

# Climatography of the United States

No. 20

1971-2000

Station: LEWISTON AP, ID

COOP ID: 105241

Climate Division: ID 3

NWS Call Sign: LWS

Elevation: 1,436 Feet Lat: 46° 22N

Lon: 117° 01W

## Temperature (°F)

Mean (1)				Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	39.4	28.0	33.7	66	1953	9	41.3	1990	-22	1950	31	16.3	1979	962	0	.0	.0	5.2	6.5	19.4	.6
Feb	45.6	31.2	38.4	72	1986	24	47.7	1991	-15	1950	2	26.0	1989	742	0	.0	.0	11.3	2.4	14.5	.3
Mar	53.8	35.6	44.7	76+	1991	31	49.1	1992	2	1955	5	40.3	1976	616	0	.0	.0	23.8	.1	9.1	.0
Apr	61.6	40.6	51.1	97	1977	24	56.4+	1990	20	1966	19	45.9	1975	411	3	.0	.1	28.7	.0	2.8	.0
May	70.0	47.0	58.5	100	1983	29	63.0	1992	23	1954	1	54.1	1996	218	29	@	1.2	31.0	.0	.1	.0
Jun	78.0	53.6	65.8	107	1973	22	71.7	1977	34	1951	1	60.3	1991	71	105	.2	4.8	30.0	.0	.0	.0
Jul	87.6	59.3	73.5	110	1967	12	79.4	1985	41	1955	2	65.4	1993	10	283	3.3	15.3	31.0	.0	.0	.0
Aug	87.6	59.3	73.4	115	1961	4	77.7	1971	41	1992	24	68.1	1980	10	285	3.5	15.4	31.0	.0	.0	.0
Sep	76.7	50.9	63.8	103	1950	2	72.2	1990	28	1965	17	56.1	1985	104	84	.3	3.6	30.0	.0	.1	.0
Oct	62.0	41.2	51.6	89+	1987	2	58.0	1988	16	1971	29	47.8	1984	403	3	.0	.0	29.5	.0	2.6	.0
Nov	46.8	34.1	40.4	77	1999	12	46.4+	1990	-3+	1955	15	28.3	1985	722	0	.0	.0	13.1	1.3	11.3	.1
Dec	39.2	28.5	33.9	63	1965	28	39.8	1980	-22	1968	30	22.6	1985	951	0	.0	.0	4.5	5.6	20.6	.5
Ann	62.4	42.4	52.4	115	Aug 1961	4	79.4	Jul 1985	-22+	Dec 1968	30	16.3	Jan 1979	5220	792	7.3	40.4	269.1	15.9	80.5	1.5

+ Also occurred on an earlier date(s)

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

Complete documentation available from: [www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

058-A

# Climatography of the United States

## No. 20

### 1971-2000

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: LEWISTON AP, ID

COOP ID: 105241

Climate Division: ID 3

NWS Call Sign: LWS

Elevation: 1,436 Feet Lat: 46°22N

Lon: 117°01W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.14	.97	1.15	1956	15	2.81	1975	.14	1991	10.8	3.4	.4	.0	.29	.40	.56	.71	.85	1.01	1.18	1.38	1.64	2.06	2.45
Feb	.95	.74	.72	2000	14	2.22	2000	.17	1988	9.7	3.5	.2	.0	.21	.30	.44	.56	.69	.83	.98	1.16	1.40	1.78	2.14
Mar	1.12	1.05	.77	1962	26	2.70	1972	.28	1994	11.0	3.7	.2	.0	.42	.52	.67	.80	.92	1.04	1.17	1.32	1.52	1.81	2.09
Apr	1.31	1.13	.89	1978	1	3.29	1978	.10	1977	10.3	4.1	.4	.0	.26	.38	.57	.75	.92	1.11	1.33	1.59	1.93	2.48	3.00
May	1.56	1.40	1.32	1991	18	3.78	1998	.49	1992	10.0	4.8	.6	.1	.54	.69	.91	1.09	1.26	1.44	1.63	1.86	2.15	2.59	3.00
Jun	1.16	1.14	1.64	1956	15	2.60	1995	.24	1973	8.7	4.3	.2	@	.30	.41	.58	.73	.88	1.03	1.20	1.40	1.67	2.08	2.47
Jul	.72	.56	1.80	1998	10	2.60	1987	.01	1973	5.7	2.1	.3	@	.04	.08	.17	.27	.38	.51	.66	.86	1.15	1.62	2.10
Aug	.75	.65	1.36	1960	1	2.96	1989	.01+	1981	4.5	2.1	.5	.1	.02	.04	.11	.20	.32	.46	.64	.88	1.23	1.86	2.50
Sep	.81	.83	1.73	1955	14	2.48	2000	.00+	1999	5.5	3.0	.2	.0	.00	.04	.14	.26	.39	.55	.74	.98	1.32	1.90	2.48
Oct	.96	.96	1.09+	1973	31	2.40	1995	.00+	1987	7.1	3.3	.3	@	.00	.15	.34	.50	.65	.81	.99	1.20	1.48	1.94	2.38
Nov	1.21	1.06	1.22	1996	18	2.79	1973	.23	1976	11.2	4.1	.2	@	.33	.44	.62	.77	.92	1.08	1.26	1.46	1.74	2.16	2.56
Dec	1.05	.94	.87	1975	7	2.99	1973	.26	1976	10.6	3.8	.2	.0	.26	.36	.51	.65	.78	.92	1.08	1.27	1.51	1.90	2.26
Ann	12.74	12.41	1.80	Jul 1998	10	3.78	May 1998	.00+	Sep 1999	105.1	42.2	3.7	.2	8.87	9.62	10.57	11.30	11.94	12.57	13.21	13.93	14.80	16.07	17.17

