 61 | 0 | 0 | 0 | 709 |
| 1992 | 0 | 0 | 0 | 9 | 40 | 52 | 50 | 95 | 9 | 0 | 0 | 0 | 255 |
| 1993 | 0 | 0 | 0 | 0 | 7 | 42 | 55 | 110 | 3 | 0 | 0 | 0 | 217 |
| 1994 | 0 | 0 | 0 | 1 | 44 | 70 | 111 | 148 | 58 | 0 | 0 | 0 | 432 |
| 1995 | 0 | 0 | 0 | 0 | 1 | 122 | 154 | 210 | 35 | 0 | 0 | 0 | 522 |
| 1996 | 0 | 0 | 0 | 0 | 2 | 109 | 111 | 211 | 47 | 0 | 0 | 0 | 480 |
| 1997 | 0 | 0 | 0 | 0 | 5 | 138 | 236 | 187 | 35 | 8 | 0 | 0 | 609 |
| 1998 | 0 | 0 | 0 | 0 | 17 | 42 | 253 | 242 | 79 | 0 | 0 | 0 | 633 |
| 1999 | 0 | 0 | 0 | 0 | 7 | 72 | 210 | 165 | 3 | 0 | 0 | 0 | 457 |
| 2000 | 0 | 0 | 0 | 0 | 5 | 51 | 242 | 209 | 42 | 0 | 0 | 0 | 549 |
| 2001 | 0 | 0 | 0 | 10 | 12 | 86 | 252 | 249 | 59 | 0 | 0 | 0 | 668 |
| 2002 | 0 | 0 | 0 | 0 | 26 | 158 | 313 | 168 | 80 | 0 | 0 | 0 | 745 |
| 2003 | 0 | 0 | 0 | 5 | 11 | 61 | 241 | 349 | 70 | 0 | 0 | 0 | 737 |
| 2004 | 0 | 0 | 0 | 0 | 5 | 34 | 198 | 77 | 62 | 3 | 0 | 0 | 379 |
| 2005 | 0 | 0 | 0 | 1 | 12 | 113 | 241 | 128 | 57 | 3 | 0 | 0 | 555 |
| 2006 | 0 | 0 | 0 | 0 | 42 | 128 | 386 | 211 | 24 | 2 | 0 | 0 | 793 |
| 2007 | 0 | 0 | 0 | 0 | 12 | 123 | 334 | 130 | 67 | 0 | 0 | 0 | 666 |
| 2008 | 0 | 0 | 0 | 1 | 0 | 34 | 240 | 223 | 26 | 0 | 0 | 0 | 524 |
| 2009 | 0 | 0 | 0 | 0 | 3 | 49 | 90 | 106 | 83 | 0 | 0 | 0 | 331 |
| 2010 | 0 | 0 | 0 | 0 | 25 | 79 | 187 | 213 | 0 | 3 | 0 | 0 | 507 |
| 2011 | 0 | 0 | 0 | 0 | 0 | 42 | 215 | 143 | 11 | 14 | 0 | 0 | 425 |
| 2012 | 0 | 0 | 0 | 0 | 5 | 104 | 339 | 118 | 33 | 0 | 0 | 0 | 599 |
| 2013 | 0 | 0 | 0 | 0 | 12 | 84 | 185 | 199 | 75 | 0 | 0 | 0 | 555 |
| 2014 | 0 | 0 | 0 | 0 | 51 | 53 | 148 | 154 | 51 | 0 | 0 | 0 | 457 |

