### Climatography of the United States
#### No. 20
#### 1971-2000

**Station:** LEWISTOWN MUNICIPAL AP, MT  
**Elevation:** 4,145 Feet  
**Lat:** 47°03N  
**Lon:** 109°28W  
**Coop ID:** 244985  

**Climate Division:** MT 4  
**NWS Call Sign:** LWT  

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#### Temperature (°F)

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+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05


Issue Date: February 2004

094-A
### Precipitation Totals

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### Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

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** Notes:
- + Also occurred on an earlier date(s)
- # Denotes amounts of a trace
- @ Denotes mean number of days greater than 0 but less than .05
- ** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals
(2) Derived from station’s available digital record: 1896-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

094-B
## Snow Totals

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+ Also occurred on an earlier date(s)  #Denotes trace amounts
@ Denotes mean number of days greater than 0 but less than .05
-9/-9.9 represents missing values
Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data
(2) Derived from 1971-2000 daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html
### Freeze Data

#### Spring Freeze Dates (Month/Day)

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<td>202</td>
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</tbody>
</table>

*Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html
### Degree Days to Selected Base Temperatures (°F)

#### Heating Degree Days (1)

<table>
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<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
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<th>Oct</th>
<th>Nov</th>
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#### Growing Degree Units for Corn (Accumulated Monthly)

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<th>Nov</th>
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(1) Derived from the 1971-2000 Monthly Normals
(2) Derived from 1971-2000 serially complete daily data

**Note:** For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html
Notes
a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.
b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.
c. Only observed validated values were used to select the extreme daily values.
d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.
   Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.
e. Degree Days were derived using the same techniques as the 1971-2000 normals.
   Complete documentation for the 1971-2000 Normals is available on the internet from:
   www.ncdc.noaa.gov/oa/climate/normals/usnormals.html
f. Mean “number of days statistics” for temperature and precipitation were calculated from a serially complete daily data set.
   Documentation of the serially complete data set is available from the link below:
g. Snowfall and snow depth statistics were derived from the Snow Climatology.
   Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables
Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station’s entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References
Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf