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: HULETT, WY **COOP ID: 484760**

Climate Division: WY 6 **NWS Call Sign:** **Elevation: 3,758 Feet** **Lat: 44˚41N** **Lon: 104˚36W**

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	31.3	6.7	19.0	65	1954	7	28.1	1981	-44	1949	24	3.9	1979	1426	0	.0	.0	1.9	10.4	30.8	6.8
Feb	38.4	13.1	25.8	70	1951	10	34.8	1991	-38	1996	2	12.3	1989	1100	0	.0	.0	5.2	8.1	27.5	4.1
Mar	46.7	20.4	33.6	76	1993	25	41.6	1986	-27	1996	8	24.2	1996	976	0	.0	.0	13.4	4.8	28.9	1.7
Apr	56.6	29.8	43.2	85+	1962	24	50.0	1981	-2+	1997	11	36.7	1997	654	0	.0	.0	21.6	.9	19.8	.1
May	67.0	39.8	53.4	98	1969	27	58.7	1977	8	1954	1	48.6	1995	363	4	.0	.3	28.9	.0	4.6	.0
Jun	78.1	49.0	63.6	103	1961	29	72.6	1988	24	1950	3	57.0	1998	121	78	.1	2.7	29.9	.0	.6	.0
Jul	85.4	53.8	69.6	103+	1960	20	73.0	1989	35	1958	6	62.5	1993	33	175	1.0	10.9	31.0	.0	.0	.0
Aug	84.9	51.6	68.3	102+	1969	11	74.4	1983	25	1951	24	62.9	1992	54	154	.3	9.1	30.9	.0	.1	.0
Sep	74.6	41.2	57.9	100	1998	5	64.7	1998	17	1958	30	51.2	1993	243	30	.1	2.5	29.0	.0	4.7	.0
Oct	61.2	31.2	46.2	95	1953	1	49.1	1975	-16+	1991	31	42.4	1991	582	0	.0	@	24.9	.6	17.0	@
Nov	42.7	19.2	31.0	78	1999	1	41.7	1999	-23	1959	16	16.5	1985	1022	0	.0	.0	10.2	6.0	27.5	1.6
Dec	34.3	10.2	22.3	65	1998	2	30.0	1999	-33	1964	17	5.2	1983	1325	0	.0	.0	3.3	10.6	30.7	5.1
Ann	58.4	30.5	44.5	103+	Jun 1961	29	74.4	Aug 1983	-44	Jan 1949	24	3.9	Jan 1979	7899	441	1.5	25.5	230.2	41.4	192.2	19.4

\+ 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

Issue Date: February 2004

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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	.60	.49	.75	1949	4	1.59	1971	.11	1995
Feb	.57	.52	.77	2000	25	1.39	1998	.06	1992
Mar	1.08	1.07	.91	1972	24	2.05	1983	.31	1978
Apr	1.76	1.56	1.86	1992	19	3.38	1973	.38	1987
May	2.44	2.07	2.47	1995	9	5.46	1995	.72	1980
Jun	2.87	2.77	3.21	1993	8	7.76	1993	.87	1996
Jul	1.92	1.89	3.10	1962	13	3.41	1999	.35	1971
Aug	1.28	1.25	2.26	1960	17	2.80	1972	.25+	2000
Sep	1.11	.90	2.20	1971	5	3.03	1971	.23	1975
Oct	1.75	1.02	3.80	1971	2	6.65	1998	.25	1987
Nov	.82	.66	2.34	2000	1	4.18	2000	.13	1975
Dec	.70	.70	.57	1996	2	1.64	1996	.04	1991
Ann	16.90	16.01	3.80	Oct 1971	2	7.76	Jun 1993	.04	Dec 1991

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.6	1.5	@	.0
Feb	6.3	1.7	.1	.0
Mar	8.6	2.8	.4	@
Apr	9.8	4.9	1.0	.2
May	12.7	6.9	1.6	.2
Jun	13.2	6.6	1.5	.5
Jul	9.9	5.1	1.1	.3
Aug	8.4	3.5	.5	.1
Sep	7.1	3.4	.5	.2
Oct	7.4	3.7	.8	.4
Nov	7.4	2.3	.2	@
Dec	9.1	2.5	.1	.0
Ann	106.5	44.9	7.8	1.9

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	.14	.20	.29	.36	.44	.52	.62	.73	.87	1.10	1.32
Feb	.10	.15	.23	.31	.39	.48	.58	.70	.86	1.12	1.37
Mar	.38	.48	.63	.75	.87	.99	1.12	1.28	1.47	1.78	2.06
Apr	.52	.69	.94	1.16	1.37	1.59	1.83	2.11	2.48	3.06	3.59
May	.80	1.04	1.38	1.67	1.94	2.23	2.55	2.91	3.39	4.12	4.80
Jun	.95	1.22	1.62	1.96	2.29	2.62	2.99	3.42	3.97	4.83	5.62
Jul	.74	.92	1.17	1.38	1.58	1.79	2.01	2.26	2.58	3.08	3.53
Aug	.40	.52	.70	.86	1.00	1.16	1.33	1.53	1.79	2.19	2.56
Sep	.30	.40	.56	.70	.84	.98	1.14	1.33	1.58	1.96	2.32
Oct	.16	.28	.52	.76	1.02	1.33	1.68	2.13	2.75	3.77	4.78
Nov	.13	.20	.32	.43	.55	.67	.82	1.00	1.24	1.64	2.01
Dec	.11	.17	.27	.37	.47	.58	.70	.85	1.05	1.38	1.69
Ann	11.36	12.40	13.76	14.79	15.72	16.62	17.55	18.59	19.86	21.70	23.31