SNOWFALL (inches) 2014 BISMARCK (KBIS)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|------|------|------|------|------|------|------|-----|-----|-------|
| 1985-86 | 0.0 | 0.0 | T | 3.2 | 24.2 | 7.1 | 6.1 | 6.5 | 2.4 | 11.7 | T | 0.0 | 61.2 |
| 1986-87 | 0.0 | 0.0 | 0.0 | T | 28.5 | 1.3 | 2.6 | 23.2 | 11.8 | 0.5 | T | 0.0 | 67.9 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.3 | T | 1.2 | 12.1 | 8.2 | 9.2 | 0.5 | 0.0 | 0.0 | 31.5 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.1 | 3.3 | 15.9 | 12.9 | 7.4 | 6.4 | 1.8 | T | T | 47.8 |
| 1989-90 | 0.0 | T | T | 1.7 | 7.6 | 5.1 | 3.7 | 3.6 | 3.5 | 3.1 | 0.8 | T | 29.1 |
| 1990-91 | T | T | 0.0 | 2.5 | T | 10.9 | 4.1 | 5.2 | 4.8 | 8.4 | 6.5 | T | 42.4 |
| 1991-92 | 0.0 | T | T | 23.7 | 7.5 | 1.5 | 7.0 | 9.5 | 5.3 | 3.0 | T | T | 57.5 |
| 1992-93 | 0.0 | 0.0 | 0.0 | 4.8 | 10.5 | 8.5 | 9.0 | 7.9 | 3.3 | T | T | T | 44.0 |
| 1993-94 | T | 0.0 | 0.0 | 0.5 | 29.9 | 14.0 | 14.5 | 12.7 | 11.4 | 8.8 | 0.0 | 0.0 | 91.8 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 16.6 | 7.0 | 12.5 | 8.2 | 20.5 | 2.3 | T | 0.0 | 67.1 |
| 1995-96 | 0.0 | 0.0 | T | 2.5 | 6.1 | 12.1 | 21.3 | 15.2 | 20.0 | 2.9 | T | 0.0 | 80.1 |
| 1996-97 | 0.0 | 0.0 | 0.0 | 5.0 | 25.2 | 13.5 | 15.1 | 9.2 | 16.1 | 17.5 | T | 0.0 | 101.6 |
| 1997-98 | 0.0 | T | 0.0 | 0.4 | 6.3 | 1.7 | 3.3 | 12.1 | 2.8 | T | T | T | 26.6 |
| 1998-99 | 0.0 | T | 0.0 | T | 17.1 | 6.0 | 22.2 | 4.7 | 1.8 | 12.7 | 0.0 | 0.0 | 64.5 |
| 1999-00 | T | T | 0.0 | T | T | 5.4 | 5.7 | 13.4 | 6.0 | 1.4 | T | 0.0 | 31.9 |
| 2000-01 | 0.0 | T | 0.0 | T | 18.0 | 5.5 | 8.8 | 7.5 | 0.1 | 4.3 | 0.0 | T | 44.2 |
| 2001-02 | 0.0 | 0.0 | 0.0 | 0.2 | 1.7 | 2.8 | 5.1 | 3.1 | 16.8 | 4.5 | 2.2 | 0.0 | 36.4 |
| 2002-03 | 0.0 | T | T | 6.8 | 2.0 | 5.3 | 5.2 | 5.1 | 8.0 | 0.8 | 0.0 | 0.0 | 33.2 |
| 2003-04 | 0.0 | 0.0 | 0.0 | 2.8 | 10.2 | 8.3 | 15.3 | 3.3 | 6.3 | T | 0.2 | 0.0 | 46.4 |
| 2004-05 | 0.0 | 0.0 | 0.0 | 0.8 | 0.1 | 2.9 | 4.8 | 2.3 | 7.2 | 0.6 | 0.3 | 0.0 | 19.0 |
| 2005-06 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 12.7 | 3.1 | 4.5 | 5.9 | 0.0 | T | T | 28.0 |
| 2006-07 | 0.0 | T | 0.0 | 3.7 | 0.7 | 11.8 | 2.7 | 14.5 | 2.6 | 10.3 | 0.0 | 0.0 | 46.3 |
| 2007-08 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 4.8 | 3.0 | 8.0 | 2.2 | T | 0.5 | 0.0 | 19.3 |
| 2008-09 | T | 0.0 | T | T | 12.5 | 33.3 | 16.0 | 8.7 | 29.7 | 0.1 | T | 0.0 | 100.3 |
| 2009-10 | T | T | 0.0 | 0.7 | T | 19.1 | 13.8 | 12.6 | 2.9 | 5.3 | 1.0 | 0.0 | 55.4 |
| 2010-11 | 0.0 | 0.0 | T | 3.4 | 10.1 | 21.1 | 18.2 | 5.5 | 13.7 | 13.4 | T | 0.0 | 85.4 |
| 2011-12 | 0.0 | 0.0 | 0.0 | T | 0.6 | 3.4 | 1.9 | 7.2 | 0.5 | T | 0.0 | 0.0 | 13.6 |
| 2012-13 | 0.0 | 0.0 | 0.0 | T | 10.5 | 11.7 | 2.9 | 3.5 | 6.9 | 21.8 | 0.0 | 0.0 | 57.3 |
| 2013-14 | 0.0 | 0.0 | 0.0 | 1.0 | 0.6 | 15.5 | 5.8 | 2.3 | 11.1 | 4.2 | T | 0.0 | 40.5 |
| 2014- | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | 2.4 | | | | | | | |
| POR= 67 YRS | T | T | 0.1 | 1.6 | 6.6 | 8.2 | 8.2 | 7.3 | 8.2 | 4.2 | 0.8 | T | 45.2 |

