

Climatology of the United States

No. 20

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

Station: MIDDLE FORK LODGE, ID

1971-2000

COOP ID: 105897

Climate Division: ID 4

NWS Call Sign:

Elevation: 4,480 Feet Lat: 44°43N

Lon: 115°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	34.9	12.5	23.7	58	1978	6	28.9	1981	-23	1979	1	10.4	1979	1279	0	.0	.0	.3	11.3	30.8	4.9
Feb	41.9	15.5	28.7	64	1977	21	36.1	1991	-20+	1989	5	21.1+	1989	1016	0	.0	.0	3.7	4.8	28.1	2.6
Mar	50.8	23.1	37.0	74	1986	28	43.8	1992	-3	1976	5	30.0	1976	869	0	.0	.0	15.3	.6	29.4	.5
Apr	59.2	28.6	43.9	87	1987	28	49.4	1987	10	1982	2	37.7	1982	633	0	.0	.0	23.3	.0	22.9	.0
May	67.7	35.4	51.6	95	1986	29	57.4	1992	20+	1989	20	47.8	1984	419	1	.0	.2	29.7	.0	10.2	.0
Jun	76.5	41.1	58.8	100	1988	26	64.9	1977	22	1975	6	53.6	1975	210	24	@	2.5	29.9	.0	2.0	.0
Jul	85.9	45.5	65.7	103+	1985	10	71.4	1985	28	1986	19	58.0	1993	80	102	.6	11.3	31.0	.0	1.0	.0
Aug	85.0	44.0	64.5	104	1990	8	68.4	1981	28	1992	24	59.2	1975	93	77	.2	10.1	31.0	.0	.4	.0
Sep	75.7	36.4	56.1	98+	1998	5	62.3	1998	18	1992	15	51.2	1986	283	15	.0	1.9	29.7	.0	7.9	.0
Oct	62.3	28.4	45.4	86	1979	8	50.7	1988	4+	1971	30	41.7	1971	610	0	.0	.0	26.6	.1	23.4	.0
Nov	43.6	20.9	32.3	68	1985	4	37.1	1995	-10	1985	24	26.3	1985	983	0	.0	.0	6.9	3.5	28.1	.7
Dec	33.9	12.9	23.4	59	1975	5	30.8	1980	-28	1983	23	14.6	1983	1289	0	.0	.0	.6	13.7	30.5	3.3
Ann	59.8	28.7	44.3	104	Aug 1990	8	71.4	Jul 1985	-28	Dec 1983	23	10.4	Jan 1979	7764	219	.8	26.0	228.0	34.0	214.7	12.0

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1971-2001

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

067-A

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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	1.69	1.53	1.40	1976	6	4.71	1974	.17	1985	10.9	5.2	.7	.2	.28	.42	.67	.90	1.14	1.40	1.70	2.06	2.55	3.34	4.09
Feb	1.35	1.09	1.06	1996	24	4.73	1986	.18	1977	9.7	3.9	.5	@	.29	.41	.61	.79	.97	1.16	1.38	1.64	1.98	2.53	3.04
Mar	1.34	1.29	.83	1991	5	4.18	1974	.42	1979	10.7	4.7	.3	.0	.40	.52	.71	.88	1.04	1.20	1.39	1.60	1.88	2.32	2.72
Apr	1.51	1.44	.94	1998	5	3.25	1988	.25	1977	10.8	4.9	.5	.0	.41	.55	.77	.96	1.14	1.34	1.56	1.81	2.15	2.67	3.16
May	1.65	1.49	.85	1985	15	3.55	1996	.24	1992	11.1	5.5	.6	.0	.46	.61	.85	1.06	1.26	1.47	1.71	1.98	2.35	2.91	3.44
Jun	1.58	1.49	1.44	1986	5	3.86	1993	.30	1974	9.5	5.1	.5	.1	.41	.56	.79	.99	1.19	1.40	1.64	1.91	2.28	2.85	3.39
Jul	.95	.89	1.35	1975	29	2.37	1983	.00	1999	5.5	2.4	.5	.1	.06	.16	.31	.45	.59	.76	.94	1.18	1.49	2.00	2.50
Aug	.98	.70	.81	1973	23	4.64	1983	.00+	2000	6.8	2.9	.4	.0	.00	.10	.27	.43	.59	.76	.97	1.22	1.55	2.11	2.65
Sep	1.00	.87	.93+	2001	16	3.15	1982	.00+	1999	6.0	3.0	.5	.0	.00	.00	.21	.40	.58	.78	1.00	1.28	1.65	2.22	2.79
Oct	1.21	1.12	2.25	1975	21	5.45	1975	.00+	1987	7.2	3.9	.5	.1	.00	.17	.40	.59	.78	.99	1.23	1.51	1.89	2.50	3.09
Nov	1.88	1.55	2.02	1996	19	5.50	1973	.15	1976	10.9	5.3	.8	.1	.26	.42	.69	.95	1.22	1.52	1.87	2.29	2.86	3.80	4.70
Dec	1.74	1.45	1.28	1972	22	5.27	1996	.00	1986	10.7	4.9	.4	@	.13	.32	.60	.85	1.12	1.41	1.74	2.15	2.69	3.58	4.44
Ann	16.88	17.27	2.25	Oct 1975	21	5.50	Nov 1973	.00+	Aug 2000	109.8	51.7	6.2	.6	10.07	11.29	12.91	14.17	15.32	16.44	17.61	18.93	20.55	22.95	25.06

