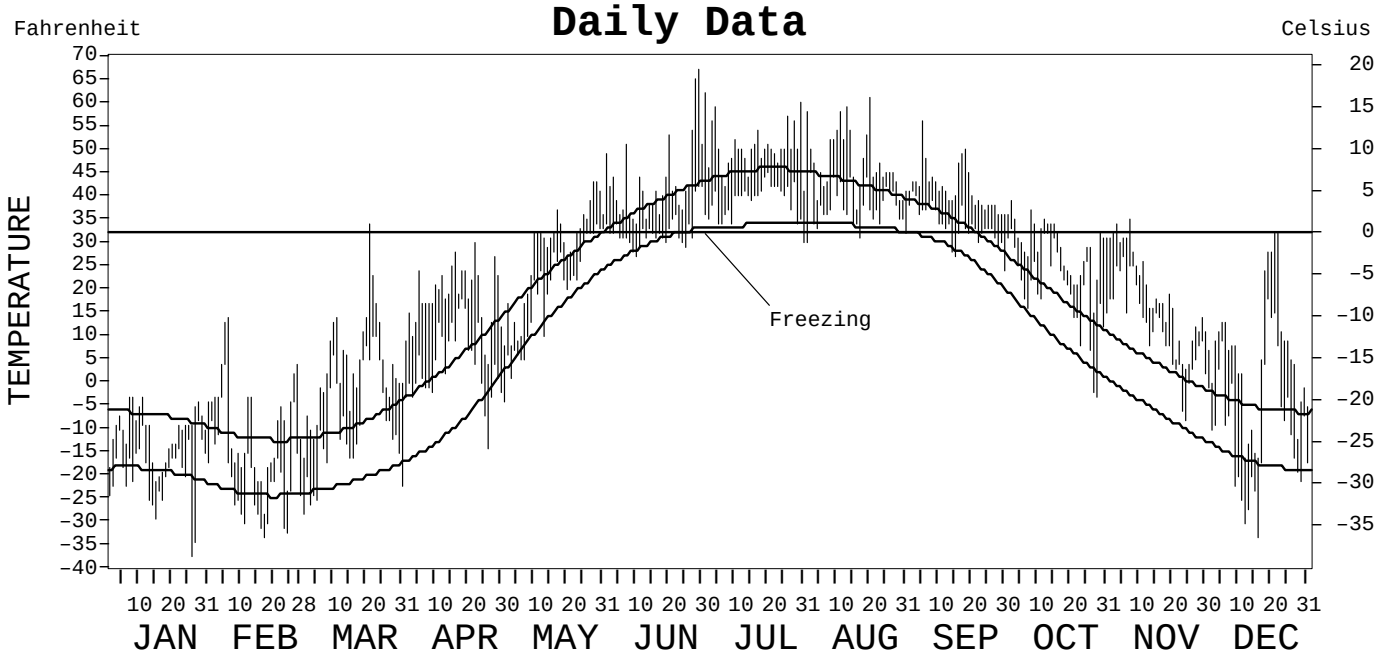
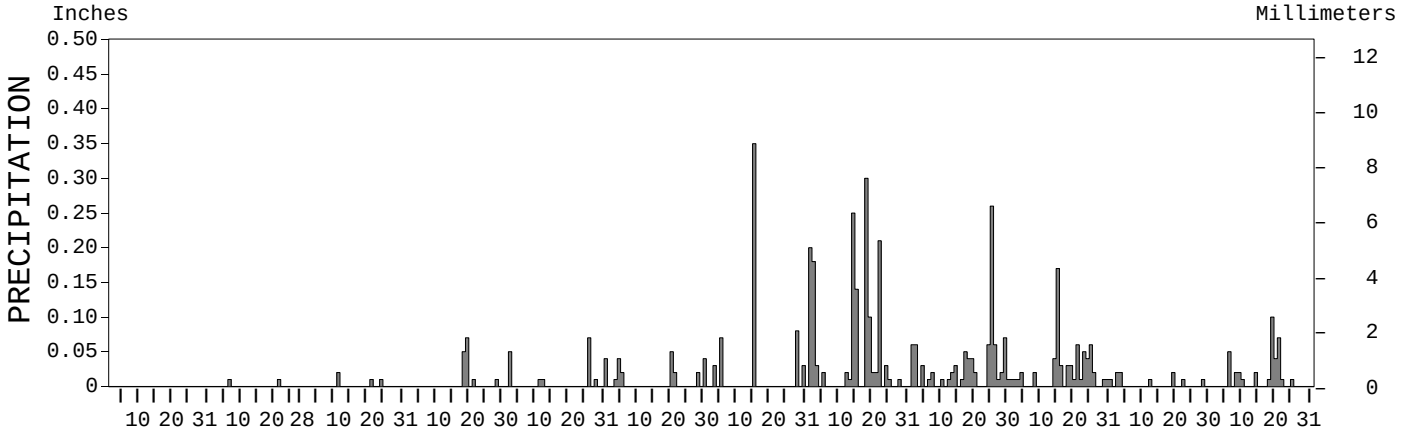
# 1998 LOCAL CLIMATOLOGICAL DATA
## ANNUAL SUMMARY WITH COMPARATIVE DATA

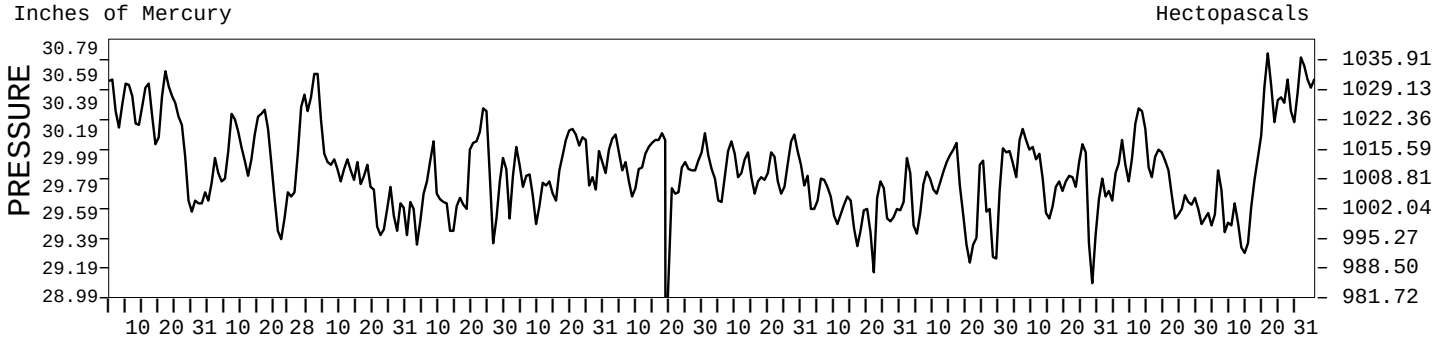
ISSN 0197-9590

BARROW,
ALASKA (BRW)

