

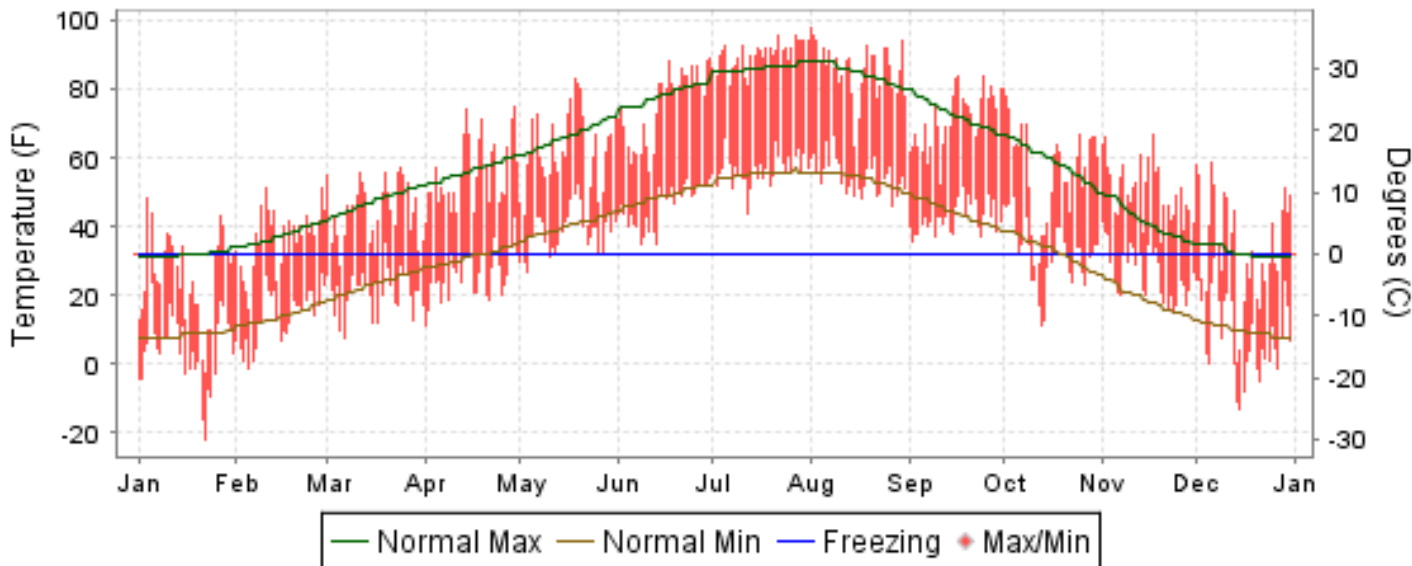


2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

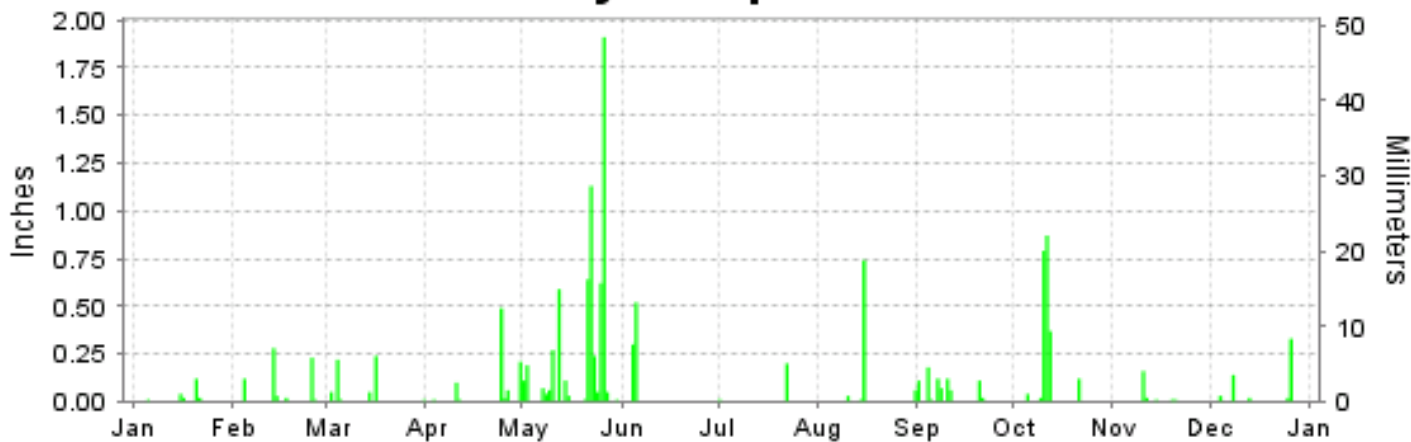
ISSN 0198-5809

LANDER, WYOMING (KLND)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

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 2008

LANDER (KLND)