\+ 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:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	15.2	15.0	5	6
Feb	8.1	7.3	5	2
Mar	8.8	9.0	3	2
Apr	9.1	7.5	1	#
May	.9	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	#	.0	0	0
Oct	3.1	1.0	#	#
Nov	9.1	8.3	2	1
Dec	9.4	7.6	3	1
Ann	63.7	55.7	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	6.5	1971	30	31.1	1971	20	1973	1	10	1994
Feb	8.0	1998	25	16.0	1998	20	1994	1	14	1994
Mar	11.0	1973	14	15.1	1973	16	1998	6	8	1996
Apr	21.0	1994	26	24.5	1973	13+	1997	12	4	1997
May	5.0	1975	20	5.3	1975	3	1975	1	#+	1996
Jun	.5	1973	18	.5	1973	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	#	1972	25	#	1972	0	0	0	0	0
Oct	9.0	1971	2	10.0	1991	8	1971	30	1	1998
Nov	10.0	1999	19	16.6	1971	12	2000	8	7	2000
Dec	10.0	1972	29	35.3	1972	24	1972	31	9	1996
Ann	21.0	Apr 1994	26	35.3	Dec 1972	24	Dec 1972	31	14	Feb 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.2	5.7	1.2	.2	.0
Feb	4.0	3.2	1.1	.4	.0
Mar	4.3	4.0	1.4	.5	.1
Apr	2.6	2.2	1.3	.7	.1
May	.4	.3	.2	.1	.0
Jun	.1	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	1.3	1.1	.5	.2	.0
Nov	4.5	3.6	.9	.5	.2
Dec	3.8	3.2	1.0	.3	.2
Ann	28.2	23.3	7.6	2.9	.6

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-9.9	-9.9
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.9	.6	.2	.0
Nov	8.5	4.2	1.7	.1
Dec	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	-9.9	-9.9

+ 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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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	6/29	6/22	6/17	6/13	6/09	6/05	5/31	5/26	5/19
32	6/18	6/10	6/05	5/31	5/27	5/23	5/18	5/12	5/05
28	5/24	5/18	5/13	5/10	5/06	5/03	4/29	4/25	4/19
24	5/06	5/02	4/29	4/27	4/24	4/22	4/19	4/17	4/12
20	4/28	4/24	4/21	4/18	4/16	4/13	4/10	4/07	4/03
16	4/19	4/12	4/08	4/04	4/01	3/28	3/24	3/20	3/14

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	9/03	9/06	9/08	9/10	9/12	9/13	9/15	9/17	9/20
32	9/07	9/11	9/13	9/16	9/18	9/20	9/22	9/25	9/28
28	9/11	9/17	9/21	9/25	9/28	10/02	10/05	10/10	10/15
24	9/17	9/24	9/28	10/03	10/06	10/10	10/14	10/19	10/26
20	10/01	10/07	10/12	10/15	10/19	10/22	10/26	10/30	11/06
16	10/14	10/20	10/25	10/29	11/02	11/06	11/10	11/15	11/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	115	108	103	98	94	90	86	80	73
32	140	131	124	118	113	108	102	96	87
28	172	162	155	150	144	139	133	126	117
24	189	181	174	169	164	159	154	148	139
20	207	200	194	190	186	181	177	171	164
16	239	231	225	220	215	210	204	198	190

***** 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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1426	1100	976	654	363	121	33	54	243	582	1022	1325	7899
60	1271	960	821	505	227	52	8	17	138	427	872	1170	6468
57	1178	876	728	419	158	27	2	7	89	336	782	1077	5679
55	1116	820	666	363	119	16	0	4	63	276	722	1015	5180
50	962	691	516	235	49	3	0	0	20	146	585	862	4069
32	458	281	110	12	0	0	0	0	0	3	185	371	1420

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	55	105	157	347	664	947	1165	1123	777	444	153	69	6006
55	0	0	0	9	70	274	452	414	150	4	0	0	1373
57	0	0	0	5	47	224	392	355	116	2	0	0	1141
60	0	0	0	1	23	160	305	272	75	0	0	0	836
65	0	0	0	0	4	78	175	154	30	0	0	0	441
70	0	0	0	0	0	28	83	70	9	0	0	0	190

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	6	44	169	433	680	944	901	540	239	40	1	0	6	50	219	652	1332	2276	3177	3717	3956	3996	3997
45	0	0	14	89	292	531	789	746	400	134	11	0	0	0	14	103	395	926	1715	2461	2861	2995	3006	3006
50	0	0	2	38	176	382	634	592	268	62	0	0	0	0	2	40	216	598	1232	1824	2092	2154	2154	2154
55	0	0	0	13	88	247	480	438	162	21	0	0	0	0	0	13	101	348	828	1266	1428	1449	1449	1449
60	0	0	0	0	33	135	328	292	82	4	0	0	0	0	0	0	33	168	496	788	870	874	874	874
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	10	56	144	277	436	599	568	367	195	45	7	0	10	66	210	487	923	1522	2090	2457	2652	2697	2704

(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:
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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