

# 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: CRATERS OF THE MOON, ID

1971-2000

COOP ID: 102260

Climate Division: ID 9

NWS Call Sign:

Elevation: 5,897 Feet Lat: 43° 28N

Lon: 113° 33W

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	29.7	10.6	20.2	58	1971	19	28.3	1981	-24	1963	12	10.3	1979	1391	0	.0	.0	.1	19.8	30.8	5.5
Feb	35.0	14.3	24.7	60	1982	20	35.3	1991	-19	1982	5	12.7	1985	1129	0	.0	.0	.9	10.9	27.9	2.8
Mar	43.2	21.3	32.3	67	1986	28	42.3	1992	-18	1979	3	24.5	1971	1015	0	.0	.0	6.4	3.0	29.3	.4
Apr	55.2	29.1	42.2	83	1988	17	50.6	1987	7+	1982	7	32.9	1975	686	0	.0	.0	19.5	.1	22.0	.0
May	65.4	37.1	51.3	88	1988	16	59.4	1992	15	1968	6	46.6+	1977	431	3	.0	.0	28.8	.0	9.0	.0
Jun	75.8	44.7	60.3	98	1988	25	66.6	1988	25+	1973	18	55.6+	1998	190	47	.0	1.3	29.9	.0	1.6	.0
Jul	84.9	51.9	68.4	100	1996	8	73.2	1989	30	1981	8	59.6	1993	53	159	@	6.8	31.0	.0	.1	.0
Aug	84.1	50.7	67.4	98	2000	1	72.7	1981	30+	1964	29	62.2	1976	62	136	.0	5.3	31.0	.0	.1	.0
Sep	73.1	41.1	57.1	92+	1995	2	64.2	1990	16+	1972	25	48.9	1985	270	33	.0	.2	29.2	.0	4.7	.0
Oct	59.8	31.3	45.6	85	1992	1	54.4	1988	2+	1971	29	40.0	1984	604	0	.0	.0	24.9	.3	16.9	.0
Nov	40.8	19.9	30.4	66+	1988	1	38.4	1999	-11+	1985	23	21.8	1985	1040	0	.0	.0	5.6	6.7	28.5	.9
Dec	30.6	11.1	20.9	52	1958	3	28.2	1980	-37	1983	24	12.3	1990	1370	0	.0	.0	.1	18.0	30.7	4.7
Ann	56.5	30.3	43.4	100	Jul 1996	8	73.2	Jul 1989	-37	Dec 1983	24	10.3	Jan 1979	8241	378	@	13.6	207.4	58.8	201.6	14.3

+ 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: 1958-2001

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

025-A

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**NWS Call Sign:**

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**Lon: 113°33W**

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	1.76	1.33	2.98	1969	21	6.34	1980	.08	1991	8.1	4.2	1.0	.2	.23	.38	.63	.87	1.13	1.42	1.75	2.15	2.70	3.60	4.47
Feb	1.65	1.48	2.32	1963	1	5.53	1999	.00+	1991	7.6	4.5	.8	.1	.00	.18	.48	.74	1.01	1.31	1.65	2.06	2.62	3.53	4.42
Mar	1.35	1.14	1.24	1964	12	3.44	1995	.00	1994	7.0	3.8	.7	.1	.11	.26	.48	.68	.88	1.10	1.36	1.67	2.09	2.77	3.42
Apr	1.12	.90	2.05	1981	20	4.03	1978	.10	1974	6.0	2.7	.3	.1	.09	.17	.32	.48	.65	.84	1.08	1.37	1.77	2.45	3.12
May	1.80	1.60	1.72	1962	15	5.40	1980	.14	1974	9.5	5.2	.7	.1	.32	.48	.75	.99	1.25	1.52	1.83	2.20	2.70	3.50	4.26
Jun	1.12	.91	1.78	1963	10	3.70	1993	.05	1974	7.2	3.3	.4	.1	.07	.14	.27	.43	.60	.80	1.04	1.35	1.79	2.52	3.25
Jul	.81	.56	1.11	1987	17	3.40	1987	.00	1999	4.8	2.2	.4	.1	.02	.08	.18	.30	.43	.58	.76	.99	1.31	1.85	2.38
Aug	.78	.53	1.30	1968	20	2.85	1983	.00	1996	5.0	2.4	.4	.0	.02	.06	.16	.27	.39	.54	.72	.95	1.27	1.82	2.37
Sep	.85	.70	1.40	1976	11	2.09	1985	.00+	1987	4.5	2.1	.4	.1	.00	.06	.20	.33	.47	.63	.82	1.05	1.38	1.92	2.45
Oct	.93	.97	1.80	1979	19	2.59	2000	.00+	1990	5.2	2.6	.5	.1	.00	.07	.22	.37	.52	.70	.90	1.15	1.50	2.07	2.63
Nov	1.48	.94	1.35	1988	23	4.48	1973	.00	1976	7.1	4.0	.7	.1	.11	.27	.51	.72	.95	1.20	1.48	1.83	2.30	3.06	3.79
Dec	1.57	1.32	2.79	1964	22	4.25	1996	.08	1986	7.6	4.4	.6	.1	.17	.29	.51	.72	.96	1.22	1.53	1.91	2.43	3.30	4.14
Ann	15.22	14.71	2.98	Jan 1969	21	6.34	Jan 1980	.00+	Jul 1999	79.6	41.4	6.9	1.2	9.19	10.29	11.73	12.85	13.87	14.86	15.90	17.07	18.51	20.63	22.50

+ 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: 1958-2001

(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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**Climate Division: ID 9**