LATITUDE: 42° 49'N LONGITUDE: -108° 44'W ELEVATION (FT): GRND: 5592 BARO: 5560 TIME ZONE: MOUNTAIN (UTC -7) WBAN: 24021

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 25.6 | 36.7 | 44.8 | 55.8 | 62.5 | 75.4 | 90.1 | 85.9 | 71.3 | 56.7 | 50.5 | 34.4 | 57.5 | |
| | HIGHEST DAILY MAXIMUM | 48 | 51 | 57 | 75 | 83 | 89 | 96 | 98 | 84 | 80 | 67 | 59 | 98 | |
| | DATE OF OCCURRENCE | 04 | 28+ | 24 | 29 | 18 | 30 | 27+ | 01 | 25+ | 01 | 17 | 06 | AUG 01 | |
| | MEAN DAILY MINIMUM | 4.3 | 14.0 | 21.0 | 26.1 | 38.9 | 46.5 | 56.8 | 54.9 | 42.7 | 32.4 | 26.8 | 8.8 | 31.1 | |
| | LOWEST DAILY MINIMUM | -22 | -1 | 8 | 11 | 27 | 35 | 44 | 46 | 36 | 11 | 16 | -13 | -22 | |
| | DATE OF OCCURRENCE | 22 | 05 | 06 | 01 | 03 | 13+ | 12 | 27 | 02 | 13 | 24+ | 15 | JAN 22 | |
| | AVERAGE DRY BULB | 15.0 | 25.4 | 32.9 | 41.0 | 50.7 | 61.0 | 73.5 | 70.4 | 57.0 | 44.6 | 38.7 | 21.6 | 44.3 | |
| | MEAN WET BULB | 12.2 | 21.4 | 26.5 | 31.3 | 42.1 | 48.1 | 54.5 | 52.2 | 44.9 | 36.3 | 31.4 | 17.3 | 34.9 | |
| | MEAN DEW POINT | 3.7 | 12.8 | 14.6 | 14.4 | 33.2 | 35.4 | 38.1 | 35.4 | 32.6 | 26.3 | 21.1 | 8.1 | 23.0 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM >= 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 11 | 0 | 0 | 0 | 0 | 32 |
| | MAXIMUM <= 32° | 20 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 15 | 47 | |
| | MINIMUM <= 32° | 31 | 29 | 30 | 25 | 6 | 0 | 0 | 0 | 0 | 14 | 22 | 31 | 188 | |
| MINIMUM <= 0° | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 19 | | |
| H/C | HEATING DEGREE DAYS | 1544 | 1143 | 987 | 715 | 441 | 158 | 2 | 18 | 235 | 627 | 784 | 1339 | 7993 | |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 5 | 44 | 271 | 193 | 2 | 0 | 0 | 0 | 515 | |
| RH | MEAN (PERCENT) | 60 | 59 | 50 | 38 | 57 | 41 | 32 | 31 | 46 | 54 | 53 | 58 | 48 | |
| | HOUR 05 LST | 64 | 65 | 61 | 53 | 71 | 56 | 46 | 43 | 61 | 64 | 62 | 64 | 59 | |
| | HOUR 11 LST | 56 | 56 | 40 | 26 | 48 | 34 | 24 | 24 | 34 | 44 | 42 | 53 | 40 | |
| | HOUR 17 LST | 61 | 55 | 43 | 29 | 47 | 30 | 21 | 21 | 37 | 50 | 49 | 53 | 41 | |
| | HOUR 23 LST | 61 | 61 | 55 | 46 | 62 | 45 | 35 | 35 | 50 | 61 | 59 | 60 | 53 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY <= 1/4 MI) | 0 | 3 | 3 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | |
| | THUNDERSTORMS | 0 | 0 | 0 | 0 | 7 | 7 | 11 | 6 | 8 | 5 | 0 | 0 | 44 | |
| CLOUDNESS | 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.) | 24.36 | 24.35 | 24.39 | 24.37 | 24.39 | 24.45 | 24.50 | 24.49 | 24.57 | 24.56 | 24.50 | 24.32 | 24.44 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.09 | 29.99 | 29.98 | 29.89 | 29.85 | 29.85 | 29.86 | 29.85 | 30.02 | 30.11 | 30.07 | 29.98 | 29.96 | |
| WINDS | RESULTANT SPEED (MPH) | 1.8 | 1.5 | 3.5 | 3.8 | 2.2 | 3.5 | 2.9 | 2.4 | 1.4 | 1.2 | 1.5 | 1.6 | 2.2 | |
| | RES. DIR. (TENS OF DEGS.) | 25 | 27 | 26 | 25 | 28 | 27 | 27 | 26 | 28 | 28 | 28 | 26 | 27 | |
| | MEAN SPEED (MPH) | 5.3 | 4.8 | 7.6 | 8.2 | 6.6 | 7.1 | 6.9 | 6.5 | 5.2 | 4.5 | 4.9 | 6.0 | 6.1 | |
| | PREVAIL.DIR.(TENS OF DEGS.) | 26 | 25 | 24 | 24 | 24 | 26 | 26 | 23 | 01 | 25 | 26 | 24 | 24 | |
| | MAXIMUM 2-MINUTE WIND | | | | | | | | | | | | | | |
| | SPEED (MPH) | 44 | 44 | 59 | 52 | 54 | 47 | 40 | 31 | 37 | 36 | 36 | 56 | 59 | |
| | DIR. (TENS OF DEGS.) | 21 | 26 | 25 | 24 | 26 | 22 | 21 | 17 | 18 | 30 | 30 | 25 | 25 | |
| | DATE OF OCCURRENCE | 27 | 07 | 29 | 20 | 20 | 24 | 22 | 31 | 20 | 29 | 13 | 30 | MAR 29 | |
| | MAXIMUM 3-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 52 | 55 | 78 | 67 | 63 | 67 | 62 | 41 | 49 | 44 | 48 | 76 | 78 | |
| DIR. (TENS OF DEGS.) | 22 | 26 | 23 | 26 | 26 | 21 | 30 | 33 | 19 | 30 | 31 | 24 | 23 | | |
| DATE OF OCCURRENCE | 27 | 07 | 29 | 20 | 20 | 24 | 26 | 09 | 19 | 29 | 03 | 30 | MAR 29 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.21 | 0.69 | 0.58 | 0.90 | 6.13 | 0.82 | 0.21 | 0.84 | 0.80 | 2.21 | 0.21 | 0.54 | 14.14 | |
| | GREATEST 24-HOUR (IN.) | 0.14 | 0.31 | 0.24 | 0.49 | 1.99 | 0.79 | 0.20 | 0.75 | 0.19 | 1.00 | 0.18 | 0.35 | 1.99 | |
| | DATE OF OCCURRENCE | 20-21 | 13-14 | 16 | 24 | 25-26 | 04-05 | 22 | 14-15 | 07-08 | 11-12 | 10-11 | 25-26 | MAY 25-26 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION 0.01 | 5 | 6 | 6 | 7 | 18 | 2 | 2 | 4 | 9 | 6 | 5 | 5 | 75 | |
| PRECIPITATION 0.10 | 1 | 3 | 2 | 3 | 10 | 2 | 1 | 1 | 5 | 4 | 1 | 2 | 35 | | |
| PRECIPITATION 1.00 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | |
| SNOWFALL | SNOW,ICE PELLETS,HAIL | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 7.0 | 11.0 | 9.2 | 12.3 | 12.7 | 0.0 | 0.0 | 0.0 | 0.0 | 30.2 | 0.1 | 10.5 | 93.0 | |
| | GREATEST 24-HOUR (IN.) | 5.1 | 3.7 | 4.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.5 | 0.1 | 5.6 | 14.5 | |
| | DATE OF OCCURRENCE | 20 | 13 | 04 | 24 | 01 | | | | | 11 | 14 | 26 | OCT 11 | |
| | MAXIMUM SNOW DEPTH (IN.) | 12 | 12 | 7 | 3 | 6 | 0 | 0 | 0 | 0 | 22 | 0 | 5 | 22 | |
| | DATE OF OCCURRENCE | 21 | 14 | 05+ | 24+ | 01 | | | | | 12 | | 26 | OCT 12 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL >= 1.0 | 1 | 4 | 3 | 4 | 4 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 22 | | |

NORMALS, MEANS, AND EXTREMES

LANDER (KLND)