WBAN : 24011

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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: 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</p> | <p>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. 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
|---|---|

2014 BISMARCK NORTH DAKOTA (KBIS)

Bismarck, the State Capital and County Seat of Burleigh County, is located in south-central North Dakota, near the center of North America. It is on the east bank of the Missouri River in a shallow basin 7 miles wide and 11 miles long.

The Weather Service Forecast Office is located at the Municipal Airport approximately 2 miles southeast of city center. It is almost entirely surrounded by low-lying hills. The closest hills, 3 miles to the north, and other hills 5 miles to the southeast, are about 200 to 300 feet high. West across the Missouri River the land is more hilly and 300 to 600 feet higher.

The climate is semi-arid, typically continental in character, and invigorating. Summers are warm, but there are not many hot days, and very few hot and humid days. Winters tend to be long and quite cold, but there are plenty of mild days to make winter weather pleasant much of the time. Sunshine is abundant, averaging 2,700 hours out of a possible 4,470 hours.

More than 75 percent of annual precipitation falls during the six month period from April through September, and nearly 50 percent during May, June, and July. Snow has been reported in all months except July and August. Three inches or more can be expected on about three days each year.

Most summer precipitation occurs during thunderstorms in the late afternoon and evening. Thunderstorms occur on about 34 days each year, accompanied by hail on two or three of the days. A damaging hailstorm is experienced about once every ten years. Tornadoes are rare, but damaging winds occasionally occur with the heavier thunderstorms.

The winter season usually begins in late November and continues until late March. Winter precipitation is nearly all in the form of snow and is often associated with strong winds and low temperatures. This combination produces winter storms and occasional blizzards that must never be taken lightly. A severe blizzard lasting two or three days may be expected every few years. But several times each winter storms lasting a few hours occur in which drifting snow can make travel difficult and even block roads. A stalled motorist can be in serious trouble if he is not prepared with adequate winter clothing and some kind of emergency provisions. A motorist must never leave his vehicle in a blinding snowstorm as he can easily become lost.

The temperature range from summer to winter is very large and typical of the Northern Great Plains. The average freeze-free period is 134 days, from mid-May to late September.