**Daily Data**

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Thomas R. Karl

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 1998

## BARROW, AK (BRW)

LATITUDE: 71° 17′ 12″ N  LONGITUDE: 156° 45′ 48″ W  ELEVATION (FT): GRND: 44 BARO: 44  TIME ZONE: ALASKA (UTC+ 9)  WBAN: 27502

| | ELEMENT | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | -10.3 | -9.2 | 3.6 | 18.4 | 27.9 | 43.0 | 50.4 | 47.3 | 41.7 | 29.3 | 18.7 | 5.6 | 22.2 |
| | HIGHEST DAILY MAXIMUM | -3 | 14 | 34 | 30 | 43 | 67 | 62 | 61 | 56 | 39 | 35 | 32 | 67 |
| | DATE OF OCCURRENCE | 11+ | 06 | 21 | 22 | 29+ | 29 | 01 | 20 | 05 | 02 | 07 | 22+ | JUN 29 |
| | MEAN DAILY MINIMUM | -19.0 | -20.1 | -9.0 | 3.9 | 19.6 | 32.5 | 38.8 | 37.4 | 33.7 | 20.1 | 11.4 | -9.3 | 11.7 |
| | LOWEST DAILY MINIMUM | -37 | -33 | -28 | -14 | -4 | 27 | 30 | 30 | 24 | -3 | -8 | -33 | -37 |
| | DATE OF OCCURRENCE | 26 | 17 | 01 | 26 | 01 | 10 | 31 | 01 | 30 | 28 | 24 | 16 | JAN 26 |
| | AVERAGE DRY BULB | -14.6 | -14.6 | -2.7 | 11.2 | 23.8 | 37.8 | 44.6 | 42.4 | 37.7 | 24.7 | 15.1 | -1.8 | 17.0 |
| | MEAN WET BULB | | | -3.0 | 11.6 | 23.0 | | 42.4 | 41.3 | 36.6 | 23.9 | 14.0 | | |
| | MEAN DEW POINT | | | -6.6 | 9.6 | 20.9 | | 40.8 | 39.4 | 34.6 | 20.8 | 9.6 | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | MAXIMUM ≥ 70° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | MAXIMUM ≤ 32° | 31 | 28 | 30 | 30 | 21 | 0 | 0 | 0 | 0 | 21 | 28 | 31 | 220 |
| | MINIMUM ≤ 32° | 31 | 28 | 31 | 30 | 28 | 19 | 1 | 3 | 10 | 30 | 30 | 31 | 272 |
| | MINIMUM ≤ 0° | 31 | 27 | 24 | 12 | 1 | 0 | 0 | 0 | 0 | 2 | 3 | 24 | 124 |
| H/C | HEATING DEGREE DAYS | 2460 | 2224 | 2093 | 1609 | 1270 | 810 | 626 | 693 | 810 | 1240 | 1492 | 2069 | 17396 |
| | COOLING DEGREE DAYS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RH | MEAN (PERCENT) | 77 | 76 | 82 | 88 | 88 | 89 | 89 | 89 | 88 | 83 | 78 | 76 | 84 |
| | HOUR 03 LST | 77 | 77 | 81 | 89 | 91 | 93 | 95 | 93 | 90 | 85 | 79 | 76 | 86 |
| | HOUR 09 LST | 77 | 76 | 81 | 89 | 89 | 89 | 89 | 90 | 90 | 83 | 77 | 77 | 84 |
| | HOUR 15 LST | 77 | 76 | 82 | 86 | 84 | 82 | 83 | 83 | 85 | 83 | 78 | 75 | 81 |
| | HOUR 21 LST | 77 | 77 | 83 | 90 | 89 | 89 | 89 | 89 | 89 | 84 | 79 | 76 | 84 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY ≤ 1/4 MI) | 0 | 0 | 0 | 9 | 4 | 11 | 18 | 9 | 8 | 1 | 2 | 4 | 66 |
| | THUNDERSTORMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CLOUDINESS | AVG. SKY COVER (OKTAS) | | | | | | | | | | | | | |
| | SUNRISE – SUNSET | 2 | 4 | | 7 | | | | | | | | | |
| | MIDNIGHT – MIDNIGHT | 4 | 4 | 6 | 6 | 7 | | | | | | | | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | CLEAR | 24 | 12 | 4 | 2 | 4 | | | | | | | | |
| | PARTLY CLOUDY | 2 | 2 | 9 | 9 | 5 | | | | | | | | |
| | CLOUDY | 5 | 14 | 17 | 19 | 22 | | | | | | | | |
| PR | MEAN STATION PRESS. (IN.) | 30.22 | 29.97 | 29.92 | 29.78 | 29.91 | | 29.92 | 29.64 | 29.73 | 29.83 | 29.86 | 30.09 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.24 | 29.99 | 29.93 | 29.80 | 29.92 | | 29.96 | 29.69 | 29.78 | 29.87 | 29.91 | 30.14 | |
| WINDS | RESULTANT SPEED (MPH) | 9.3 | 10.4 | 8.5 | 6.9 | 11.3 | | 9.8 | 1.1 | 5.7 | 8.4 | 11.3 | 1.2 | |
| | RES. DIR. (TENS OF DEGS.) | 06 | 07 | 10 | 09 | 09 | | 10 | 12 | 09 | 10 | 09 | 09 | |
| | MEAN SPEED (MPH) | 15.3 | 14.2 | 13.2 | 13.5 | 16.0 | 11.9 | 14.9 | 12.4 | 11.8 | 14.5 | 14.4 | 8.2 | 13.4 |
| | PREVAIL.DIR.(TENS OF DEGS.) | 06 | 06 | 09 | 09 | 08 | 11 | 10 | 10 | 07 | 08 | 08 | 07 | 08 |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | |
| | SPEED (MPH) | 31 | 33 | 33 | 40 | 35 | 29 | 33 | 41 | 32 | 48 | 38 | 26 | 48 |
| | DIR. (TENS OF DEGS.) | 09 | 07 | 11 | 10 | 08 | 10 | 10 | 25 | 12 | 07 | 09 | 07 | 07 |
| | DATE OF OCCURRENCE | 11 | 04+ | 23 | 27 | 19 | 22 | 23 | 20 | 23 | 24 | 20+ | 04 | OCT 24 |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | |
| | SPEED (MPH) | 37 | 39 | 41 | 48 | 41 | 33 | 39 | 49 | 37 | 56 | 43 | 29 | 56 |
| | DIR. (TENS OF DEGS.) | E | E | E | E | E | 10 | 11 | 25 | 12 | 07 | 10 | 25 | 07 |
| | DATE OF OCCURRENCE | 11 | 03 | 23 | 27 | 20+ | 22 | 23 | 20 | 23 | 24 | 19 | 22+ | OCT 24 |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | |
| | TOTAL (IN.) | T | 0.02 | 0.04 | 0.14 | 0.19 | 0.20 | 0.56 | 1.55 | 0.90 | 0.65 | 0.09 | 0.36 | 4.70 |
| | GREATEST 24-HOUR (IN.) | T | 0.01 | 0.02 | 0.12 | 0.07 | 0.05 | 0.35 | 0.34 | 0.32 | 0.17 | 0.02 | 0.10 | 0.35 |
| | DATE OF OCCURRENCE | 31+ | 21+ | 11 | 18-19 | 26 | 20 | 15 | 18-19 | 25-26 | 15 | 19+ | 19 | JUL 15 |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 0 | 2 | 3 | 4 | 6 | 7 | 5 | 16 | 21 | 20 | 6 | 11 | 101 |
| | PRECIPITATION ≥ 0.10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 7 | 1 | 1 | 0 | 1 | 11 |
| | PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SNOWFALL | SNOW,ICE PELLETS,HAIL: | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.5 | 1.5 | 1.3 | 3.9 | 2.2 | T | 0.0 | T | 0.8 | 12.6 | 3.8 | 7.1 | 33.7 |
| | GREATEST 24-HOUR (IN.) | 0.2 | 0.7 | 0.3 | 2.5 | 1.2 | T | 0.0 | T | 0.7 | 2.3 | 1.1 | 2.1 | 2.5 |
| | DATE OF OCCURRENCE | 27+ | 06 | 16 | 18-19 | 02 | 10+ | | 29+ | 28-29 | 15-16 | 02 | 19-20 | APR 18-19 |
| | MAXIMUM SNOW DEPTH (IN.) | 16 | 16 | 16 | 14 | 13 | 0 | 0 | 0 | T | 9 | 10 | 12 | 16 |
| | DATE OF OCCURRENCE | 29+ | 28+ | 23+ | 16+ | 10+ | | | | 28 | 31 | 3 | 24+ | MAR 23+ |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | |
| | SNOWFALL ≥ 1.0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 4 | 1 | 3 | 10 |