LATITUDE: 42° 49'N
LONGITUDE: -108° 44'W
ELEVATION (FT):
GRND: 5592 BARO: 5560
TIME ZONE:
MOUNTAIN (UTC -7)
WBAN: 24021

| | ELEMENT | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------|---------------------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 31.9 | 37.4 | 47.5 | 56.5 | 66.5 | 78.5 | 86.3 | 84.8 | 73.0 | 59.5 | 41.8 | 32.6 | 58.0 | |
| | MEAN DAILY MAXIMUM | 61 | 31.8 | 37.2 | 45.7 | 56.0 | 66.2 | 77.0 | 86.5 | 84.6 | 73.0 | 59.7 | 42.9 | 33.6 | 57.9 | |
| | HIGHEST DAILY MAXIMUM | 62 | 63 | 68 | 76 | 82 | 93 | 100 | 101 | 101 | 94 | 85 | 70 | 64 | 101 | |
| | YEAR OF OCCURRENCE | | 1971 | 1951 | 1966 | 2007 | 2003 | 1954 | 2006 | 1979 | 1995 | 1963 | 1988 | 1980 | 1980 | JUL 2006 |
| | MEAN OF EXTREME MAXS. | 61 | 52.0 | 55.1 | 64.2 | 74.3 | 82.9 | 91.4 | 95.9 | 94.3 | 88.6 | 77.6 | 62.4 | 53.6 | 74.4 | |
| | NORMAL DAILY MINIMUM | 30 | 8.7 | 13.9 | 23.5 | 31.3 | 40.3 | 48.9 | 55.4 | 54.1 | 44.4 | 33.2 | 18.9 | 9.9 | 31.9 | |
| | MEAN DAILY MINIMUM | 61 | 8.8 | 13.8 | 21.8 | 30.8 | 40.1 | 48.3 | 55.7 | 54.1 | 44.2 | 33.2 | 19.6 | 11.0 | 31.8 | |
| | LOWEST DAILY MINIMUM | 62 | -37 | -28 | -16 | -2 | 18 | 25 | 39 | 35 | 10 | -3 | -18 | -37 | -37 | |
| | YEAR OF OCCURRENCE | | 1963 | 1949 | 1960 | 1973 | 1954 | 1951 | 1993 | 1962 | 1965 | 1991 | 1985 | 1983 | 1983 | DEC 1983 |
| | MEAN OF EXTREME MINS. | 61 | -12.4 | -7.0 | 2.6 | 16.3 | 27.5 | 36.4 | 46.3 | 44.3 | 29.9 | 16.5 | -0.8 | -9.2 | 15.9 | |
| | NORMAL DRY BULB | 30 | 20.3 | 25.6 | 35.5 | 43.9 | 53.4 | 63.7 | 70.9 | 69.4 | 58.7 | 46.4 | 30.3 | 21.3 | 45.0 | |
| | MEAN DRY BULB | 61 | 20.3 | 25.5 | 33.7 | 43.4 | 53.1 | 62.8 | 71.1 | 69.4 | 58.6 | 46.4 | 31.3 | 22.3 | 44.8 | |
| | MEAN WET BULB | 25 | 16.9 | 20.0 | 27.7 | 34.3 | 42.4 | 48.3 | 53.2 | 51.5 | 44.8 | 36.2 | 24.8 | 17.2 | 34.8 | |
| | MEAN DEW POINT | 25 | 11.6 | 14.1 | 20.2 | 25.9 | 33.9 | 39.4 | 43.4 | 41.3 | 35.3 | 27.6 | 18.9 | 12.3 | 27.0 | |
| | NORMAL NO. DAYS WITH: MAXIMUM >= 90 | 30 | 0.0 | 0.0 | 0.0 | 0.0 | * | 2.8 | 10.7 | 7.1 | 0.8 | 0.0 | 0.0 | 0.0 | 21.4 | |
| | MAXIMUM <= 32 | 30 | 15.0 | 9.0 | 3.2 | 0.9 | * | 0.0 | 0.0 | 0.0 | 0.2 | 0.7 | 7.6 | 14.9 | 51.5 | |
| | MINIMUM <= 32 | 30 | 30.7 | 27.7 | 27.3 | 17.1 | 4.2 | 0.3 | 0.0 | 0.0 | 2.6 | 13.6 | 27.4 | 30.5 | 181.4 | |
| MINIMUM <= 0 | 30 | 7.6 | 4.0 | 0.4 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 2.2 | 5.7 | 20.0 | | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 1397 | 1118 | 921 | 643 | 373 | 116 | 16 | 24 | 220 | 580 | 1027 | 1355 | 7790 | |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 0 | 3 | 70 | 190 | 153 | 29 | 0 | 0 | 0 | 445 | |
| RH | NORMAL (PERCENT) | 30 | 66 | 63 | 56 | 52 | 51 | 44 | 40 | 39 | 45 | 52 | 62 | 65 | 53 | |
| | HOUR 05 LST | 30 | 70 | 69 | 67 | 65 | 66 | 60 | 55 | 53 | 58 | 65 | 69 | 69 | 64 | |
| | HOUR 11 LST | 30 | 62 | 58 | 50 | 45 | 43 | 38 | 34 | 33 | 39 | 46 | 57 | 62 | 47 | |
| | HOUR 17 LST | 30 | 61 | 54 | 44 | 40 | 37 | 30 | 26 | 26 | 32 | 40 | 56 | 62 | 42 | |
| | HOUR 23 LST | 30 | 69 | 66 | 60 | 57 | 55 | 47 | 42 | 42 | 48 | 57 | 66 | 68 | 56 | |
| S | PERCENT POSSIBLE SUNSHINE | 50 | 65 | 68 | 70 | 66 | 64 | 72 | 75 | 75 | 72 | 67 | 58 | 61 | 68 | |
| W/O | MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI) | 45 | 1.4 | 1.3 | 0.8 | 1.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 | 0.6 | 0.9 | 1.3 | 8.0 | |
| | THUNDERSTORMS | 60 | 0.0 | 0.1 | 0.2 | 1.3 | 4.9 | 7.7 | 10.3 | 8.3 | 3.3 | 0.7 | 0.0 | 0.0 | 36.8 | |
| CLOUDNESS | MEAN: SUNRISE-SUNSET (OKTAS) | 50 | 4.9 | 4.9 | 5.0 | 5.0 | 5.1 | 4.1 | 3.4 | 3.4 | 3.5 | 4.0 | 4.8 | 4.4 | 4.4 | |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 32 | 4.3 | 4.3 | 4.7 | 5.0 | 4.8 | 3.9 | 3.3 | 3.2 | 3.3 | 3.8 | 4.4 | 4.0 | 4.1 | |
| | MEAN NO. DAYS WITH: CLEAR | 50 | 7.9 | 7.0 | 7.0 | 5.9 | 6.3 | 10.4 | 13.5 | 13.0 | 13.4 | 11.4 | 7.6 | 9.6 | 113.0 | |
| | PARTLY CLOUDY | 50 | 9.9 | 9.6 | 9.9 | 10.1 | 10.7 | 10.8 | 11.3 | 11.6 | 8.6 | 9.1 | 9.7 | 9.6 | 120.9 | |
| | CLOUDY | 50 | 13.2 | 11.7 | 14.1 | 14.0 | 13.8 | 8.8 | 5.7 | 5.9 | 7.6 | 9.9 | 12.3 | 11.8 | 128.8 | |
| PR | MEAN STATION PRESSURE(IN) | 25 | 24.44 | 24.42 | 24.40 | 24.40 | 24.42 | 24.47 | 24.55 | 24.55 | 24.53 | 24.50 | 24.46 | 24.45 | 24.47 | |
| | MEAN SEA-LEVEL PRES. (IN) | 25 | 30.13 | 30.07 | 29.97 | 29.90 | 29.87 | 29.86 | 29.91 | 29.93 | 29.96 | 30.01 | 30.08 | 30.13 | 29.99 | |
| WINDS | MEAN SPEED (MPH) | 25 | 5.1 | 5.2 | 6.6 | 7.4 | 7.5 | 7.6 | 7.2 | 7.0 | 6.5 | 5.7 | 5.3 | 5.0 | 6.3 | |
| | PREVAIL.DIR(TENS OF DEGS) | 33 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | |
| | MAXIMUM 2-MINUTE: SPEED (MPH) | 12 | 45 | 64 | 68 | 52 | 54 | 53 | 60 | 53 | 52 | 59 | 45 | 56 | 68 | |
| | DIR. (TENS OF DEGS) | | 24 | 26 | 23 | 24 | 26 | 19 | 22 | 24 | 20 | 22 | 25 | 25 | 23 | |
| | YEAR OF OCCURRENCE | | 2007 | 2003 | 1999 | 2008 | 2008 | 1999 | 2007 | 2003 | 2000 | 2007 | 2006 | 2008 | MAR 1999 | |
| | MAXIMUM 3-SECOND SPEED (MPH) | 12 | 56 | 77 | 84 | 69 | 70 | 67 | 74 | 62 | 69 | 74 | 59 | 76 | 84 | |
| | DIR. (TENS OF DEGS) | | 26 | 25 | 24 | 19 | 22 | 21 | 21 | 23 | 18 | 22 | 25 | 24 | 24 | |
| | YEAR OF OCCURRENCE | | 2007 | 2003 | 1999 | 2006 | 2001 | 2008 | 2007 | 2003 | 2000 | 2007 | 2006 | 2008 | MAR 1999 | |
| PRECIPITATION | NORMAL (IN) | 30 | 0.52 | 0.54 | 1.24 | 2.07 | 2.38 | 1.15 | 0.84 | 0.57 | 1.14 | 1.37 | 0.99 | 0.61 | 13.42 | |
| | MAXIMUM MONTHLY (IN) | 62 | 1.65 | 2.18 | 3.44 | 6.44 | 6.13 | 6.88 | 2.50 | 2.38 | 4.68 | 4.90 | 3.37 | 2.02 | 6.88 | |
| | YEAR OF OCCURRENCE | | 1949 | 1955 | 1998 | 1999 | 2008 | 1947 | 1977 | 2004 | 1973 | 1994 | 1983 | 1997 | JUN 1947 | |
| | MINIMUM MONTHLY (IN) | 62 | T | T | 0.02 | 0.19 | 0.06 | T | 0.05 | T | 0.01 | T | 0.01 | 0.03 | T | |
| | YEAR OF OCCURRENCE | | 1952 | 1970 | 2004 | 2007 | 2006 | 1971 | 1963 | 1970 | 1992 | 1988 | 1949 | 1954 | OCT 1988 | |
| | MAXIMUM IN 24 HOURS (IN) | 62 | 0.81 | 0.95 | 1.28 | 2.22 | 2.75 | 3.56 | 2.13 | 2.25 | 2.21 | 1.87 | 1.38 | 1.25 | 3.56 | |
| | YEAR OF OCCURRENCE | | 1963 | 2004 | 1977 | 1999 | 1964 | 1947 | 1977 | 2004 | 1973 | 1994 | 1983 | 1985 | JUN 1947 | |
| | NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01 | 30 | 4.6 | 4.9 | 7.4 | 8.5 | 9.0 | 5.8 | 6.2 | 5.5 | 5.8 | 5.7 | 5.7 | 4.6 | 73.7 | |
| | PRECIPITATION >= 1.00 | 30 | 0.0 | 0.0 | 0.1 | 0.2 | 0.5 | 0.3 | 0.1 | * | 0.2 | 0.2 | 0.0 | 0.0 | 1.6 | |
| SNOWFALL | NORMAL (IN) | 30 | 9.9 | 9.2 | 17.6 | 19.9 | 7.1 | 0.3 | 0.0 | 0.0 | 3.0 | 8.7 | 16.0 | 11.2 | 102.9 | |
| | MAXIMUM MONTHLY (IN) | 61 | 26.5 | 43.8 | 52.0 | 70.4 | 33.9 | 18.4 | T | T | 32.9 | 39.9 | 48.7 | 34.6 | 70.4 | |
| | YEAR OF OCCURRENCE | | 1962 | 1955 | 1977 | 1999 | 1975 | 1947 | 1995 | 1992 | 1982 | 1971 | 1983 | 2007 | APR 1999 | |
| | MAXIMUM IN 24 HOURS (IN) | 61 | 13.8 | 21.0 | 20.3 | 28.6 | 20.8 | 18.4 | T | T | 16.9 | 19.4 | 23.1 | 20.5 | 28.6 | |
| | YEAR OF OCCURRENCE' | | 1980 | 1987 | 1973 | 1999 | 1975 | 1947 | 1995 | 1992 | 1982 | 1966 | 1958 | 1985 | APR 1999 | |
| | MAXIMUM SNOW DEPTH (IN) | 49 | 23 | 23 | 27 | 26 | 18 | 9 | 0 | 0 | 13 | 22 | 21 | 28 | 28 | |
| | YEAR OF OCCURRENCE | | 1984 | 1984 | 1973 | 1973 | 1975 | 1951 | | | 1965 | 2008 | 1983 | 1985 | DEC 1985 | |
| | NORMAL NO. DAYS WITH: SNOWFALL >= 1.0 | 30 | 2.4 | 2.5 | 3.9 | 4.2 | 1.3 | 0.1 | 0.0 | 0.0 | 0.9 | 2.1 | 3.7 | 2.6 | 23.7 | |

PRECIPITATION (inches) 2008 LANDER (KLND)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1979 | 0.75 | 0.05 | 0.56 | 1.69 | 3.00 | 0.83 | 0.18 | 2.30 | 0.01 | 0.48 | 0.57 | 1.09 | 11.51 |
| 1980 | 0.95 | 0.54 | 1.50 | 1.68 | 3.32 | 0.05 | 0.31 | 0.27 | 0.07 | 1.41 | 0.70 | 0.22 | 11.02 |
| 1981 | 0.67 | 0.27 | 1.98 | 1.11 | 3.20 | 0.04 | 0.88 | 0.92 | 0.61 | 0.61 | 0.05 | 0.05 | 10.39 |
| 1982 | 0.44 | 0.16 | 0.44 | 0.76 | 1.65 | 1.35 | 1.46 | 0.32 | 3.83 | 0.82 | 0.59 | 1.44 | 13.26 |
| 1983 | 0.08 | 0.49 | 2.11 | 3.34 | 3.02 | 1.21 | 0.20 | 0.32 | 0.50 | 0.57 | 3.37 | 0.60 | 15.81 |
| 1984 | 0.95 | 1.16 | 0.80 | 3.61 | 0.27 | 1.48 | 1.54 | 1.21 | 1.04 | 0.58 | 0.48 | 0.07 | 13.19 |
| 1985 | 0.45 | 0.26 | 0.48 | 0.83 | 0.83 | 1.70 | 1.00 | 0.07 | 1.74 | 0.16 | 1.55 | 1.62 | 10.69 |
| 1986 | 0.30 | 1.04 | 0.49 | 2.15 | 1.79 | 0.27 | 0.89 | 0.64 | 0.44 | 2.83 | 1.10 | 0.22 | 12.16 |
| 1987 | 0.79 | 1.73 | 2.24 | 1.36 | 2.37 | 1.39 | 0.49 | 1.50 | 0.30 | 0.94 | 1.20 | 0.72 | 15.03 |
| 1988 | 0.05 | 0.37 | 1.38 | 0.93 | 1.95 | 0.20 | 0.33 | 0.66 | 0.91 | T | 0.13 | 0.72 | 7.63 |
| 1989 | 0.04 | 0.76 | 0.37 | 1.13 | 5.30 | 2.72 | 0.27 | 0.80 | 2.19 | 1.21 | 0.32 | 0.39 | 15.50 |
| 1990 | 0.02 | 0.12 | 1.55 | 1.90 | 0.42 | 0.36 | 1.88 | 0.39 | 1.50 | 0.75 | 2.27 | 0.41 | 11.57 |
| 1991 | 0.41 | 0.75 | 0.39 | 2.83 | 4.50 | 0.73 | 0.91 | 0.14 | 0.43 | 1.35 | 1.98 | 0.28 | 14.70 |
| 1992 | 0.51 | 0.17 | 1.95 | 0.21 | 3.27 | 1.39 | 2.22 | 0.57 | 0.01 | 0.49 | 1.61 | 0.82 | 13.22 |
| 1993 | 1.00 | 0.34 | 1.47 | 1.90 | 1.79 | 4.96 | 0.83 | 0.46 | 0.42 | 1.34 | 1.62 | 0.41 | 16.54 |
| 1994 | 1.10 | 0.24 | 1.22 | 1.76 | 0.07 | 0.31 | 0.12 | 0.47 | 0.47 | 4.90 | 1.00 | 0.26 | 11.92 |
| 1995 | 0.66 | 0.87 | 0.60 | 3.33 | 5.47 | 2.59 | 1.29 | 0.24 | 1.45 | 1.38 | 1.43 | 0.37 | 19.68 |
| 1996 | 0.67 | 0.55 | 1.62 | 0.65 | 2.51 | 0.39 | .10 | .08 | 2.23 | 1.28 | 1.15 | .27 | 11.50 |
| 1997 | 0.67 | 0.69 | 0.92 | 2.39 | 2.22 | 1.00 | 1.16 | 0.82 | 1.21 | 0.94 | 0.61 | 2.02 | 14.65 |
| 1998 | 0.13 | 0.60 | 3.44 | 1.17 | 0.81 | 3.71 | 0.91 | 0.54 | 1.37 | 3.28 | 1.33 | 0.24 | 17.53 |
| 1999 | 0.10 | 0.65 | 0.71 | 6.44 | 0.97 | 1.09 | 0.11 | 0.58 | 2.01 | 0.65 | 0.03 | 0.15 | 13.49 |
| 2000 | 0.02 | 0.25 | 0.76 | 1.71 | 1.71 | 0.66 | 0.20 | 0.43 | 1.03 | 1.13 | 0.48 | 0.23 | 8.61 |
| 2001 | 0.14 | 0.54 | 0.42 | 1.07 | 0.50 | 0.19 | 0.07 | 0.45 | 1.29 | 0.09 | 0.45 | 0.17 | 5.38 |
| 2002 | 0.28 | 0.20 | 0.61 | 1.27 | 1.68 | 0.25 | 0.98 | 0.07 | 0.37 | 1.72 | 0.48 | 0.18 | 8.09 |
| 2003 | 0.32 | 1.10 | 0.95 | 0.88 | 1.28 | 1.70 | 0.43 | 0.74 | 1.06 | 0.91 | 0.07 | 0.82 | 10.26 |
| 2004 | 0.10 | 1.54 | 0.02 | 3.48 | 0.67 | 1.68 | 1.12 | 2.38 | 1.08 | 1.22 | 0.40 | 0.18 | 13.87 |
| 2005 | 0.80 | 0.05 | 0.94 | 1.66 | 4.34 | 0.31 | 0.36 | 0.54 | 0.41 | 1.88 | 0.41 | 0.39 | 12.09 |
| 2006 | 0.14 | 0.89 | 0.74 | 1.25 | 0.06 | 0.03 | 0.15 | 0.29 | 1.30 | 1.81 | 0.42 | 0.34 | 7.42 |
| 2007 | 0.67 | 0.18 | 1.70 | 0.19 | 1.93 | 0.63 | 0.77 | 0.78 | 0.66 | 0.94 | 0.17 | 1.77 | 10.39 |
| 2008 | 0.21 | 0.69 | 0.58 | 0.90 | 6.13 | 0.82 | 0.21 | 0.84 | 0.80 | 2.21 | 0.21 | 0.54 | 14.14 |
| POR= 61 YRS | 0.48 | 0.61 | 1.12 | 1.98 | 2.43 | 1.35 | 0.73 | 0.53 | 1.03 | 1.25 | 0.81 | 0.54 | 12.86 |

