U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: BEAVERHEAD R S, NM **COOP ID: 290818**

Climate Division: NM 4 **NWS Call Sign:** **Elevation: 6,670 Feet** **Lat: 33˚25N** **Lon: 108˚07W**

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	48.6	11.9	30.3	69	1953	10	35.1	1986	-22	1971	5	26.1	1988	1079	0	.0	.0	14.6	1.1	30.8	1.9
Feb	52.8	15.4	34.1	73+	1986	26	39.7	1996	-25	1965	12	29.6	1974	864	0	.0	.0	18.4	.5	27.5	.6
Mar	59.3	19.5	39.4	78+	1971	26	42.9	1989	-9	1950	5	34.2	1973	793	0	.0	.0	26.7	@	29.7	@
Apr	67.0	23.3	45.2	87	2000	28	51.1	1989	7	1963	1	38.8	1973	595	0	.0	.0	28.7	.0	26.3	.0
May	75.3	31.2	53.3	96	2000	30	59.0	2000	11	1964	9	49.1	1975	367	3	.0	.4	30.9	.0	16.1	.0
Jun	84.6	39.1	61.9	101	1994	28	67.2	1994	22	1951	3	58.2	1991	135	40	.1	5.4	30.0	.0	3.2	.0
Jul	85.2	47.7	66.5	100	1998	1	68.7	1980	33+	1995	3	64.1	1976	24	69	@	6.6	31.0	.0	.0	.0
Aug	82.3	47.1	64.7	94+	1986	9	67.8	1994	34+	1956	30	62.4	1979	52	43	.0	1.1	31.0	.0	.0	.0
Sep	78.2	39.4	58.8	97	2000	19	63.1	1997	25+	1965	30	55.7	1988	194	8	.0	.7	30.0	.0	2.9	.0
Oct	69.3	27.9	48.6	85	1996	13	51.5	1987	7	1970	28	43.8	1976	510	0	.0	.0	30.3	.0	21.1	.0
Nov	57.8	17.3	37.6	79	1988	6	42.5	1999	-11	1976	29	31.9	1992	824	0	.0	.0	23.8	.2	29.0	.2
Dec	49.8	11.9	30.9	70+	1950	12	34.8	1980	-24	1990	23	26.9	1974	1058	0	.0	.0	18.0	.6	30.3	1.3
Ann	67.5	27.6	47.6	101	Jun 1994	28	68.7	Jul 1980	-25	Feb 1965	12	26.1	Jan 1988	6495	163	.1	14.2	313.4	2.4	216.9	4.0

\+ 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/normals/usnormals.html

(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

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	.89	.85	1.08	1979	18	3.10	1979	.00	1996
Feb	.91	.83	1.00	1976	15	3.10	1976	.00	1999
Mar	.79	.66	1.09+	1977	29	2.18	1982	.00	1996
Apr	.36	.17	.83	1962	26	1.69	1985	.00+	1994
May	.73	.52	1.35	1973	14	3.93	1992	.00+	2000
Jun	.74	.39	1.60	1952	2	2.42	1986	.00+	1982
Jul	2.84	2.78	2.14	1984	17	5.37	1984	.70	1982
Aug	3.50	3.31	2.24	1988	7	9.93	1988	1.54	1979
Sep	2.20	1.97	3.78	1997	21	6.47	1997	.06	2000
Oct	1.65	1.24	2.15	1971	25	5.98	1972	.00+	1999
Nov	.93	.47	3.65	1994	12	4.86	1994	.00	1997
Dec	1.09	.62	2.37	1992	5	4.76	1984	.00+	1996
Ann	16.63	17.37	3.78	Sep 1997	21	9.93	Aug 1988	.00+	May 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.0	2.6	.4	@
Feb	4.7	2.1	.5	@
Mar	4.5	2.2	.4	.2
Apr	2.8	.9	.1	.0
May	4.3	2.1	.2	@
Jun	5.2	2.1	.2	.1
Jul	12.1	7.0	1.5	.2
Aug	13.5	8.5	2.0	.3
Sep	8.1	4.3	.9	.3
Oct	6.2	3.3	1.0	.4
Nov	3.7	2.2	.4	.1
Dec	4.1	2.6	.5	.1
Ann	74.2	39.9	8.1	1.7

Precipitation Probabilities (1)

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

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.03	.10	.23	.36	.50	.66	.85	1.09	1.43	1.98	2.53
Feb	.03	.09	.21	.34	.49	.65	.85	1.11	1.46	2.06	2.64
Mar	.04	.12	.24	.36	.48	.62	.78	.98	1.25	1.69	2.12
Apr	.00	.00	.02	.08	.14	.22	.32	.44	.61	.91	1.21
May	.00	.00	.03	.15	.28	.44	.64	.90	1.26	1.86	2.49
Jun	.00	.02	.10	.20	.32	.46	.65	.88	1.22	1.81	2.40
Jul	.84	1.11	1.52	1.87	2.21	2.56	2.95	3.41	4.00	4.92	5.78
Aug	1.22	1.55	2.03	2.44	2.83	3.22	3.66	4.16	4.81	5.81	6.73
Sep	.32	.50	.82	1.12	1.44	1.79	2.19	2.69	3.35	4.44	5.49
Oct	.00	.00	.22	.47	.75	1.08	1.49	2.02	2.75	4.02	5.28
Nov	.01	.05	.15	.27	.41	.59	.81	1.10	1.52	2.24	2.98
Dec	.00	.02	.11	.24	.41	.63	.90	1.27	1.81	2.77	3.76
Ann	11.06	12.11	13.47	14.51	15.44	16.35	17.29	18.34	19.62	21.48	23.11