Station History

BISMARCK, ND

| NAME | Begin Date | End Date | Latitude | Longitude | Elevation Feet | Relocation | Platform |
|-----------------------|------------|------------|----------|-----------|----------------|------------|-------------------|
| BISMARCK MUNICIPAL AP | 1959-11-01 | 1973-01-01 | 46° 46' | -100° 45' | 1647 | | AIRWAYS, COOP |
| BISMARCK MUNICIPAL AP | 1996-05-01 | 1996-05-16 | 46° 46' | -100° 45' | 1647 | | ASOS, COOP, WXSVC |
| BISMARCK MUNICIPAL AP | 1996-07-18 | 2005-11-30 | 46° 46' | -100° 45' | 1651 | | ASOS, COOP, WXSVC |
| BISMARCK MUNICIPAL AP | 1973-01-01 | 1996-05-01 | 46° 46' | -100° 45' | 1647 | | COOP, WXSVC |
| BISMARCK MUNICIPAL AP | 1940-01-01 | 1948-01-01 | 46° 46' | -100° 45' | | | AIRWAYS |
| BISMARCK MUNICIPAL AP | 2005-11-30 | Present | 46° 46' | -100° 45' | 1651 | | ASOS, COOP, WXSVC |
| BISMARCK MUNICIPAL AP | 1939-12-31 | 1940-01-01 | 46° 46' | -100° 45' | | | AIRWAYS, WXSVC |
| BISMARCK MUNICIPAL AP | 1996-07-16 | 1996-07-18 | 46° 46' | -100° 45' | 1651 | .25 MI SE | ASOS, COOP, WXSVC |
| BISMARCK MUNICIPAL AP | 1996-05-16 | 1996-07-16 | 46° 46' | -100° 45' | 1651 | | ASOS, COOP, WXSVC |
| BISMARCK MUNICIPAL AP | 1948-01-01 | 1959-11-01 | 46° 46' | -100° 45' | 1663 | | AIRWAYS, COOP |