# NORMALS, MEANS, AND EXTREMES

## BARROW, AK (BRW)

LATITUDE: 71° 17′ 12″ N  LONGITUDE: 156° 45′ 48″ W  ELEVATION (FT): GRND: 44 BARO: 44  TIME ZONE: ALASKA (UTC+ 9)  WBAN: 27502

| | ELEMENT | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | -7.4 | -11.8 | -9.0 | 4.7 | 24.2 | 38.3 | 45.0 | 42.3 | 33.8 | 18.1 | 3.5 | -5.2 | 14.7 |
| | MEAN DAILY MAXIMUM | 50 | -7.6 | -11.7 | -8.0 | 6.2 | 24.6 | 38.4 | 45.4 | 42.9 | 34.1 | 19.5 | 5.0 | -5.5 | 15.3 |
| | HIGHEST DAILY MAXIMUM | 78 | 36 | 36 | 34 | 42 | 47 | 72 | 79 | 76 | 62 | 43 | 39 | 34 | 79 |
| | YEAR OF OCCURRENCE | | 1974 | 1982 | 1998 | 1936 | 1996 | 1996 | 1993 | 1968 | 1995 | 1954 | 1937 | 1932 | JUL 1993 |
| | MEAN OF EXTREME MAXS. | 50 | 18.6 | 13.6 | 13.9 | 25.9 | 37.0 | 55.4 | 64.0 | 60.4 | 48.2 | 33.7 | 24.7 | 18.4 | 34.5 |
| | NORMAL DAILY MINIMUM | 30 | -19.3 | -23.7 | -21.1 | -9.1 | 14.4 | 29.7 | 33.6 | 33.3 | 27.0 | 8.8 | -6.9 | -17.2 | 4.1 |
| | MEAN DAILY MINIMUM | 50 | -20.3 | -24.0 | -21.0 | -7.9 | 14.8 | 29.8 | 33.7 | 33.6 | 27.2 | 9.8 | -6.3 | -17.3 | 4.3 |
| | LOWEST DAILY MINIMUM | 78 | -53 | -56 | -52 | -42 | -19 | 4 | 22 | 20 | 1 | -32 | -40 | -55 | -56 |
| | YEAR OF OCCURRENCE | | 1975 | 1924 | 1971 | 1924 | 1984 | 1969 | 1936 | 1925 | 1975 | 1970 | 1948 | 1924 | FEB 1924 |
| | MEAN OF EXTREME MINS. | 50 | -40.2 | -42.2 | -37.9 | -26.4 | -2.1 | 21.9 | 28.3 | 27.3 | 16.4 | -10.7 | -23.8 | -35.2 | -10.4 |
| | NORMAL DRY BULB | 30 | -13.4 | -17.8 | -15.1 | -2.2 | 19.3 | 34.0 | 39.3 | 37.9 | 30.5 | 13.5 | -1.7 | -11.2 | 9.4 |
| | MEAN DRY BULB | 50 | -14.0 | -17.9 | -14.5 | -.8 | 19.7 | 34.1 | 39.6 | 38.3 | 30.6 | 14.6 | -.7 | -11.4 | 9.8 |
| | MEAN WET BULB | 13 | -13.3 | -14.4 | -12.2 | 1.0 | 21.2 | 33.7 | 39.2 | 37.6 | 30.5 | 15.2 | -1.5 | -10.4 | 10.6 |
| | MEAN DEW POINT | 13 | -18.4 | -18.2 | -16.8 | -3.0 | 18.9 | 31.4 | 37.3 | 35.9 | 28.5 | 12.5 | -5.2 | -14.9 | 7.3 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 70° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| | MAXIMUM ≤ 32° | 30 | 30.9 | 27.9 | 31.0 | 29.3 | 26.4 | 4.3 | 0.1 | 1.9 | 12.9 | 29.2 | 30.0 | 31.0 | 254.9 |
| | MINIMUM ≤ 32° | 30 | 31.0 | 28.0 | 31.0 | 30.0 | 30.9 | 23.6 | 13.9 | 15.9 | 25.2 | 30.8 | 30.0 | 31.0 | 321.3 |
| | MINIMUM ≤ 0° | 30 | 28.8 | 26.4 | 30.2 | 24.2 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.5 | 22.1 | 28.6 | 171.8 |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 2430 | 2318 | 2483 | 2016 | 1417 | 930 | 797 | 840 | 1035 | 1597 | 2001 | 2362 | 20226 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RH | NORMAL (PERCENT) | 30 | 73 | 70 | 71 | 77 | 87 | 88 | 88 | 91 | 91 | 86 | 79 | 74 | 81 |
| | HOUR 03 LST | 30 | 73 | 70 | 70 | 78 | 90 | 93 | 94 | 95 | 92 | 86 | 79 | 74 | 83 |
| | HOUR 09 LST | 30 | 73 | 70 | 70 | 77 | 88 | 88 | 88 | 92 | 92 | 86 | 79 | 74 | 81 |
| | HOUR 15 LST | 30 | 73 | 70 | 71 | 76 | 84 | 85 | 83 | 87 | 88 | 85 | 80 | 74 | 80 |
| | HOUR 21 LST | 30 | 73 | 70 | 72 | 77 | 87 | 88 | 88 | 91 | 91 | 86 | 79 | 74 | 81 |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY≤1/4 MI) | 58 | 2.0 | 1.4 | 1.3 | 2.7 | 7.1 | 10.0 | 11.9 | 11.4 | 4.9 | 3.1 | 2.2 | 1.2 | 59.2 |
| | THUNDERSTORMS | 79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 7 | 1.4 | 4.2 | 3.8 | 4.9 | 6.6 | 6.5 | 6.3 | 7.2 | 7.6 | 7.0 | 2.8 | 0.0 | 4.9 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 31 | 3.9 | 3.7 | 3.6 | 4.4 | 6.6 | 6.3 | 6.1 | 7.1 | 7.4 | 6.7 | 5.0 | 4.1 | 5.4 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 54 | 6.2 | 11.7 | 13.5 | 10.4 | 3.3 | 3.5 | 3.4 | 1.4 | 1.2 | 2.3 | 5.5 | 3.5 | 65.9 |