WBAN : 24021

AVERAGE TEMPERATURE (°F) 2008 LANDER (KLND)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1979 | 1.3 | 20.3 | 33.8 | 44.1 | 51.4 | 62.9 | 70.7 | 66.5 | 63.8 | 49.8 | 26.0 | 24.9 | 43.0 |
| 1980 | 14.0 | 25.3 | 32.5 | 45.0 | 52.2 | 64.1 | 72.2 | 66.5 | 59.9 | 47.1 | 31.2 | 34.3 | 45.4 |
| 1981 | 28.5 | 27.2 | 39.3 | 48.4 | 52.4 | 64.8 | 71.2 | 69.7 | 62.3 | 43.7 | 37.7 | 27.1 | 47.7 |
| 1982 | 22.1 | 25.4 | 35.8 | 41.3 | 51.9 | 61.0 | 70.6 | 73.3 | 55.2 | 44.3 | 29.5 | 18.3 | 44.1 |
| 1983 | 26.3 | 28.1 | 36.2 | 37.9 | 48.6 | 61.5 | 70.0 | 74.0 | 60.9 | 49.0 | 28.2 | 6.1 | 43.9 |
| 1984 | 16.1 | 20.4 | 31.1 | 40.3 | 55.9 | 63.2 | 73.3 | 72.4 | 55.1 | 41.5 | 32.2 | 20.5 | 43.5 |
| 1985 | 16.2 | 24.5 | 36.0 | 48.3 | 59.1 | 65.4 | 73.7 | 67.1 | 53.2 | 45.4 | 17.8 | 16.1 | 43.6 |
| 1986 | 22.0 | 24.6 | 44.1 | 44.9 | 52.5 | 68.2 | 68.7 | 69.8 | 55.2 | 45.9 | 31.2 | 18.8 | 45.5 |
| 1987 | 16.9 | 28.1 | 32.2 | 50.7 | 57.5 | 65.9 | 70.3 | 66.7 | 60.7 | 48.5 | 30.2 | 20.6 | 45.7 |
| 1988 | 19.1 | 29.7 | 33.2 | 48.8 | 55.6 | 72.5 | 75.3 | 70.9 | 58.7 | 53.6 | 34.7 | 20.6 | 47.7 |
| 1989 | 24.8 | 10.5 | 38.5 | 47.5 | 53.8 | 61.4 | 74.0 | 68.0 | 58.5 | 46.0 | 35.3 | 22.0 | 45.0 |
| 1990 | 29.1 | 28.7 | 37.0 | 46.4 | 52.5 | 65.1 | 70.7 | 70.9 | 64.8 | 47.2 | 33.4 | 13.3 | 46.6 |
| 1991 | 18.9 | 33.9 | 37.6 | 41.5 | 52.2 | 64.3 | 72.2 | 71.5 | 60.0 | 46.4 | 26.7 | 20.8 | 45.5 |
| 1992 | 20.6 | 33.1 | 41.6 | 50.7 | 57.3 | 63.3 | 65.7 | 68.1 | 60.2 | 50.1 | 28.9 | 15.9 | 46.3 |
| 1993 | 11.4 | 11.0 | 33.3 | 43.6 | 55.8 | 58.7 | 64.7 | 66.1 | 57.2 | 45.7 | 24.6 | 24.3 | 41.4 |
| 1994 | 28.7 | 21.7 | 38.7 | 46.2 | 60.5 | 67.0 | 71.2 | 71.7 | 62.8 | 43.6 | 29.2 | 29.0 | 47.5 |
| 1995 | 20.3 | 31.3 | 37.2 | 41.7 | 48.7 | 59.5 | 69.0 | 71.8 | 59.3 | 43.7 | 38.0 | 27.6 | 45.7 |
| 1996 | 19.9 | 27.7 | 31.2 | 44.6 | 51.7 | 65.9 | 72.7 | 71.5 | 57.6 | 45.4 | 34.8 | 26.1 | 45.8 |
| 1997 | 22.0 | 26.5 | 37.2 | 37.3 | 54.1 | 63.9 | 68.6 | 68.8 | 60.4 | 45.3 | 31.2 | 15.4 | 44.2 |
| 1998 | 23.6 | 25.5 | 29.2 | 42.9 | 53.7 | 54.8 | 72.0 | 70.0 | 63.4 | 45.7 | 34.5 | 23.6 | 44.9 |
| 1999 | 29.4 | 31.9 | 39.2 | 37.3 | 50.7 | 60.3 | 70.7 | 70.7 | 55.0 | 48.1 | 41.3 | 29.3 | 47.0 |
| 2000 | 27.6 | 33.1 | 37.0 | 47.3 | 55.9 | 63.0 | 73.4 | 72.9 | 57.4 | 45.7 | 16.0 | 18.6 | 45.7 |
| 2001 | 18.0 | 18.6 | 36.1 | 45.8 | 56.4 | 65.9 | 74.4 | 72.9 | 63.1 | 47.1 | 35.5 | 21.6 | 46.3 |
| 2002 | 21.9 | 24.7 | 28.0 | 43.5 | 52.2 | 66.4 | 74.9 | 67.3 | 60.0 | 39.4 | 29.5 | 21.7 | 44.1 |
| 2003 | 28.3 | 18.1 | 36.6 | 47.7 | 54.4 | 60.6 | 76.0 | 73.5 | 56.8 | 50.4 | 24.4 | 25.3 | 46.0 |
| 2004 | 19.2 | 23.0 | 38.0 | 44.5 | 53.2 | 61.1 | 68.7 | 66.2 | 58.7 | 46.9 | 32.3 | 27.0 | 44.9 |
| 2005 | 23.7 | 30.3 | 37.1 | 44.2 | 52.2 | 61.6 | 74.2 | 68.1 | 60.5 | 48.4 | 35.4 | 20.9 | 46.4 |
| 2006 | 30.3 | 23.7 | 34.3 | 47.2 | 56.5 | 68.8 | 75.9 | 70.2 | 56.6 | 44.1 | 35.6 | 26.3 | 47.5 |
| 2007 | 14.5 | 29.9 | 42.2 | 45.0 | 54.7 | 66.9 | 75.7 | 71.7 | 59.5 | 47.8 | 35.6 | 15.8 | 46.6 |
| 2008 | 15.0 | 25.4 | 32.9 | 41.0 | 50.7 | 61.0 | 73.5 | 70.4 | 57.0 | 44.6 | 38.7 | 21.6 | 44.3 |
| POR= 61 YRS | 20.3 | 25.5 | 33.7 | 43.4 | 53.1 | 62.8 | 71.1 | 69.4 | 58.6 | 46.4 | 31.3 | 22.3 | 44.8 |