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	4.2	3.4	1	#	8.0	1980	22	12.1	1987	11	1987	21	6	1997	2.3	1.9	.7	.3	.0	2.8	1.7	.5	.0
Feb	4.2	2.6	#	#	9.5	1979	5	20.0	1986	18	1986	9	4	1979	1.8	1.4	.5	.2	.0	1.5	.8	.6	.1
Mar	2.5	1.4	#	0	6.0	1984	5	7.1	1987	6	1984	5	#+	1998	1.6	1.0	.2	@	.0	.5	.1	@	.0
Apr	.3	.0	#	0	4.0	1983	8	4.0	1983	4	1983	8	#+	1999	.4	.2	@	.0	.0	.2	.1	.0	.0
May	#	.0	0	0	#	1979	10	#	1979	0	0	0	0	0	.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	.9	.0	#	0	8.0	1996	26	8.0	1996	8	1996	26	#+	1996	.2	.2	.1	@	.0	.2	.1	.1	.0
Nov	1.5	.0	#	0	7.0	1975	29	7.0	1975	7	1990	8	1	1990	.6	.5	.2	@	.0	.6	.1	.1	.0
Dec	4.2	2.2	1	#	12.0	1987	26	16.0	1990	24	1987	26	4	1987	2.1	1.7	.8	.4	.1	2.8	1.4	.8	.2
Ann	17.8	9.6	N/A	N/A	12.0	Dec 1987	26	20.0	Feb 1986	24	Dec 1987	26	6	Jan 1997	9.0	6.9	2.5	.9	.1	8.6	4.3	2.1	.3

+ 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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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	7/12	7/06	7/01	6/27	6/23	6/20	6/16	6/11	6/04
32	6/23	6/18	6/14	6/11	6/08	6/04	6/01	5/28	5/23
28	6/13	6/07	6/03	5/30	5/26	5/23	5/19	5/15	5/09
24	5/25	5/20	5/16	5/13	5/09	5/06	5/03	4/29	4/23
20	5/08	5/03	4/29	4/26	4/23	4/19	4/16	4/12	4/07
16	4/27	4/20	4/15	4/11	4/07	4/04	3/31	3/26	3/19

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	9/01	9/06	9/10	9/13	9/16	9/19	9/22	9/25	10/01
32	9/14	9/18	9/21	9/23	9/26	9/28	9/30	10/03	10/07
28	9/26	9/30	10/02	10/05	10/07	10/09	10/11	10/14	10/18
24	10/06	10/10	10/14	10/16	10/19	10/21	10/24	10/27	10/31
20	10/10	10/15	10/19	10/23	10/26	10/29	11/01	11/05	11/10
16	10/19	10/24	10/28	11/01	11/04	11/07	11/11	11/15	11/20

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	108	100	94	89	84	79	74	68	59
32	127	121	117	113	109	106	102	97	91
28	154	147	141	137	133	129	124	119	111
24	182	175	170	166	162	158	153	148	141
20	210	202	196	190	185	181	175	169	161
16	238	229	222	215	210	204	198	191	181

***** 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

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1079	864	793	595	367	135	24	52	194	510	824	1058	6495
60	924	724	638	445	227	56	2	6	83	356	674	903	5038
57	831	640	545	359	156	28	0	1	41	267	584	810	4262
55	769	584	483	303	116	16	0	0	23	212	524	748	3778
50	614	444	330	178	45	3	0	0	3	99	375	593	2684
32	110	52	10	2	0	0	0	0	0	0	22	93	289

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	54	112	240	397	659	894	1068	1014	804	513	188	58	6001
55	0	0	0	8	62	220	355	301	137	12	0	0	1095
57	0	0	0	4	39	172	293	240	95	5	0	0	848
60	0	0	0	1	18	111	201	152	48	1	0	0	532
65	0	0	0	0	3	40	69	43	8	0	0	0	163
70	0	0	0	0	0	8	7	3	0	0	0	0	18

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	1	19	75	203	431	675	844	789	601	293	45	10	1	20	95	298	729	1404	2248	3037	3638	3931	3976	3986
45	0	1	19	96	280	525	689	634	451	158	9	0	0	1	20	116	396	921	1610	2244	2695	2853	2862	2862
50	0	0	0	28	146	375	534	479	301	57	0	0	0	0	0	28	174	549	1083	1562	1863	1920	1920	1920
55	0	0	0	2	50	229	379	324	161	10	0	0	0	0	0	2	52	281	660	984	1145	1155	1155	1155
60	0	0	0	0	9	106	225	170	58	0	0	0	0	0	0	0	9	115	340	510	568	568	568	568
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	46	79	159	263	390	496	542	512	432	295	132	65	46	125	284	547	937	1433	1975	2487	2919	3214	3346	3411

(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

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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.
Compete 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
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   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

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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