| | PARTLY CLOUDY | 54 | 1.5 | 5.6 | 7.1 | 7.0 | 5.1 | 5.8 | 7.0 | 3.8 | 2.6 | 3.8 | 2.6 | 0.0 | 51.9 |
| | CLOUDY | 54 | 2.7 | 10.8 | 10.4 | 12.5 | 22.7 | 20.7 | 20.2 | 25.3 | 25.9 | 24.6 | 10.5 | 0.0 | 186.3 |
| PR | MEAN STATION PRESSURE(IN) | 24 | 30.01 | 30.09 | 30.10 | 30.09 | 30.01 | 29.90 | 29.90 | 29.89 | 29.90 | 29.90 | 29.98 | 30.01 | 29.98 |
| | MEAN SEA-LEVEL PRES. (IN) | 15 | 30.04 | 30.12 | 30.11 | 30.08 | 30.04 | 29.96 | 29.96 | 29.89 | 29.89 | 29.94 | 30.00 | 29.99 | 30.00 |
| WINDS | MEAN SPEED (MPH) | 32 | 12.5 | 11.8 | 11.6 | 11.9 | 12.6 | 11.9 | 12.0 | 12.8 | 13.3 | 13.6 | 13.3 | 12.2 | 12.5 |
| | PREVAIL.DIR(TENS OF DEGS) | 18 | 06 | 06 | 06 | 06 | 07 | 09 | 09 | 09 | 07 | 07 | 07 | 06 | 07 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 36 | 49 | 55 | 58 | 40 | 39 | 35 | 43 | 41 | 49 | 55 | 54 | 55 | 58 |
| | DIR. (TENS OF DEGS) | | 09 | 02 | 02 | 02 | 02 | 02 | 02 | 25 | 02 | 02 | 02 | 02 | 02 |
| | YEAR OF OCCURRENCE | | 1962 | 1989 | 1960 | 1961 | 1968 | 1961 | 1993 | 1998 | 1986 | 1963 | 1966 | 1973 | MAR 1960 |
| | PEAK GUST : | | | | | | | | | | | | | | |
| | SPEED (MPH) | 18 | 58 | 74 | 56 | 48 | 41 | 43 | 55 | 47 | 66 | 54 | 53 | 61 | 74 |
| | DIR. (TENS OF DEGS) | | E | SW | W | E | NE | W | W | W | SW | W | E | SW | SW |
| | YEAR OF OCCURRENCE | | 1988 | 1989 | 1996 | 1998 | 1991 | 1992 | 1993 | 1991 | 1986 | 1993 | 1981 | 1992 | FEB 1989 |
| PRECIPITATION | NORMAL (IN) | 30 | 0.17 | 0.15 | 0.17 | 0.20 | 0.16 | 0.28 | 0.94 | 0.96 | 0.60 | 0.45 | 0.25 | 0.16 | 4.49 |
| | MAXIMUM MONTHLY (IN) | 78 | 1.04 | 0.81 | 1.49 | 1.36 | 0.81 | 1.15 | 3.19 | 2.81 | 1.56 | 1.65 | 1.15 | 0.76 | 3.19 |
| | YEAR OF OCCURRENCE | | 1962 | 1959 | 1963 | 1963 | 1933 | 1955 | 1989 | 1963 | 1958 | 1925 | 1965 | 1967 | JUL 1989 |
| | MINIMUM MONTHLY (IN) | 78 | 0.00 | 0.00 | 0.00 | 0.00 | T | T | T | T | 0.01 | 0.12 | T | 0.00 | 0.00 |
| | YEAR OF OCCURRENCE | | 1939 | 1936 | 1928 | 1938 | 1995 | 1937 | 1937 | 1934 | 1969 | 1936 | 1989 | 1936 | JAN 1939 |
| | MAXIMUM IN 24 HOURS (IN) | 77 | 0.70 | 0.36 | 0.71 | 0.42 | 0.30 | 0.82 | 1.32 | 0.83 | 0.56 | 1.00 | 0.41 | 0.26 | 1.32 |
| | YEAR OF OCCURRENCE | | 1937 | 1959 | 1963 | 1963 | 1969 | 1955 | 1987 | 1960 | 1959 | 1926 | 1925 | 1930 | JUL 1987 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 30 | 5.4 | 5.0 | 4.6 | 5.3 | 5.5 | 5.5 | 9.2 | 11.7 | 12.2 | 12.7 | 6.7 | 5.5 | 89.3 |
| | PRECIPITATION ≥ 1.00 | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| SNOWFALL | NORMAL (IN) | 30 | 2.1 | 2.0 | 2.0 | 2.5 | 2.0 | 0.7 | 0.4 | 0.8 | 4.1 | 6.6 | 3.3 | 2.2 | 28.7 |
| | MAXIMUM MONTHLY (IN) | 78 | 11.9 | 9.4 | 15.8 | 15.4 | 12.9 | 6.6 | 9.0 | 4.0 | 16.2 | 21.2 | 19.0 | 9.7 | 21.2 |
| | YEAR OF OCCURRENCE | | 1962 | 1944 | 1963 | 1963 | 1933 | 1933 | 1922 | 1969 | 1987 | 1925 | 1925 | 1925 | OCT 1925 |
| | MAXIMUM IN 24 HOURS (IN) | 78 | 5.4 | 3.6 | 7.1 | 4.2 | 5.0 | 3.2 | 6.0 | 2.5 | 5.1 | 15.0 | 6.0 | 5.0 | 15.0 |
| | YEAR OF OCCURRENCE | | 1962 | 1959 | 1963 | 1963 | 1996 | 1981 | 1922 | 1936 | 1987 | 1926 | 1925 | 1922 | OCT 1926 |
| | MAXIMUM SNOW DEPTH (IN) | 49 | 22 | 29 | 30 | 30 | 25 | 14 | 1 | 2 | 20 | 12 | 15 | 16 | 30 |
| | YEAR OF OCCURRENCE | | 1962 | 1962 | 1962 | 1962 | 1963 | 1950 | 1963 | 1988 | 1962 | 1964 | 1997 | 1965 | APR 1962 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | SNOWFALL ≥ 1.0 | 30 | 0.4 | 0.4 | 0.3 | 0.9 | 0.3 | 0.2 | 0.1 | 0.3 | 1.1 | 1.8 | 0.9 | 0.5 | 7.2 |