Element History

| Element | Begin Date | End Date | Frequency | Time Of Observation | Equipment * | Equipment * Modifications | Equipment Exposure |
|-----------|------------|------------|---------------------|---------------------|-------------|---------------------------|--------------------|
| WIND | 1996-05-01 | 1996-07-16 | HOURLY | UNKN | ANEMCUP | | |
| PRECIP | 1996-07-16 | 2001-03-22 | HOURLY | 2400 | AHTB | RCRD;HTD | |
| PRECIP | 2001-03-22 | 2003-04-30 | HOURLY | 2400 | AHTB | RCRD;HTD | |
| TEMPATOBS | 2003-04-30 | 2007-05-01 | TWICE DAILY - AM/PM | 1700 | FRONTIER | | |
| PRECIP | 2007-05-01 | 2010-10-01 | DAILY | 2400 | PCPNX | | |
| TEMPATOBS | 2001-03-22 | 2003-04-30 | TWICE DAILY - AM/PM | 0800 | FRONTIER | | |
| PRECIP | 1982-01-01 | 1987-09-14 | HOURLY | 2400 | | | |
| WIND | 2001-03-22 | 2003-04-30 | HOURLY | UNKN | ANEMCUP | | |
| PRECIP | 2007-05-01 | 2010-10-01 | HOURLY | 2400 | AHTB | RCRD;HTD | |
| SNOWWTREQ | 2007-05-01 | 2010-10-01 | DAILY | 1200 | SCALE | | |
| TEMPATOBS | 2010-10-01 | 2012-05-08 | TWICE DAILY - AM/PM | 1700 | FRONTIER | | |
| PRECIP | 2010-10-01 | Present | HOURLY | 2400 | AHTB | SHLD;RCRD;HTD | |
| PRECIP | 1995-07-01 | 1996-05-01 | DAILY | 2400 | UNIV | RCRD | |
| TEMP | 1996-07-16 | 2001-03-22 | DAILY | 2400 | HYGR | | |
| TEMPATOBS | 2007-05-01 | 2010-10-01 | TWICE DAILY - AM/PM | 0800 | FRONTIER | | |
| SNOWDPH | 2007-05-01 | 2010-10-01 | DAILY | 0600 | SNOWSTICK | | |
| WIND | 2007-05-01 | 2010-10-01 | HOURLY | UNKN | ANEMSONIC | | |
| TEMP | 2007-05-01 | 2010-10-01 | DAILY | 2400 | ATEMP | | |
| TEMPATOBS | 2010-10-01 | 2012-05-08 | TWICE DAILY - AM/PM | 0800 | FRONTIER | | |
| PRECIP | 1987-09-14 | 1995-07-01 | HOURLY | 2400 | | | |
| PRECIP | 1996-07-16 | 2001-03-22 | DAILY | 2400 | AHTB | RCRD;HTD | |
| TEMPATOBS | 2001-03-22 | 2003-04-30 | TWICE DAILY - AM/PM | 1700 | FRONTIER | | |
| TEMPATOBS | 2003-04-30 | 2007-05-01 | TWICE DAILY - AM/PM | 0800 | FRONTIER | | |
| TEMP | 2003-04-30 | 2007-05-01 | DAILY | 2400 | ATEMP | | |
| TEMPATOBS | 2007-05-01 | 2010-10-01 | TWICE DAILY - AM/PM | 1700 | FRONTIER | | |
| SNOWWTREQ | 2010-10-01 | 2011-11-01 | DAILY | 1200 | SCALE | | |
| WIND | 2010-10-01 | Present | HOURLY | UNKN | ANEMSONIC | | |
| PRECIP | 1939-12-31 | 1982-01-01 | DAILY | 2400 | UNIV | RCRD | |
| PRECIP | 1996-05-01 | 1996-07-16 | HOURLY | 2400 | UNIV | RCRD | |
| PRECIP | 2001-03-22 | 2003-04-30 | DAILY | 2400 | AHTB | RCRD;HTD | |
| PRECIP | 2003-04-30 | 2007-05-01 | DAILY | 2400 | PCPNX | | |
| PRECIP | 2010-10-01 | Present | DAILY | 2400 | PCPNX | SHLD | |
| TEMP | 2010-10-01 | Present | DAILY | 2400 | ATEMP | | |
| TEMP | 1939-12-31 | 1982-01-01 | DAILY | 2400 | | | |
| PRECIP | 1982-01-01 | 1987-09-14 | DAILY | 2400 | UNIV | RCRD | |
| PRECIP | 1987-09-14 | 1995-07-01 | DAILY | 2400 | UNIV | RCRD | |
| PRECIP | 1995-07-01 | 1996-05-01 | HOURLY | 2400 | UNIV | RCRD | |
| PRECIP | 1996-05-01 | 1996-07-16 | DAILY | 2400 | UNIV | RCRD | |
| TEMP | 1996-05-01 | 1996-07-16 | DAILY | 2400 | MXMN | | |
| SNOWDPH | 2001-03-22 | 2003-04-30 | DAILY | 0600 | SNOWSTICK | | |
| SNOWWTREQ | 2001-03-22 | 2003-04-30 | DAILY | 1200 | SCALE | | |
| PRECIP | 2003-04-30 | 2007-05-01 | HOURLY | 2400 | AHTB | RCRD;HTD | |

Element History continued on next page. Also see Station Metadata link below for complete history.

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asos2implementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: www.ncdc.noaa.gov

Element History

BISMARCK, ND

| Element | Begin Date | End Date | Frequency | Time Of Observation | Equipment | Equipment Modifications | Equipment Exposure |
|----------|------------|------------|-----------|---------------------|-----------|-------------------------|--------------------|
| WIND | 2003-04-30 | 2007-05-01 | HOURLY | UNKN | ANEMCUP | | |
| SNOWDPTH | 2010-10-01 | 2011-11-01 | DAILY | 0600 | SNOWSTICK | | |
| TEMP | 1982-01-01 | 1987-09-14 | DAILY | 2400 | | | |
| TEMP | 1987-09-14 | 1995-07-01 | DAILY | 2400 | MXMN | | |
| TEMP | 1995-07-01 | 1996-05-01 | DAILY | 2400 | MXMN | | |
| WIND | 1996-07-16 | 2001-03-22 | HOURLY | UNKN | ANEMCUP | | |
| TEMP | 2001-03-22 | 2003-04-30 | DAILY | 2400 | ATEMP | | |
| SNOWDPTH | 2003-04-30 | 2007-05-01 | DAILY | 0600 | SNOWSTICK | | |