+ 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: 1971-2001

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

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

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Climate Division: ID 4

NWS Call Sign:

Elevation: 4,480 Feet

Lat: 44° 43N

Lon: 115° 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	11.5	9.8	7	6	19.0	1980	10	46.7	1980	26	1980	12	15	1993	6.5	4.4	1.4	.6	.1	26.9	22.8	18.6	10.8
Feb	7.3	7.3	6	7	13.0	1996	24	19.1	1975	20	1999	23	16	1975	4.8	3.3	.9	.1	@	22.7	16.7	12.9	5.3
Mar	3.5	2.0	3	1	7.0	1976	1	10.9	1997	14	1975	2	9	1975	3.3	1.7	.3	.1	.0	10.4	7.4	5.1	1.8
Apr	1.2	.5	#	#	7.2	1982	3	7.2	1982	8	1982	3	2	1975	1.4	.6	.1	.1	.0	1.2	.5	.2	.0
May	.2	.0	#	0	1.5	1977	4	1.5+	1996	1	1996	4	#+	1996	.2	.1	.0	.0	.0	@	.0	.0	.0
Jun	#	.0	0	0	#	1976	13	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	#	.0	#	0	#	1994	6	#	1994	#	1994	6	#	1994	.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	.9	.0	#	0	5.0	1996	20	9.0	1996	4+	1996	20	1	1991	.6	.5	.1	@	.0	.6	.1	.0	.0
Nov	7.2	5.5	1	1	10.0	1984	28	15.0+	1988	11	1984	28	2	1994	4.0	2.8	.7	.2	@	7.4	2.9	1.2	.2
Dec	10.5	10.0	4	2	10.0	1983	30	32.6	1996	20	1983	31	10	1983	6.0	4.5	.9	.4	@	22.2	16.4	10.3	1.8
Ann	42.3	35.1	N/A	N/A	19.0	Jan 1980	10	46.7	Jan 1980	26	Jan 1980	12	16	Feb 1975	26.8	17.9	4.4	1.5	.1	91.4	66.8	48.3	19.9

+ 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

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NWS Call Sign:

Elevation: 4,480 Feet

Lat: 44° 43N

Lon: 115° 01W

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	7/19	7/13	7/08	7/05	7/01	6/28	6/24	6/20	6/14
32	7/10	7/02	6/26	6/21	6/16	6/11	6/06	5/31	5/23
28	6/20	6/10	6/03	5/28	5/22	5/16	5/10	5/03	4/23
24	5/18	5/11	5/07	5/02	4/28	4/25	4/20	4/15	4/09
20	4/28	4/21	4/16	4/11	4/07	4/02	3/29	3/24	3/16
16	4/05	3/29	3/23	3/19	3/15	3/10	3/06	3/01	2/21
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	8/11	8/16	8/20	8/23	8/26	8/29	9/01	9/04	9/09
32	8/27	9/01	9/04	9/07	9/10	9/13	9/16	9/20	9/25
28	9/04	9/09	9/13	9/17	9/20	9/23	9/27	10/01	10/07
24	9/18	9/25	9/29	10/03	10/07	10/10	10/14	10/18	10/25
20	10/05	10/11	10/15	10/18	10/22	10/25	10/28	11/02	11/07
16	10/22	10/28	11/01	11/04	11/08	11/11	11/15	11/19	11/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	79	71	65	60	55	50	45	39	31
32	114	104	97	91	86	80	74	67	58
28	153	142	134	127	120	114	107	99	88
24	182	175	169	165	160	156	151	146	139
20	224	215	208	202	197	192	186	180	171
16	267	257	249	243	237	231	225	218	208

* 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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Climate Division: ID 4 NWS Call Sign: Elevation: 4,480 Feet Lat: 44° 43N Lon: 115° 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	1279	1016	869	633	419	210	80	93	283	610	983	1289	7764
60	1124	876	714	483	273	109	25	31	167	455	833	1134	6224
57	1031	792	621	396	193	64	11	14	112	364	743	1041	5382
55	969	736	559	340	148	42	5	7	82	305	683	979	4855
50	814	596	407	212	63	11	0	1	30	171	533	824	3662
32	290	158	37	6	0	0	0	0	0	1	100	308	900

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	34	66	191	364	605	804	1045	1007	722	414	108	43	5403
55	0	0	0	8	40	156	337	301	114	5	0	0	961
57	0	0	0	4	23	118	281	246	85	2	0	0	759
60	0	0	0	0	9	72	202	170	50	1	0	0	504
65	0	0	0	0	1	24	102	77	15	0	0	0	219
70	0	0	0	0	0	5	36	22	3	0	0	0	66

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	0	1	38	157	359	568	789	764	485	198	16	0	0	1	39	196	555	1123	1912	2676	3161	3359	3375	3375
45	0	0	5	70	221	419	634	609	341	94	1	0	0	0	5	75	296	715	1349	1958	2299	2393	2394	2394
50	0	0	0	20	113	277	479	454	209	35	0	0	0	0	0	20	133	410	889	1343	1552	1587	1587	1587
55	0	0	0	3	42	156	327	303	103	5	0	0	0	0	0	3	45	201	528	831	934	939	939	939
60	0	0	0	0	9	67	190	168	33	0	0	0	0	0	0	0	9	76	266	434	467	467	467	467
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	8	59	150	274	394	514	506	380	206	17	0	0	8	67	217	491	885	1399	1905	2285	2491	2508	2508

(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/normal/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
- 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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html
Snow Climatology Project Description, 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