PRECIPITATION (inches) 1998 BARROW, AK (BRW)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969 | 0.12 | 0.13 | 0.05 | 0.17 | 0.51 | 0.29 | 0.34 | 0.88 | 0.01 | 0.45 | 0.24 | 0.12 | 3.31 |
| 1970 | 0.07 | 0.09 | 0.06 | 0.15 | 0.09 | 0.02 | 0.15 | 0.35 | 0.14 | 0.16 | 0.47 | 0.09 | 1.84 |
| 1971 | 0.18 | 0.13 | 0.16 | 0.02 | 0.25 | 0.12 | 0.98 | 0.35 | 0.17 | 0.36 | 0.17 | 0.18 | 3.07 |
| 1972 | 0.05 | 0.19 | T | 0.01 | 0.06 | 0.05 | 0.11 | 1.12 | 1.33 | 1.40 | 0.43 | 0.17 | 4.92 |
| 1973 | 0.07 | 0.16 | 0.04 | 0.52 | 0.19 | 0.78 | 1.06 | 2.20 | 1.14 | 0.56 | 0.36 | 0.09 | 7.17 |
| 1974 | 0.38 | 0.06 | 0.01 | T | 0.06 | 0.52 | 0.55 | 0.59 | 0.49 | 0.20 | 0.16 | 0.04 | 3.06 |
| 1975 | 0.17 | 0.29 | 0.17 | 0.18 | 0.08 | 0.79 | 1.00 | 1.16 | 0.51 | 0.40 | 0.07 | 0.01 | 4.83 |
| 1976 | 0.04 | 0.07 | 0.04 | 0.10 | 0.03 | 0.30 | 0.37 | 0.17 | 0.71 | 0.58 | 0.45 | 0.02 | 2.88 |
| 1977 | 0.17 | 0.17 | 0.18 | 0.05 | 0.13 | 0.19 | 0.09 | 0.79 | 0.79 | 0.48 | 0.05 | 0.18 | 3.27 |
| 1978 | 0.08 | 0.17 | 0.08 | 0.13 | 0.03 | 0.37 | 0.73 | 0.50 | 1.11 | 0.13 | 0.32 | 0.22 | 3.87 |
| 1979 | 0.05 | T | 0.09 | 0.11 | 0.04 | 0.10 | 0.81 | 0.76 | 0.28 | 0.38 | 0.21 | 0.18 | 3.01 |
| 1980 | 0.15 | 0.15 | 0.02 | 0.06 | 0.01 | 0.56 | 0.77 | 1.41 | 0.73 | 0.36 | 0.12 | 0.08 | 4.42 |
| 1981 | 0.22 | 0.06 | 0.03 | 0.19 | 0.06 | 0.51 | 1.77 | 0.56 | 0.52 | 0.32 | 0.06 | 0.09 | 4.39 |
| 1982 | 0.17 | 0.43 | 0.24 | 0.34 | 0.39 | 0.21 | 0.78 | 0.86 | 0.59 | 0.56 | 0.02 | 0.13 | 4.72 |
| 1983 | 0.03 | 0.09 | T | 0.20 | 0.07 | 0.11 | 0.10 | 1.04 | 0.93 | 0.36 | 0.25 | 0.05 | 3.23 |
| 1984 | 0.19 | 0.16 | 0.11 | 0.27 | 0.07 | 0.03 | 0.83 | 1.64 | 0.15 | 0.33 | 0.12 | 0.08 | 3.98 |
| 1985 | 0.05 | 0.10 | 0.15 | 0.05 | 0.25 | 0.64 | 0.61 | 0.51 | 0.58 | 0.45 | 0.25 | 0.16 | 3.80 |
| 1986 | 0.16 | 0.14 | 0.09 | 0.03 | 0.07 | 0.07 | 0.79 | 0.69 | 1.45 | 0.43 | 0.14 | 0.09 | 4.15 |
| 1987 | 0.13 | 0.08 | 0.03 | T | 0.13 | 0.06 | 1.94 | 1.00 | 1.37 | 0.17 | 0.05 | 0.18 | 5.14 |
| 1988 | 0.02 | 0.04 | 0.10 | 0.03 | 0.02 | 0.15 | 0.74 | 1.57 | 0.41 | 0.24 | 0.01 | 0.26 | 3.59 |
| 1989 | 0.01 | 0.29 |  | 0.42 | 0.02 | 0.36 | 3.19 | 1.69 | 0.69 | 0.20 | T | 0.20 |  |
| 1990 | 0.03 | 0.06 | 0.13 | 0.08 | 0.13 | 0.38 | 1.35 | 1.19 | 0.55 | 0.42 | 0.17 | 0.12 | 4.61 |
| 1991 | 0.07 | 0.08 | 0.02 | 0.07 | 0.17 | 0.08 | 0.22 | 0.20 | 0.35 | 0.39 | 0.07 | 0.03 | 1.75 |
| 1992 | 0.04 | 0.12 | 0.13 | 0.11 | 0.08 | 0.16 | 0.26 | 0.66 | 0.47 | 0.21 | 0.22 | 0.24 | 2.70 |
| 1993 | 0.45 | 0.17 | 0.11 | 0.03 | 0.11 | 0.44 | 0.67 | 0.98 | 1.50 | 0.50 | 0.25 | 0.12 | 5.33 |
| 1994 | 0.05 | 0.02 | 0.13 | 0.02 | 0.34 | 0.15 | 0.56 | 2.02 | 0.44 | 0.33 | 0.07 | 0.15 | 4.28 |
| 1995 | 0.06 | 0.03 | 0.23 | 0.13 | T | 0.36 | 1.09 | 0.31 | 0.16 | 0.14 | 0.19 | 0.05 | 2.75 |
| 1996 | T | 0.11 | 0.06 | 0.11 | 0.39 | 0.07 | 1.04 | 0.57 | 0.81 | 0.17 | 0.12 | 0.03 | 3.48 |
| 1997 | 0.08 | T | 0.03 | 0.11 | 0.03 | 0.63 | 0.48 | 2.64 | 0.59 | 0.41 | 0.08 | 0.06 | 5.14 |
| 1998 | T | 0.02 | 0.04 | 0.14 | 0.19 | 0.20 | 0.56 | 1.55 | 0.90 | 0.65 | 0.09 | 0.36 | 4.70 |
| POR= 77 YRS | 0.17 | 0.15 | 0.13 | 0.15 | 0.13 | 0.31 | 0.80 | 0.93 | 0.51 | 0.40 | 0.20 | 0.10 | 3.98 |