HEATING DEGREE DAYS (base 65°F) 2008 LANDER (KLND)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1979-80 | 0 | 61 | 84 | 463 | 1164 | 1234 | 1578 | 1145 | 1000 | 595 | 390 | 94 | 7808 |
| 1980-81 | 0 | 43 | 166 | 550 | 1005 | 943 | 1124 | 1051 | 789 | 487 | 383 | 83 | 6624 |
| 1981-82 | 18 | 15 | 104 | 655 | 812 | 1170 | 1324 | 1100 | 898 | 702 | 400 | 164 | 7362 |
| 1982-83 | 12 | 0 | 329 | 632 | 1058 | 1440 | 1194 | 1027 | 884 | 804 | 508 | 125 | 8013 |
| 1983-84 | 26 | 0 | 159 | 490 | 1096 | 1826 | 1510 | 1287 | 1046 | 736 | 290 | 135 | 8601 |
| 1984-85 | 0 | 0 | 316 | 721 | 977 | 1372 | 1507 | 1132 | 890 | 493 | 181 | 84 | 7673 |
| 1985-86 | 4 | 41 | 363 | 602 | 1413 | 1507 | 1329 | 1126 | 641 | 596 | 385 | 26 | 8033 |
| 1986-87 | 10 | 5 | 288 | 584 | 1006 | 1424 | 1486 | 1026 | 1008 | 425 | 239 | 46 | 7547 |
| 1987-88 | 14 | 50 | 146 | 501 | 1038 | 1372 | 1417 | 1018 | 981 | 481 | 296 | 15 | 7329 |
| 1988-89 | 1 | 7 | 217 | 347 | 905 | 1371 | 1239 | 1525 | 816 | 522 | 342 | 154 | 7446 |
| 1989-90 | 0 | 20 | 204 | 581 | 886 | 1329 | 1105 | 1011 | 860 | 552 | 382 | 123 | 7053 |
| 1990-91 | 22 | 0 | 95 | 545 | 939 | 1599 | 1422 | 865 | 844 | 696 | 391 | 62 | 7480 |
| 1991-92 | 7 | 1 | 179 | 572 | 1143 | 1361 | 1369 | 919 | 716 | 425 | 240 | 93 | 7025 |
| 1992-93 | 50 | 53 | 150 | 457 | 1075 | 1514 | 1658 | 1509 | 976 | 635 | 278 | 206 | 8561 |
| 1993-94 | 76 | 33 | 233 | 590 | 1205 | 1256 | 1117 | 1206 | 806 | 560 | 144 | 53 | 7279 |
| 1994-95 | 11 | 9 | 98 | 655 | 1066 | 1108 | 1380 | 938 | 853 | 692 | 496 | 189 | 7495 |
| 1995-96 | 14 | 0 | 219 | 653 | 801 | 1154 | 1389 | 1073 | 1038 | 605 | 407 | 37 | 7390 |
| 1996-97 | 0 | 1 | 255 | 602 | 900 | 1200 | 1326 | 1074 | 854 | 823 | 331 | 73 | 7439 |
| 1997-98 | 30 | 32 | 165 | 603 | 1007 | 1533 | 1279 | 1099 | 1103 | 658 | 339 | 303 | 8151 |
| 1998-99 | 1 | 2 | 126 | 592 | 905 | 1276 | 1096 | 920 | 790 | 827 | 436 | 150 | 7121 |
| 1999-00 | 6 | 4 | 296 | 516 | 703 | 1098 | 1152 | 917 | 861 | 525 | 283 | 99 | 6460 |
| 2000-01 | 0 | 7 | 249 | 590 | 1463 | 1433 | 1450 | 1294 | 890 | 569 | 264 | 97 | 8306 |
| 2001-02 | 0 | 0 | 113 | 549 | 878 | 1338 | 1326 | 1121 | 1142 | 641 | 401 | 79 | 7588 |
| 2002-03 | 1 | 28 | 188 | 788 | 1058 | 1334 | 1132 | 1308 | 876 | 512 | 354 | 151 | 7730 |
| 2003-04 | 0 | 21 | 258 | 447 | 1211 | 1224 | 1415 | 1212 | 830 | 608 | 362 | 137 | 7725 |
| 2004-05 | 28 | 55 | 209 | 554 | 973 | 1171 | 1274 | 966 | 858 | 616 | 390 | 168 | 7262 |
| 2005-06 | 4 | 35 | 177 | 507 | 881 | 1360 | 1069 | 1152 | 942 | 526 | 280 | 14 | 6947 |
| 2006-07 | 0 | 14 | 254 | 641 | 877 | 1192 | 1557 | 975 | 700 | 593 | 316 | 70 | 7189 |
| 2007-08 | 0 | 7 | 202 | 525 | 877 | 1520 | 1544 | 1143 | 987 | 715 | 441 | 158 | 8119 |
| 2008- | 2 | 18 | 235 | 627 | 784 | 1339 | | | | | | | |