+ 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: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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National Climatic Data Center  
Federal Building  
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**Station: LEWISTON AP, ID**

**COOP ID: 105241**

**Climate Division: ID 3**

**NWS Call Sign: LWS**

**Elevation: 1,436 Feet**

**Lat: 46°22N**

**Lon: 117°01W**

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	4.0	3.5	1	0	6.9	1980	9	15.5	1980	14+	1980	11	4	1979	4.1	1.3	.2	.1	.0	5.8	2.6	1.4	.2
Feb	2.4	1.4	#	0	5.0	1985	7	11.6	1985	7	1985	9	1+	1989	2.2	.7	.3	@	.0	3.0	.9	.2	.0
Mar	.8	.0	#	0	3.7	1989	2	6.7	1989	5	1989	2	#	1993	.8	.3	.1	.0	.0	.3	.1	@	.0
Apr	.1	.0	0	0	.6	1972	12	1.1	1972	#+	1979	1	0	0	.2	.0	.0	.0	.0	.0	.0	.0	.0
May	#	.0	#	0	#	1984	5	#+	1984	#	1973	9	#	1995	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.1	.0	#	0	1.2	1971	27	2.5	1971	1	1971	27	#	1971	.2	.1	.0	.0	.0	@	.0	.0	.0
Nov	1.8	.8	#	0	7.3	1988	14	9.3	1977	7	1977	23	1	1985	1.4	.6	.1	.1	.0	1.0	.2	.1	.0
Dec	3.3	2.8	#	0	3.8	1973	27	11.8	1984	5	1977	31	1+	1985	3.9	1.3	.1	.0	.0	4.0	.9	@	.0
Ann	12.5	8.5	N/A	N/A	7.3	Nov 1988	14	15.5	Jan 1980	14+	Jan 1980	11	4	Jan 1979	12.8	4.3	.8	.2	.0	14.1	4.7	1.7	.2

+ 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:

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Freeze Data									
Spring Freeze Dates (Month/Day)									
Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/18	5/12	5/07	5/03	4/30	4/26	4/22	4/17	4/11
32	5/01	4/24	4/20	4/16	4/12	4/08	4/05	3/31	3/25
28	4/15	4/06	3/30	3/24	3/18	3/13	3/07	2/28	2/18
24	3/19	3/09	3/02	2/24	2/18	2/12	2/06	1/30	1/20
20	3/10	2/26	2/17	2/09	2/02	1/25	1/17	1/08	12/24
16	2/20	2/12	2/06	1/31	1/26	1/21	1/15	1/08	12/25
Fall Freeze Dates (Month/Day)									
Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/26	10/01	10/04	10/07	10/09	10/12	10/15	10/18	10/22
32	10/05	10/11	10/15	10/19	10/22	10/26	10/29	11/03	11/09
28	10/20	10/27	11/02	11/06	11/11	11/15	11/19	11/25	12/02
24	10/27	11/06	11/13	11/19	11/25	12/01	12/07	12/14	12/24
20	11/07	11/17	11/24	11/30	12/05	12/11	12/17	12/25	1/06
16	11/16	11/27	12/05	12/12	12/19	12/26	1/02	1/12	1/30
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	189	180	173	167	162	156	151	144	134
32	222	212	204	198	192	186	180	173	163
28	274	261	252	244	237	229	222	212	200
24	321	306	296	287	279	271	262	252	238
20	>365	337	323	313	304	295	286	276	262
16	>365	360	343	333	325	318	311	303	292

\* 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:  
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**Elevation: 1,436 Feet    Lat: 46° 22N    Lon: 117° 01W**

Degree Days to Selected Base Temperatures (°F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	962	742	616	411	218	71	10	10	104	403	722	951	5220
60	816	604	474	279	105	30	3	3	69	271	587	810	4051
57	727	520	382	205	59	13	1	1	41	194	502	717	3362
55	668	468	321	162	37	7	0	0	27	148	447	655	2940
50	525	338	183	78	8	0	0	0	8	62	314	507	2023
32	143	44	1	0	0	0	0	0	0	0	37	104	329

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	156	225	407	585	834	1024	1296	1298	969	623	286	147	7850
55	0	1	2	42	158	337	583	585	289	49	2	0	2048
57	0	0	1	28	119	281	521	524	239	33	1	0	1747
60	0	0	0	13	74	204	429	432	170	16	0	0	1338
65	0	0	0	3	29	105	283	285	84	3	0	0	792
70	0	0	0	1	8	43	158	160	28	0	0	0	398

Growing Degree Units (2)																								
Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	39	76	183	354	594	794	1057	1059	738	389	109	35	39	115	298	652	1246	2040	3097	4156	4894	5283	5392	5427
45	2	22	76	215	440	644	902	904	588	244	41	6	2	24	100	315	755	1399	2301	3205	3793	4037	4078	4084
50	0	2	23	110	290	494	747	749	440	128	9	0	0	2	25	135	425	919	1666	2415	2855	2983	2992	2992
55	0	0	0	48	163	345	592	595	297	51	0	0	0	0	0	48	211	556	1148	1743	2040	2091	2091	2091
60	0	0	0	15	77	209	437	441	177	17	0	0	0	0	0	15	92	301	738	1179	1356	1373	1373	1373
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	4	30	93	203	347	485	665	672	449	218	39	6	4	34	127	330	677	1162	1827	2499	2948	3166	3205	3211

(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](http://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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html)  
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,  
[www1.ncdc.noaa.gov/pub/data/special/serialcomplete\\_jam\\_0900.pdf](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)