WBAN : 27502

AVERAGE TEMPERATURE (°F) 1998 BARROW, AK (BRW)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969 | -12.7 | -19.3 | -11.6 | 2.0 | 20.5 | 33.4 | 34.7 | 31.8 | 29.8 | 15.9 | -9.8 | -7.7 | 8.9 |
| 1970 | -12.5 | -17.0 | -18.4 | -3.0 | 19.1 | 32.9 | 37.8 | 35.0 | 25.7 | 0.5 | -4.2 | -10.2 | 7.1 |
| 1971 | -19.5 | -26.1 | -18.2 | -4.5 | 17.4 | 35.1 | 40.4 | 33.5 | 31.7 | 14.2 | -.5 | -11.4 | 7.7 |
| 1972 | -16.2 | -19.2 | -19.7 | -4.4 | 18.1 | 32.5 | 42.9 | 40.6 | 31.2 | 21.1 | 1.4 | -2.9 | 10.5 |
| 1973 | -13.5 | -13.2 | -20.8 | -2.7 | 19.1 | 33.2 | 39.7 | 39.8 | 34.0 | 19.4 | 7.9 | -5.4 | 11.5 |
| 1974 | -10.7 | -28.3 | -20.1 | -7.9 | 18.1 | 30.0 | 39.1 | 42.3 | 32.9 | 6.2 | -7.6 | -26.6 | 5.6 |
| 1975 | -26.4 | -13.5 | -7.3 | -4.5 | 19.1 | 33.6 | 37.4 | 34.7 | 23.9 | 5.2 | -11.3 | -21.8 | 5.8 |
| 1976 | -18.9 | -22.9 | -15.4 | -2.1 | 17.2 | 33.5 | 38.5 | 37.5 | 32.2 | 13.7 | 2.5 | -16.4 | 8.3 |
| 1977 | -8.0 | -16.4 | -22.2 | -6.4 | 19.0 | 34.1 | 38.8 | 44.4 | 35.7 | 20.2 | -4.9 | -7.6 | 10.6 |
| 1978 | -6.0 | -14.2 | -10.5 | 1.6 | 16.4 | 33.0 | 39.8 | 36.6 | 33.5 | 7.1 | 5.4 | -13.9 | 10.7 |
| 1979 | -2.5 | -20.0 | -16.6 | -.9 | 19.8 | 32.4 | 43.0 | 46.1 | 36.5 | 19.0 | 9.5 | -12.0 | 12.9 |
| 1980 | -13.9 | -10.3 | -11.5 | -3.8 | 17.0 | 37.0 | 35.7 | 33.9 | 25.1 | 14.5 | -5.0 | -15.6 | 8.6 |
| 1981 | -.9 | -15.7 | -10.9 | 1.1 | 23.6 | 34.6 | 39.7 | 33.6 | 25.5 | 14.2 | -.6 | -8.1 | 11.3 |
| 1982 | -11.1 | -6.5 | -12.4 | -1.0 | 16.6 | 33.9 | 38.0 | 36.7 | 29.6 | 6.9 | -10.1 | -9.3 | 9.3 |
| 1983 | -19.2 | -15.4 | -13.4 | 2.7 | 16.9 | 34.6 | 38.1 | 34.3 | 23.9 | 7.0 | 1.3 | 0.6 | 9.3 |
| 1984 | -15.3 | -33.0 | -16.5 | -10.6 | 16.6 | 37.9 | 41.0 | 38.4 | 34.2 | 17.2 | -8.1 | -13.6 | 7.4 |
| 1985 | -7.3 | -17.2 | -12.9 | -6.6 | 22.7 | 35.8 | 39.0 | 38.6 | 28.9 | 10.4 | 2.7 | -6.9 | 10.6 |
| 1986 | -15.0 | -8.8 | -17.7 | -7.7 | 20.1 | 34.5 | 42.0 | 39.5 | 36.9 | 16.4 | 0.4 | -6.4 | 11.2 |
| 1987 | -13.0 | -20.0 | -11.7 | -4.7 | 20.2 | 34.1 | 38.9 | 38.9 | 28.3 | 22.9 | -5.4 | -8.9 | 10.0 |
| 1988 | -10.5 | -14.4 | -12.7 | 1.4 | 19.8 | 33.6 | 38.9 | 35.7 | 28.2 | 2.0 | -13.6 | -9.3 | 8.3 |
| 1989 | -24.0 | 9.3 |  | 6.0 | 17.4 | 36.5 | 45.5 | 46.8 | 35.5 | 18.0 | -12.6 | -9.5 |  |
| 1990 | -23.0 | -23.2 | -11.4 | 7.5 | 26.5 | 37.7 | 42.3 | 37.3 | 31.5 | 16.9 | -6.9 | -15.7 | 10.0 |
| 1991 | -13.4 | -18.2 | -17.7 | 3.3 | 28.0 | 36.9 | 37.9 | 36.1 | 29.9 | 17.5 | -8.0 | -15.8 | 9.7 |
| 1992 | -18.6 | -20.3 | -9.2 | 0.8 | 20.7 | 35.9 | 39.7 | 39.0 | 25.0 | 12.5 | -1.1 | -8.7 | 9.6 |
| 1993 | -12.6 | -11.1 | -12.6 | 6.5 | 23.0 | 36.4 | 45.2 | 36.8 | 32.4 | 23.1 | 5.2 | -8.1 | 13.7 |
| 1994 | -9.0 | -8.9 | -18.2 | -.1 | 18.6 | 32.6 | 41.6 | 43.1 | 27.2 | 8.4 | -8.6 | -16.0 | 9.2 |
| 1995 | -12.0 | -16.2 | -16.7 | 7.6 | 26.4 | 36.6 | 40.4 | 36.5 | 35.6 | 18.5 | 4.0 | -11.9 | 12.4 |
| 1996 | -7.1 | -16.3 | -5.6 | 0.0 | 25.9 | 37.8 | 42.2 | 35.9 | 27.9 | 5.5 | 9.4 | -4.3 | 12.6 |
| 1997 | -17.5 | -14.2 | -13.1 | 3.7 | 19.7 | 34.2 | 40.9 | 42.0 | 35.0 | 19.7 | 11.1 | -11.6 | 12.5 |
| 1998 | -14.6 | -14.6 | -2.7 | 11.2 | 23.8 | 37.8 | 44.6 | 42.4 | 37.7 | 24.7 | 15.1 | -1.8 | 17.0 |
| POR= 78 YRS | -14.5 | -17.9 | -14.8 | -.6 | 19.4 | 34.1 | 39.6 | 38.3 | 30.6 | 15.4 | -.5 | -11.0 | 9.8 |

HEATING DEGREE DAYS (base 65°F) 1998 BARROW, AK (BRW)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969–70 | 935 | 1023 | 1049 | 1516 | 2248 | 2258 | 2406 | 2303 | 2591 | 2041 | 1416 | 959 | 20745 |
| 1970–71 | 835 | 921 | 1173 | 1999 | 2074 | 2338 | 2624 | 2555 | 2585 | 2090 | 1470 | 891 | 21555 |
| 1971–72 | 755 | 970 | 990 | 1568 | 1966 | 2372 | 2523 | 2447 | 2630 | 2081 | 1448 | 968 | 20718 |
| 1972–73 | 681 | 750 | 1009 | 1350 | 1909 | 2106 | 2436 | 2193 | 2667 | 2035 | 1416 | 950 | 19502 |
| 1973–74 | 778 | 772 | 923 | 1407 | 1709 | 2186 | 2352 | 2619 | 2645 | 2192 | 1449 | 1045 | 20077 |
| 1974–75 | 795 | 695 | 956 | 1818 | 2180 | 2848 | 2841 | 2202 | 2246 | 2085 | 1417 | 934 | 21017 |
| 1975–76 | 850 | 931 | 1226 | 1852 | 2293 | 2699 | 2609 | 2554 | 2501 | 2014 | 1476 | 943 | 21948 |
| 1976–77 | 816 | 844 | 976 | 1587 | 1873 | 2532 | 2269 | 2285 | 2711 | 2141 | 1419 | 922 | 20375 |
| 1977–78 | 802 | 632 | 871 | 1381 | 2099 | 2256 | 2202 | 2223 | 2346 | 1904 | 1501 | 954 | 19171 |
| 1978–79 | 772 | 874 | 936 | 1793 | 1786 | 2448 | 2091 | 2390 | 2534 | 1978 | 1395 | 970 | 19967 |
| 1979–80 | 676 | 579 | 851 | 1419 | 1660 | 2391 | 2450 | 2186 | 2380 | 2065 | 1480 | 835 | 18972 |
| 1980–81 | 902 | 961 | 1191 | 1558 | 2102 | 2501 | 2043 | 2265 | 2360 | 1917 | 1275 | 906 | 19981 |
| 1981–82 | 777 | 968 | 1176 | 1569 | 1966 | 2269 | 2363 | 2002 | 2403 | 1983 | 1495 | 925 | 19896 |
| 1982–83 | 833 | 871 | 1057 | 1796 | 2261 | 2307 | 2617 | 2255 | 2435 | 1871 | 1485 | 906 | 20694 |
| 1983–84 | 830 | 941 | 1225 | 1798 | 1907 | 1998 | 2495 | 2848 | 2532 | 2273 | 1498 | 806 | 21151 |
| 1984–85 | 738 | 816 | 917 | 1479 | 2197 | 2442 | 2248 | 2304 | 2423 | 2153 | 1303 | 870 | 19890 |
| 1985–86 | 800 | 810 | 1078 | 1691 | 1867 | 2233 | 2485 | 2066 | 2573 | 2183 | 1384 | 909 | 20079 |
| 1986–87 | 707 | 784 | 840 | 1500 | 1941 | 2216 | 2424 | 2388 | 2382 | 2093 | 1380 | 920 | 19575 |
| 1987–88 | 801 | 802 | 1095 | 1297 | 2114 | 2295 | 2344 | 2305 | 2415 | 1906 | 1394 | 938 | 19706 |
| 1988–89 | 803 | 898 | 1097 | 1956 | 2363 | 2307 | 2763 | 1556 |  | 1767 | 1468 | 851 |  |
| 1989–90 | 595 | 557 | 879 | 1449 | 2335 | 2311 | 2730 | 2477 | 2372 | 1720 | 1184 | 816 | 19425 |
| 1990–91 | 696 | 850 | 997 | 1487 | 2161 | 2511 | 2433 | 2336 | 2568 | 1849 | 1138 | 834 | 19860 |
| 1991–92 | 837 | 887 | 1046 | 1469 | 2194 | 2513 | 2598 | 2481 | 2307 | 1930 | 1365 | 866 | 20493 |
| 1992–93 | 778 | 800 | 1193 | 1619 | 1982 | 2285 | 2407 | 2130 | 2410 | 1751 | 1294 | 850 | 19499 |
| 1993–94 | 609 | 868 | 970 | 1291 | 1795 | 2267 | 2300 | 2073 | 2587 | 1951 | 1431 | 968 | 19110 |
| 1994–95 | 721 | 671 | 1126 | 1753 | 2212 | 2515 | 2388 | 2278 | 2534 | 1719 | 1189 | 846 | 19952 |
| 1995–96 | 760 | 876 | 877 | 1432 | 1829 | 2388 | 2239 | 2361 | 2189 | 1951 | 1207 | 808 | 18917 |
| 1996–97 | 698 | 894 | 1108 | 1843 | 1665 | 2137 | 2551 | 2209 | 2414 | 1834 | 1398 | 915 | 19666 |
| 1997–98 | 741 | 707 | 894 | 1399 | 1610 | 2368 | 2460 | 2224 | 2093 | 1609 | 1270 | 810 | 18185 |
| 1998– | 626 | 693 | 810 | 1240 | 1492 | 2069 |  |  |  |  |  |  |  |

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COOLING DEGREE DAYS (base 65°F) 1998 BARROW, AK (BRW)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1971 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1972 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1973 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1974 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1976 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1980 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1982 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1983 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1984 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1985 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1986 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1987 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1988 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1989 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 1990 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SNOWFALL (inches) 1998 BARROW, AK (BRW)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969–70 | 0.8 | 4.0 | 0.1 | 3.8 | 2.6 | 1.3 | 1.1 | 1.1 | 1.0 | 1.8 | 0.9 | T | 18.5 |
| 1970–71 | T | T | 2.1 | 2.3 | 4.6 | 0.9 | 1.8 | 1.6 | 1.7 | 0.2 | 2.4 | 0.2 | 17.8 |
| 1971–72 | T | 2.4 | 2.0 | 5.0 | 2.0 | 2.2 | 0.6 | 2.3 | 0.5 | 0.7 | 1.3 | 0.7 | 19.7 |
| 1972–73 | 0.0 | 0.2 | 12.9 | 15.0 | 4.9 | 1.9 | 0.7 | 1.8 | 1.0 | 8.8 | 3.3 | 2.9 | 53.4 |
| 1973–74 | 1.1 | 0.6 | 6.5 | 8.4 | 4.1 | 1.7 | 2.6 | 0.8 | 0.2 | T | 0.9 | 4.1 | 31.0 |
| 1974–75 | T | 0.0 | 3.3 | 2.7 | 2.4 | 0.7 | 2.3 | 3.6 | 2.4 | 2.7 | 0.7 | T | 20.8 |
| 1975–76 | 0.3 | 1.5 | 3.2 | 4.3 | 0.7 | 0.1 | 0.4 | 0.7 | 0.6 | 1.6 | 0.7 | 0.1 | 14.2 |
| 1976–77 | T | T | 2.1 | 8.3 | 7.2 | 0.4 | 2.2 | 1.9 | 2.1 | 0.7 | 1.3 | T | 26.2 |
| 1977–78 | 0.1 | 0.1 | 0.8 | 7.0 | 1.1 | 2.7 | 1.2 | 2.6 | 1.3 | 0.7 | 0.6 | T | 18.2 |
| 1978–79 | 0.0 | 0.2 | 6.1 | 3.2 | 4.8 | 2.6 | 0.7 | T | 0.9 | 1.1 | 0.4 | 1.0 | 21.0 |
| 1979–80 | 0.5 | T | 2.1 | 4.4 | 2.1 | 2.1 | 2.8 | 2.8 | 0.4 | 1.1 | 0.1 | T | 18.4 |
| 1980–81 | T | 1.0 | 2.4 | 7.9 | 2.4 | 1.6 | 4.5 | 1.2 | 0.4 | 2.8 | 0.7 | 3.7 | 28.6 |
| 1981–82 | T | 0.6 | 5.5 | 5.7 | 0.6 | 0.9 | 1.7 | 4.3 | 2.4 | 3.4 | 4.4 | 0.2 | 29.7 |
| 1982–83 | 1.7 | 0.4 | 5.1 | 5.8 | 0.2 | 1.3 | 0.3 | 0.9 | T | 1.5 | 0.7 | 0.7 | 18.6 |
| 1983–84 | 0.4 | 1.8 | 6.9 | 3.4 | 3.1 | 0.5 | 1.9 | 1.6 | 1.1 | 2.7 | 0.7 | T | 24.1 |
| 1984–85 | T | 2.4 | 0.7 | 3.7 | 1.2 | 0.8 | 0.5 | 1.1 | 1.6 | 0.6 | 2.4 | 0.4 | 15.4 |
| 1985–86 | 0.0 | 0.7 | 6.1 | 4.7 | 2.7 | 1.7 | 1.6 | 1.4 | 0.9 | 0.3 | 0.9 | T | 21.0 |
| 1986–87 | T | 0.9 | 4.2 | 9.4 | 3.4 | 3.0 | 2.9 | 2.8 | 0.7 | 0.4 | 1.4 | 0.8 | 29.9 |
| 1987–88 | T | 0.4 | 16.2 | 2.7 | 0.5 | 2.7 | 0.5 | 1.3 | 1.7 | 0.4 | 1.3 | 0.6 | 28.3 |
| 1988–89 | T | 2.5 | 4.1 | 2.7 | 0.1 | 2.6 | 0.1 | 3.3 |  | 4.2 | 0.6 | 0.2 |  |
| 1989–90 | T | 0.0 | 0.4 | 6.6 | 0.4 | 4.0 | 0.7 | 0.8 | 3.0 | 1.9 | 1.1 | 1.2 | 20.1 |
| 1990–91 | 0.4 | T | 4.7 | 11.0 | 5.6 | 2.4 | 1.9 | 2.0 | 0.6 | 2.0 | 2.7 | 1.1 | 34.4 |
| 1991–92 | T | 1.1 | 4.6 | 7.9 | 1.5 | 1.2 | 1.1 | 2.7 | 4.6 | 3.1 | 1.3 | 0.5 | 29.6 |
| 1992–93 | T | 2.1 | 8.9 | 7.5 | 6.8 | 4.7 | 8.6 | 3.2 | 4.2 | 3.4 | 1.4 | 0.1 | 50.9 |
| 1993–94 | 0.0 | 1.5 | 11.8 | 8.5 | 5.5 | 3.1 | 1.4 | 0.4 | 4.3 | 1.3 | 3.8 | 2.5 | 44.1 |
| 1994–95 | T | 1.1 | 3.4 | 11.1 | 2.7 | 3.0 | 1.8 | 0.7 | 5.2 | 2.7 | 0.1 | T | 31.8 |
| 1995–96 | T | 1.3 | 1.4 | 5.4 | 3.7 | 1.7 | 0.8 | 4.2 | 1.9 | 3.4 | 6.0 | 0.4 | 30.2 |
| 1996–97 | T | 0.2 | 7.2 | 6.3 | 4.5 | 0.8 | 4.8 | T | 1.7 | 3.0 | 2.1 | T | 30.6 |
| 1997–98 | T | T | 3.8 | 19.1 | 5.0 | 3.0 | 0.5 | 1.5 | 1.3 | 3.9 | 2.2 | T | 40.3 |
| 1998– | 0.0 | T | 0.8 | 12.6 | 3.8 | 7.1 |  |  |  |  |  |  |  |
| POR= 77 YRS | 0.5 | 0.7 | 3.6 | 7.1 | 3.4 | 2.6 | 2.1 | 2.1 | 2.0 | 2.2 | 1.8 | 0.6 | 28.7 |

