

Climatology of the United States

No. 20

1971-2000

Station: DEEVER, WY

COOP ID: 482415

Climate Division: WY 4

NWS Call Sign:

Elevation: 4,105 Feet Lat: 44° 53N

Lon: 108° 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	28.9	2.8	15.9	63+	1974	16	27.5	1981	-37	1951	29	-4.8	1979	1525	0	.0	.0	1.6	15.0	30.7	10.6
Feb	37.7	9.6	23.7	74	1999	25	34.6	1999	-36	1989	3	8.0	1989	1158	0	.0	.0	6.1	7.3	28.2	4.8
Mar	49.9	20.4	35.2	82	1960	22	43.1	1992	-18+	1965	25	24.5	1996	927	0	.0	.0	18.1	2.2	28.7	.9
Apr	60.4	29.0	44.7	87+	1980	21	51.5	1987	6+	1986	14	36.8	1975	609	0	.0	.0	25.4	.3	19.7	.0
May	70.2	39.4	54.8	98	1964	21	59.3	1994	14	1954	3	50.1	1975	325	8	.0	.3	30.1	.0	4.9	.0
Jun	80.4	47.8	64.1	102+	1990	30	73.2	1988	27	1951	1	57.3	1998	111	84	.1	5.2	29.9	.0	.3	.0
Jul	87.5	53.1	70.3	105+	1989	4	74.8	1998	35+	1972	4	61.9	1993	29	192	.6	13.6	31.0	.0	.0	.0
Aug	86.1	50.8	68.5	104	1983	7	73.3	1971	25	1976	27	64.3	1993	50	158	.3	13.2	31.0	.0	.1	.0
Sep	74.4	40.0	57.2	102	1950	4	65.5	1998	17+	1985	30	52.3	1985	260	27	.0	2.4	29.3	.0	4.4	.0
Oct	61.7	29.4	45.6	89+	2001	1	50.7	1988	-6	1991	30	42.3	1971	602	0	.0	.0	27.0	.4	19.7	@
Nov	43.0	16.0	29.5	73+	1999	9	39.1	1999	-23	1975	30	14.2	1985	1064	0	.0	.0	9.9	5.3	28.9	2.3
Dec	31.7	5.6	18.7	63+	1999	1	25.9	1997	-38	1990	22	5.0	1983	1436	0	.0	.0	2.0	13.1	30.9	7.3
Ann	59.3	28.7	44.0	105+	Jul 1989	4	74.8	Jul 1998	-38	Dec 1990	22	-4.8	Jan 1979	8096	469	1.0	34.7	241.4	43.6	196.5	25.9

+ 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: 1948-2001

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

029-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: DEAVER, WY

COOP ID: 482415

Climate Division: WY 4

NWS Call Sign:

Elevation: 4,105 Feet Lat: 44°53N

Lon: 108°36W

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	.17	.09	.48	1972	2	.78	1972	.00+	1999	2.4	.5	.0	.0	.00	.00	.00	.00	.03	.08	.13	.20	.30	.47	.64
Feb	.10	.04	.66	1997	2	.66	1997	.00+	1998	2.1	.4	@	.0	.00	.00	.00	.00	.01	.03	.07	.11	.18	.31	.44
Mar	.24	.16	.86	2000	29	.99	2000	.00+	1999	1.7	.8	.1	.0	.00	.00	.00	.04	.09	.15	.22	.30	.41	.61	.79
Apr	.35	.26	.82	1964	26	1.11	1975	.00+	1988	3.1	1.3	.1	.0	.00	.00	.07	.12	.19	.25	.34	.44	.58	.82	1.05
May	1.10	.84	2.33	1988	7	3.59	1981	.06	1973	5.7	2.9	.6	.1	.13	.22	.37	.53	.69	.87	1.08	1.34	1.69	2.27	2.84
Jun	.99	.70	1.62	1969	25	5.24	1998	.00	1990	5.4	2.9	.6	@	.01	.06	.17	.30	.46	.65	.89	1.19	1.63	2.38	3.14
Jul	.75	.51	2.01	1961	26	3.41	1993	.00+	1991	4.1	2.3	.3	.1	.00	.00	.13	.25	.38	.53	.71	.94	1.25	1.77	2.28
Aug	.59	.49	1.25	1964	20	1.53	1977	.00+	1991	3.9	2.0	.2	.0	.00	.11	.23	.32	.41	.51	.61	.73	.90	1.16	1.40
Sep	.56	.51	.92	1994	15	1.89	1973	.00+	1990	3.4	1.7	.4	.0	.00	.00	.08	.18	.28	.40	.54	.71	.95	1.33	1.71
Oct	.38	.35	.80	1997	8	1.08	1975	.00+	1990	2.5	1.3	.1	.0	.00	.00	.09	.16	.22	.29	.38	.48	.61	.84	1.06
Nov	.16	.11	.41	1991	13	.60	1978	.00+	1990	1.6	.5	.0	.0	.00	.00	.00	.02	.06	.10	.15	.20	.28	.40	.52
Dec	.13	.05	.41	1985	12	.59	1989	.00+	1995	1.5	.5	.0	.0	.00	.00	.00	.00	.03	.07	.11	.16	.23	.35	.47
Ann	5.52	5.26	2.33	May 1988	7	5.24	Jun 1998	.00+	Mar 1999	37.4	17.1	2.4	.2	3.05	3.49	4.06	4.52	4.94	5.35	5.78	6.27	6.88	7.78	8.58