WBAN : 24021

COOLING DEGREE DAYS (base 65°F) 2008 LANDER (KLND)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1979 | 0 | 0 | 0 | 0 | 2 | 81 | 185 | 113 | 55 | 0 | 0 | 0 | 436 |
| 1980 | 0 | 0 | 0 | 0 | 3 | 74 | 231 | 97 | 19 | 0 | 0 | 0 | 424 |
| 1981 | 0 | 0 | 0 | 0 | 0 | 83 | 219 | 166 | 29 | 0 | 0 | 0 | 497 |
| 1982 | 0 | 0 | 0 | 0 | 1 | 51 | 188 | 266 | 41 | 0 | 0 | 0 | 547 |
| 1983 | 0 | 0 | 0 | 0 | 5 | 27 | 188 | 286 | 42 | 0 | 0 | 0 | 548 |
| 1984 | 0 | 0 | 0 | 0 | 13 | 87 | 264 | 237 | 26 | 0 | 0 | 0 | 627 |
| 1985 | 0 | 0 | 0 | 0 | 8 | 102 | 284 | 113 | 16 | 0 | 0 | 0 | 523 |
| 1986 | 0 | 0 | 0 | 0 | 6 | 131 | 131 | 159 | 1 | 0 | 0 | 0 | 428 |
| 1987 | 0 | 0 | 0 | 4 | 15 | 81 | 188 | 105 | 22 | 0 | 0 | 0 | 415 |
| 1988 | 0 | 0 | 0 | 0 | 9 | 248 | 329 | 196 | 33 | 0 | 0 | 0 | 815 |
| 1989 | 0 | 0 | 0 | 0 | 3 | 51 | 284 | 120 | 16 | 0 | 0 | 0 | 474 |
| 1990 | 0 | 0 | 0 | 0 | 0 | 133 | 204 | 189 | 97 | 0 | 0 | 0 | 623 |
| 1991 | 0 | 0 | 0 | 0 | 0 | 50 | 238 | 209 | 34 | 0 | 0 | 0 | 531 |
| 1992 | 0 | 0 | 0 | 2 | 10 | 49 | 79 | 154 | 13 | 0 | 0 | 0 | 307 |
| 1993 | 0 | 0 | 0 | 0 | 1 | 24 | 74 | 74 | 7 | 0 | 0 | 0 | 180 |
| 1994 | 0 | 0 | 0 | 0 | 10 | 121 | 211 | 223 | 37 | 0 | 0 | 0 | 602 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 29 | 148 | 218 | 55 | 0 | 0 | 0 | 450 |
| 1996 | 0 | 0 | 0 | 0 | 1 | 74 | 248 | 210 | 40 | 1 | 0 | 0 | 574 |
| 1997 | 0 | 0 | 0 | 0 | 1 | 49 | 150 | 158 | 34 | 0 | 0 | 0 | 392 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 3 | 226 | 164 | 86 | 0 | 0 | 0 | 479 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 19 | 190 | 187 | 3 | 0 | 0 | 0 | 399 |
| 2000 | 0 | 0 | 0 | 0 | 9 | 46 | 264 | 259 | 30 | 0 | 0 | 0 | 608 |
| 2001 | 0 | 0 | 0 | 0 | 7 | 129 | 298 | 253 | 64 | 0 | 0 | 0 | 751 |
| 2002 | 0 | 0 | 0 | 0 | 13 | 129 | 316 | 105 | 43 | 0 | 0 | 0 | 606 |
| 2003 | 0 | 0 | 0 | 0 | 33 | 26 | 345 | 289 | 17 | 0 | 0 | 0 | 710 |
| 2004 | 0 | 0 | 0 | 0 | 5 | 23 | 147 | 101 | 26 | 0 | 0 | 0 | 302 |
| 2005 | 0 | 0 | 0 | 0 | 2 | 73 | 293 | 136 | 49 | 0 | 0 | 0 | 553 |
| 2006 | 0 | 0 | 0 | 0 | 23 | 135 | 344 | 182 | 10 | 0 | 0 | 0 | 694 |
| 2007 | 0 | 0 | 0 | 0 | 3 | 134 | 338 | 222 | 43 | 0 | 0 | 0 | 740 |
| 2008 | 0 | 0 | 0 | 0 | 5 | 44 | 271 | 193 | 2 | 0 | 0 | 0 | 515 |

SNOWFALL (inches) 2008 LANDER (KLND)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|------|------|------|------|------|------|------|------|------|-----|-------|
| 1979-80 | 0.0 | 0.0 | 0.0 | 5.3 | 10.0 | 20.4 | 26.2 | 10.6 | 25.4 | 12.6 | 13.9 | 0.0 | 124.4 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 8.9 | 11.1 | 4.1 | 15.0 | 6.1 | 15.6 | 6.8 | T | 0.0 | 67.6 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.2 | 1.8 | 1.7 | 8.1 | 2.8 | 7.4 | 7.7 | 12.1 | 0.0 | 41.8 |
| 1982-83 | 0.0 | 0.0 | 32.9 | 3.1 | 11.2 | 22.6 | 1.3 | 4.8 | 24.1 | 43.3 | 22.4 | 0.0 | 165.7 |
| 1983-84 | 0.0 | 0.0 | 1.9 | 1.2 | 48.7 | 11.9 | 18.0 | 17.4 | 16.3 | 45.4 | 1.1 | 0.0 | 161.9 |
| 1984-85 | 0.0 | 0.0 | 3.5 | 10.4 | 8.7 | 2.3 | 9.1 | 4.7 | 8.6 | 8.4 | 0.0 | 0.0 | 55.7 |
| 1985-86 | 0.0 | 0.0 | 7.6 | 2.2 | 32.3 | 28.0 | 4.9 | 13.8 | 5.7 | 14.4 | 11.3 | 0.0 | 120.2 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 11.9 | 17.5 | 5.3 | 14.1 | 32.7 | 26.7 | 17.5 | T | 0.0 | 125.7 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 1.0 | 13.7 | 14.4 | 1.1 | 6.2 | 30.7 | 5.0 | 3.9 | 0.0 | 76.0 |
| 1988-89 | 0.0 | 0.0 | 0.4 | 0.0 | 3.2 | 13.3 | 0.6 | 14.3 | 6.7 | 11.1 | T | 0.0 | 49.6 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 16.9 | 4.3 | 8.6 | 0.6 | 2.9 | 20.9 | 2.8 | 2.5 | 0.0 | 59.5 |
| 1990-91 | T | T | 0.0 | 6.9 | 28.5 | 6.5 | 6.6 | 10.3 | 2.2 | 36.9 | 4.8 | T | 102.7 |
| 1991-92 | 0.0 | 0.0 | T | 16.4 | 26.4 | 3.0 | 10.7 | 2.7 | 16.0 | 0.0 | T | T | 75.2 |
| 1992-93 | 0.0 | T | 0.0 | 3.4 | 27.5 | 16.1 | 17.1 | 5.5 | 13.1 | 16.8 | 0.0 | 0.5 | 100.0 |
| 1993-94 | T | 0.0 | 0.3 | 6.9 | 23.1 | 7.6 | 19.5 | 5.8 | 12.9 | 12.8 | 0.0 | 0.0 | 88.9 |
| 1994-95 | 0.0 | 0.0 | T | 20.2 | 11.9 | 6.5 | 8.7 | 13.8 | 4.8 | 28.1 | 9.7 | 2.6 | 106.3 |
| 1995-96 | T | 0.0 | 2.0 | 13.7 | 16.1 | 6.0 | 9.8 | 11.0 | 22.5 | 7.0 | T | T | 88.1 |
| 1996-97 | 0.0 | 0.0 | 4.2 | 12.6 | 16.9 | | | | | | | | |
| 1997-98 | | | | | | | 2.2 | 9.1 | 40.0 | 7.7 | T | 2.7 | |
| 1998-99 | 0.0 | 0.0 | 0.0 | 10.6 | 11.8 | 7.1 | 1.8 | 3.2 | 14.7 | 70.4 | 1.5 | 0.0 | 121.1 |
| 1999-00 | 0.0 | 0.0 | 7.9 | 11.6 | 0.5 | 3.7 | 0.5 | 5.2 | 14.7 | 3.7 | 0.0 | 0.0 | 47.8 |
| 2000-01 | 0.0 | 0.0 | 9.8 | 3.0 | 16.5 | 5.2 | 2.5 | 12.8 | 5.3 | 7.0 | 8.4 | 0.0 | 70.5 |
| 2001-02 | 0.0 | 0.0 | T | 0.9 | 9.3 | 6.3 | 5.0 | 5.3 | 16.6 | 14.9 | 11.3 | 0.0 | 69.6 |
| 2002-03 | 0.0 | 0.0 | 0.0 | 23.4 | 8.0 | 4.0 | 4.8 | 21.8 | 20.1 | 0.4 | 3.9 | 0.0 | 86.4 |
| 2003-04 | 0.0 | 0.0 | 5.4 | 18.5 | 2.7 | 17.3 | 3.4 | 37.0 | T | 17.4 | 3.2 | 0.0 | 104.9 |
| 2004-05 | 0.0 | 0.0 | 0.0 | 9.7 | 20.1 | 2.6 | 16.5 | 0.5 | 15.1 | 23.4 | 0.3 | 0.0 | 88.2 |
| 2005-06 | 0.0 | 0.0 | 0.0 | 4.4 | 6.6 | 8.4 | 4.2 | 20.2 | 10.2 | 16.5 | 0.5 | 0.0 | 71.0 |
| 2006-07 | 0.0 | 0.0 | 0.0 | 10.5 | 2.5 | 4.5 | 15.3 | 3.4 | 29.7 | T | 9.4 | T | 75.3 |
| 2007-08 | 0.0 | 0.0 | 2.1 | 5.8 | 3.5 | 34.6 | 7.0 | 11.0 | 9.2 | 12.3 | 12.7 | 0.0 | 98.2 |
| 2008- | 0.0 | 0.0 | 0.0 | 30.2 | 0.1 | 10.5 | | | | | | | |
| POR= 60 YRS | T | T | 2.4 | 9.7 | 13.1 | 10.2 | 8.8 | 11.2 | 17.2 | 19.3 | 6.3 | 0.7 | 98.9 |

WBAN : 24021

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 (1971 - 2000). 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> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
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2008 LANDER WYOMING (KLND)

Lander, located in the central Wyoming valley of the Popo Agie River, lies at the foot and east of the Wind River Range. Situated on a flat-topped mesa, the airport station is 1 1/2 miles south-southeast and approximately 200 feet above the town.

The terrain to the north, east and south varies from rolling to broken with some grass covered hills 2 to 5 miles distant, rising approximately 400 feet above the station elevation. To the west and southwest the foothills of the Wind River Range begin about 3 miles from the station, sloping upward to over 12,000 feet above sea level along the Continental Divide, 20 miles distant.

Because Lander is in a pocket, winds from all directions except northeast are downslope and produce a Chinook effect, most noticable in winds from westerly quadrants. The airport, on its mesa, receives more wind than the town of Lander, the wind speed averaging 4.7 mph for the 56 years of record kept in the town. Because of light winds, steep temperature inversions are the rule during winter nights and early mornings. Temperatures in the valley will be as much as 15 degrees lower than at the airport on calm, clear nights when there is a snow cover. However, when the wind is calm and the humidities low, the chilling effect is much less than is usual in extreme cold. Winds are often so light that little or no mixing occurs between the cold surface air and the warmer layer 2,000 to 3,000 feet above the valley. For several days each winter, temperatures are 20 to 30 degrees lower than in the surrounding areas where higher wind speeds occur. The sheltered location, however, offers protection from most severe storms that sweep down from Canada.

Lander does not have a true spring season, and snow has been recorded in June.

Usually on 15 to 20 days a year the temperature reaches or exceeds 90 degrees. Even the warmest days are not oppressive, the humidity being low, and the nights being cool. The normal daily range of summer temperature is near 30 degrees.

Mountains block moisture from the Pacific, creating a semi-arid climate. The heaviest and most persistent precipitation comes when the wind in the lower levels is from easterly quadrants, through a combination of low pressure to the south, usually over Colorado, and high pressure to the north over Montana or the western Dakotas. Lander receives 45 percent more precipitation than the area 24 miles to the northeast and 83 percent more than areas 50 miles northeast. More than a third of the annual precipitation occurs in April and May, with another but lesser peak in September and October. Summer moisture comes from occasional showers but is very erratic and spotty. Since about one-third of the annual snowfall comes in March and April, when the temperature is comparatively high, the snow soon melts.

Hardier plants and vegetables do well in this area. Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 24 and the average last occurrence in the spring is May 22.

Station Location

LANDER

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | Latitude | | Longitude | | ELEVATION ABOVE | | | | | | | | REMARKS |
|---------------------------------------|---------------|-------------|---------------------------------------------------------|----------|----------|-------------------------|-----------------|----------------------|--------------|-----------------|---------------------------|---------------------|-------------------|------------------|---------------------------------------------------------------------------------|---------|
| | | | | NORTH | WEST | GROUND TEMPERATURE SITE | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET RAIN GAUGE | WEIGHING RAIN GAUGE | 8 INCH RAIN GAUGE | HYGROTHERMOMETER | AUTOMATIC OBSERVING EQUIPMENT * | |
| | | | | | | | | | | | | | | | | |
| *NOTE: | | | | | | | | | | | | | | | | |
| AIRPORT | | | | | | | | | | | | | | | | |
| Weather Bureau Building Hunt Field | 5/28/46 | 9/20/73 | 1 mile SSE | 42° 49' | 108° 44' | 5563 | 32 | 6 | 6 | | 3 | g5 | 3 | | g. 3 feet to 8/6/51. | |
| Weather Service Bldg. Hunt Field | 9/20/73 | 12/01/96 | 690 ft. ESE | 42° 49' | 108° 44' | 5557 | 32 | 5 | 5 | %20 | 3 | 5 | 4 | h5 i5 | % Commissioned 10/15/74. h. Commissioned 4/13/81. i. Type change 7/24/85. | |
| Hunt Field | 12/01/96 | Present | NA | 42° 49' | 108° 44' | j5557 | | | | | | | | s | ASOS Commissioned 12/01/96 j. Ground elevation. | |

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* NOTES: For earlier station history see previous editions.