WBAN : 27502

REFERENCE NOTES:

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).

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).

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.

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.

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.

# 1998
# BARROW, ALASKA (BRW)

Barrow is the most northerly First–Order station operated by the National Weather Service. Although this station generally records one of the lowest mean temperatures for the winter months, the surrounding topography prevents the establishment of the lowest minima for the state. With the Arctic Ocean to the north, east, and west, and level tundra stretching 200 miles to the south, there are no natural wind barriers to assist in stilling the wind, permitting the lowering of temperatures by radiation, and no downslope drainage area to aid the flow of cold air to lower levels. Consequently, temperature inversions in the lower levels of the atmosphere are not as marked as those observed at stations in the central interior.

Temperatures at this northern station remain below the freezing point through most of the year, with the daily maxima reaching higher than 32 degrees on an average of only 109 days a year. Freezing temperatures have been observed every month of the year. February is generally the coldest month and March temperatures are but little higher than those observed in the winter months. In April, temperatures begin a general upward trend, with May becoming the definite transitional period from winter to the summer season. July is the warmest month of the year and the frequency of minimum temperatures of 32 degrees or less are about one day out of two for July and August. During late July or early August, the Arctic Ocean is usually ice–free for the first time in summer. The end of the short summer is reached in September. By November about half of the daily mean temperatures are zero or below, and Barrow definitely returns to the clutches of winter cold.

At 1250 p.m. on November 18, the sun dips below the horizon and is not seen again until 1151 a.m. on January 24. Then the amount of possible sunshine each day increases by never less than 9 minutes per day. By 106 a.m. on May 10th the possible sunshine has increased to 24 hours per day. The sun remains visible from that time to August 2, when it again sets for 1 hour and 25 minutes. The decrease in hours of sunshine is as rapid as the increase.

The amount of sunshine appears to have a direct relationship to the occurrence of cloudiness, precipitation, and heavy fog. All three build up to a maximum along with the hours of sunshine. Maximum cloudiness does continue into the fall months, although the amount of sunshine, precipitation, and fog are on the decrease. Since an accurate estimate of cloudiness cannot be made under conditions of darkness, the record of cloudiness for that time is not summarized. However, average cloudiness probably approximates that observed during late winter and spring months.

Variation of wind speed during the year is small, with the fall months being windiest. Extreme winds in the upper 40s and low 50s have been recorded for all months.

# STATION LOCATION

BARROW, ALASKA

| LOCATION | OCCUPIED FROM | OCCUPIED TO | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE SEA LEVEL GROUND TEMPERATURE SITE | ELEVATION ABOVE GROUND WIND INSTRUMENTS | ELEVATION ABOVE GROUND EXTREME THERMOMETERS | ELEVATION ABOVE GROUND PSYCHROMETER | ELEVATION ABOVE GROUND SUNSHINE SWITCH | ELEVATION ABOVE GROUND TIPPING BUCKET RAIN GAGE | ELEVATION ABOVE GROUND WEIGHING RAIN GAGE | ELEVATION ABOVE GROUND 8 INCH RAIN GAGE | ELEVATION ABOVE GROUND HYGROTHERMOMETER | AUTOMATIC OBSERVING EQUIPMENT * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hospital Building | 9/1901 | 4/1904 | NA | 71° 18' | 156°47' | | | | | | | | | | | Instrumentation unknown. |
| Hospital Building | 9/1910 | 12/1911 | | 71° 18' | 156°47' | | | | | | | | | | | Instrumentation unknown. |
| School Building (Bureau of Education) | 12/1915 | 3/1919 | 600 ft. W | 71° 18' | 156°47' | | | | | | | | | | | Instrumentation unknown. Observations taken by teachers. |
| Army Radio Building | 9/1920 | 12/1942 | 1000 ft.NE | 71° 18' | 156°46' | 13 | 30 | 5 | 5 | | | | 3 | | | Equipment moved to "Hansens Store, "location unknown following fire of 12/19/24; reinstalled when Radio Building rebuilt. |
| Weather Bureau Qtrs. #1 | 12/15/42 | 2/7/44 | 0.33 mi.SW | 71° 18' | 156°47' | 13 | 30 | 5 | 5 | | | | 3 | | | Located near shore of Chukchi Sea. |
| Weather Bureau Qtrs. #1 | 2/8/44 | 4/2/55 | 810 ft. SE | 71° 18' | 156°47' | 22 | 33 | 12 | 12 | | | | 3 | | | Moved farther inland to escape sea ice. |
| New Quonset Building | 4/2/55 | 11/7/66 | 150 ft. SE | 71° 18' | 156°47' | 22 | 39 | 12 | 12 | NA | NA | NA a6 c | 3 b d6 | NA | NA | a - Installed 10/14/59.<br>b - Removed 11/12/59.<br>c - Removed 12/21/61.<br>d - Installed 7' E of weighing rain gage site 12/31/61. |
| Weather Bureau Building+ Wiley Post-Will Rogers Airport<br>+Weather Service Bldg. (Effective 1970) | 11/7/66 | Present | 330 ft. SE | 71° 18' | 156°47' | 31 | 31 i Unk | 12 f | 12 g5 | NA | NA | NA | 6 | NA e5 h5 | NA | e - Commissioned 75' NW of inst. shelter 4/21/77.<br>f - Removed 2/6/78.<br>g - Minor move 2/6/78.<br>h - Type change 10/21/85.<br>i - Moved to ground 12/7/86. |
| | | | | | | | | | | | | | | | S | ASOS Commissioned 06/01/98 |

* Type
M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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