+ 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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Station: DEAYER, WY

COOP ID: 482415

Climate Division: WY 4

NWS Call Sign:

Elevation: 4,105 Feet

Lat: 44° 53N

Lon: 108° 36W

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	2.9	.9	2	1	9.0	1971	7	11.4	1972	14	1979	4	13	1979	1.7	1.1	.3	.2	.0	3.7	1.9	1.1	.0
Feb	1.2	.0	1	#	3.0	1978	11	12.0	1978	11	1978	28	7	1978	.8	.6	.1	.0	.0	4.1	.3	.1	.0
Mar	1.3	.3	#	#	4.0	1977	25	6.0+	1996	11	1978	4	4	1978	.9	.6	.2	.0	.0	1.1	.5	.0	.0
Apr	1.0	.0	#	0	12.0	1973	21	12.1	1973	13	1973	21	1	1973	.4	.3	.2	@	@	.2	.1	.0	.0
May	.2	.0	#	0	4.0	1984	6	4.0	1984	#+	2000	12	#+	2000	@	@	@	.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	#	1996	19	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.5	.0	#	0	8.0	1984	23	11.0	1984	#+	2000	23	#+	2000	.1	.1	.1	@	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	2.5	1995	29	2.5	1995	3	1995	29	#+	1997	.2	.2	.0	.0	.0	.4	@	.0	.0
Nov	1.5	.2	#	#	4.0	1975	25	10.0	1978	8	1978	30	5	1978	.9	.6	.2	.0	.0	1.8	.7	.7	.0
Dec	1.5	.0	1	#	5.0	1978	1	7.0	1999	14	1978	23	12	1978	.9	.7	.2	@	.0	2.9	.9	.2	.0
Ann	10.5	1.4	N/A	N/A	12.0	Apr 1973	21	12.1	Apr 1973	14+	Jan 1979	4	13	Jan 1979	5.9	4.2	1.3	.2	@	14.2	4.4	2.1	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-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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NWS Call Sign:

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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	6/21	6/15	6/11	6/08	6/05	6/01	5/29	5/25	5/19
32	6/04	5/29	5/25	5/22	5/19	5/16	5/12	5/08	5/03
28	5/20	5/15	5/12	5/08	5/05	5/03	4/29	4/26	4/20
24	5/09	5/04	5/01	4/29	4/26	4/24	4/21	4/18	4/14
20	4/30	4/26	4/22	4/20	4/17	4/14	4/11	4/08	4/04
16	4/21	4/16	4/11	4/08	4/04	4/01	3/28	3/24	3/18
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	8/29	9/02	9/05	9/08	9/11	9/13	9/16	9/19	9/23
32	9/06	9/10	9/13	9/15	9/18	9/20	9/22	9/25	9/29
28	9/10	9/16	9/20	9/23	9/26	9/30	10/03	10/07	10/12
24	9/25	9/29	10/02	10/04	10/07	10/09	10/11	10/14	10/18
20	10/02	10/07	10/11	10/14	10/16	10/19	10/22	10/26	10/31
16	10/14	10/19	10/23	10/26	10/28	10/31	11/03	11/06	11/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	119	112	106	101	97	93	88	83	75
32	144	136	131	126	121	116	112	106	98
28	167	159	153	148	143	138	133	128	119
24	179	173	169	166	163	159	156	152	147
20	204	196	191	186	182	177	173	167	159
16	232	223	217	211	206	201	196	189	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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NWS Call Sign:

Elevation: 4,105 Feet Lat: 44° 53N Lon: 108° 36W

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	1525	1158	927	609	325	111	29	50	260	602	1064	1436	8096
60	1370	1018	772	461	196	46	7	15	152	447	914	1281	6679
57	1277	934	679	376	132	23	1	6	100	355	824	1188	5895
55	1215	878	617	322	98	13	0	3	72	295	766	1126	5405
50	1060	743	473	200	37	2	0	0	25	163	626	971	4300
32	552	315	97	7	0	0	0	0	0	5	216	456	1648

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	50	81	193	388	706	963	1187	1131	756	426	142	43	6066
55	0	0	1	12	90	287	474	421	139	3	2	0	1429
57	0	0	0	7	63	236	413	362	106	1	0	0	1188
60	0	0	0	2	33	169	326	278	68	0	0	0	876
65	0	0	0	0	8	84	192	158	27	0	0	0	469
70	0	0	0	0	1	31	96	72	8	0	0	0	208

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	2	3	57	211	482	736	955	907	555	227	26	2	2	5	62	273	755	1491	2446	3353	3908	4135	4161	4163
45	0	0	18	113	333	586	800	752	410	123	5	0	0	0	18	131	464	1050	1850	2602	3012	3135	3140	3140
50	0	0	0	50	208	438	645	598	277	54	0	0	0	0	0	50	258	696	1341	1939	2216	2270	2270	2270
55	0	0	0	16	107	294	490	444	163	14	0	0	0	0	0	16	123	417	907	1351	1514	1528	1528	1528
60	0	0	0	3	41	168	337	293	76	1	0	0	0	0	0	3	44	212	549	842	918	919	919	919
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	19	85	198	331	465	597	569	393	212	38	2	0	19	104	302	633	1098	1695	2264	2657	2869	2907	2909

(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/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