**NWS Call Sign:**

**Elevation: 5,897 Feet**

**Lat: 43°28N**

**Lon: 113°33W**

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	20.2	18.4	21	20	23.0	1982	21	41.8	1978	66	1971	16	51	1989	6.9	5.4	2.4	1.4	.4	28.4	28.0	24.7	19.2
Feb	19.1	17.5	25	24	20.0	1985	8	50.0	1993	70	1993	25	48	1993	6.4	5.3	2.6	1.3	.2	-9.9	-9.9	-9.9	-9.9
Mar	10.2	9.4	16	12	14.0	1982	18	44.0	1983	61	1993	2	48	1993	3.4	3.1	1.4	.6	.1	16.8	16.0	14.8	10.1
Apr	2.7	1.0	3	#	9.0	1991	29	17.0	1991	44	1975	9	35	1975	1.2	1.0	.3	.1	.0	2.1	1.6	1.5	1.2
May	2.1	.0	#	0	5.0	1975	20	12.5	1975	21	1975	1	4	1975	.9	.8	.4	@	.0	.6	.4	.3	.2
Jun	.0	.0	#	0	1.0	1998	16	1.0	1998	1	1990	12	#+	1990	@	@	.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	.2	.0	#	0	4.0	1971	30	4.0	1971	#+	1993	17	#+	1993	.1	@	@	.0	.0	.0	.0	.0	.0
Oct	1.6	.5	#	0	4.5	1991	28	8.0	1991	7	1991	31	1	1991	.8	.6	.2	.0	.0	.7	.2	.2	.0
Nov	10.0	10.0	3	2	13.0	1984	24	32.0	1994	23	1984	30	11	1982	4.2	3.5	1.5	.5	.2	11.1	8.1	5.6	2.0
Dec	20.4	15.9	12	7	14.0	1982	21	55.4	1982	48+	1988	31	33	1983	6.5	5.2	2.7	.9	.2	21.2	19.8	16.8	7.5
Ann	86.5	72.7	N/A	N/A	23.0	Jan 1982	21	55.4	Dec 1982	70	Feb 1993	25	51	Jan 1989	30.4	24.9	11.5	4.8	1.1	-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

Complete documentation available from:

[www.ncdc.noaa.gov/oa/climate/normals/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normals/usnormals.html)

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**Elevation: 5,897 Feet**

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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	7/10	7/05	7/01	6/28	6/25	6/22	6/19	6/15	6/10
32	6/30	6/23	6/18	6/14	6/11	6/07	6/03	5/29	5/22
28	6/13	6/06	6/01	5/27	5/23	5/19	5/14	5/09	5/02
24	5/17	5/12	5/08	5/05	5/03	4/30	4/27	4/24	4/19
20	5/08	5/01	4/26	4/21	4/17	4/13	4/09	4/04	3/28
16	4/20	4/13	4/09	4/04	4/01	3/28	3/24	3/19	3/12
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	8/18	8/24	8/29	9/02	9/06	9/09	9/13	9/18	9/24
32	8/29	9/04	9/08	9/11	9/15	9/18	9/21	9/25	10/01
28	9/17	9/21	9/23	9/26	9/28	9/30	10/03	10/06	10/09
24	9/19	9/25	9/30	10/04	10/08	10/12	10/16	10/20	10/27
20	9/29	10/05	10/09	10/13	10/16	10/19	10/23	10/27	11/02
16	10/14	10/20	10/25	10/28	11/01	11/04	11/08	11/12	11/18
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	96	88	82	77	72	67	62	56	48
32	119	111	105	100	95	91	86	80	71
28	151	143	137	132	127	123	118	112	104
24	182	174	168	162	157	152	147	141	133
20	211	201	193	187	181	175	169	161	151
16	242	232	225	219	213	208	202	195	185

\* 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:

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

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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	1391	1129	1015	686	431	190	53	62	270	604	1040	1370	8241
60	1236	989	860	542	291	101	16	20	165	451	890	1215	6776
57	1143	905	767	458	217	62	7	8	116	363	800	1122	5968
55	1081	849	706	404	174	42	3	4	88	307	740	1060	5458
50	926	709	555	280	90	13	0	1	37	185	592	905	4293
32	386	253	136	31	1	0	0	0	0	5	159	374	1345

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	18	47	144	335	596	847	1129	1097	753	425	109	27	5527
55	0	0	1	18	57	200	419	388	151	14	0	0	1248
57	0	0	0	12	38	160	361	330	118	8	0	0	1027
60	0	0	0	5	19	108	278	249	78	3	0	0	740
65	0	0	0	0	3	47	159	136	33	0	0	0	378
70	0	0	0	0	0	15	76	59	11	0	0	0	161

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	0	16	133	355	603	881	844	517	208	13	0	0	0	16	149	504	1107	1988	2832	3349	3557	3570	3570
45	0	0	1	64	229	454	726	689	375	114	0	0	0	0	1	65	294	748	1474	2163	2538	2652	2652	2652
50	0	0	0	25	122	313	571	534	248	47	0	0	0	0	0	25	147	460	1031	1565	1813	1860	1860	1860
55	0	0	0	9	56	193	417	384	140	15	0	0	0	0	0	9	65	258	675	1059	1199	1214	1214	1214
60	0	0	0	0	18	94	269	239	63	1	0	0	0	0	0	0	18	112	381	620	683	684	684	684
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	18	109	244	394	569	547	349	166	14	0	0	1	19	128	372	766	1335	1882	2231	2397	2411	2411

(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)