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: MCDERMITT, NV **COOP ID: 264935**

Climate Division: NV 1 **NWS Call Sign:** **Elevation: 4,527 Feet** **Lat: 42˚00N** **Lon: 117˚43W**

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	38.8	15.3	27.1	60+	1990	9	37.6	1986	-23	1979	1	17.6	1993	1177	0	.0	.0	3.6	7.0	29.2	3.2
Feb	45.1	20.2	32.7	68+	1986	28	40.5	1995	-28	1985	4	23.8	1985	906	0	.0	.0	9.3	2.4	25.9	1.4
Mar	51.8	25.0	38.4	75+	1986	29	44.0	1986	5	1988	12	33.1	1985	826	0	.0	.0	19.1	.3	25.3	.0
Apr	59.1	28.9	44.0	85+	1987	26	49.2	1990	6	1972	13	36.7	1975	631	0	.0	.0	24.4	@	19.9	.0
May	68.7	36.0	52.4	95+	2001	25	59.2	1992	12	1974	17	46.5	1977	394	3	.0	.4	29.8	.0	9.6	.0
Jun	79.2	42.1	60.7	101	1988	24	66.6	1977	20	2001	4	54.8	1984	174	43	.1	4.3	30.0	.0	2.4	.0
Jul	88.7	47.9	68.3	105+	1971	29	75.2	1985	27+	1986	4	60.1	1993	55	158	1.1	16.4	31.0	.0	.4	.0
Aug	87.6	45.2	66.4	104	1983	7	70.6	1971	23+	1992	26	62.4	1976	55	97	.6	14.5	31.0	.0	1.1	.0
Sep	77.5	36.5	57.0	100	1973	5	62.1	1990	11	2000	24	51.0	1986	255	15	@	3.0	29.7	.0	7.8	.0
Oct	65.1	27.0	46.1	90	1996	10	52.5	1988	-1	1996	21	39.8	1984	588	0	.0	@	27.8	.1	22.6	@
Nov	48.4	21.6	35.0	73	1980	5	41.9	1995	-15	1977	20	27.7	1994	901	0	.0	.0	13.9	1.4	26.0	.6
Dec	39.4	14.9	27.2	62	1999	1	33.8+	1981	-37	1990	22	14.5	1990	1174	0	.0	.0	4.5	5.4	29.4	2.6
Ann	62.5	30.1	46.3	105+	Jul 1971	29	75.2	Jul 1985	-37	Dec 1990	22	14.5	Dec 1990	7136	316	1.8	38.6	254.1	16.6	199.6	7.8

\+ 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: 1950-2001

(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	.81	.74	1.00	1973	16	2.10	1973	.02	1994
Feb	.56	.48	1.90	1976	16	2.02	1986	.00	1988
Mar	.90	.74	1.10	1986	8	1.84	1983	.06	1988
Apr	1.06	.93	1.11	1983	30	3.28	1973	.10	1982
May	1.17	.94	1.87	1974	28	3.10	1998	.25	1972
Jun	1.02	.84	1.70	1971	26	2.73	1972	.00	1974
Jul	.34	.23	.81	1982	1	1.60	1982	.00+	1999
Aug	.36	.13	1.04	1975	20	1.83	1973	.00+	1999
Sep	.58	.35	.82+	1980	11	1.94	1980	.00+	1999
Oct	.70	.58	1.05	1975	7	2.17	2000	.00+	1988
Nov	.81	.57	1.35	1977	21	2.51	1977	.07	2000
Dec	.90	.53	.69	1995	29	3.69	1983	.05	1976
Ann	9.21	8.92	1.90	Feb 1976	16	3.69	Dec 1983	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.1	2.5	.2	@
Feb	4.7	1.6	.1	@
Mar	5.8	2.7	.1	@
Apr	7.0	3.2	.3	.1
May	6.3	3.3	.5	.1
Jun	5.2	2.8	.6	.1
Jul	2.6	1.1	.1	.0
Aug	2.3	1.1	.3	.1
Sep	3.3	1.9	.2	.0
Oct	4.6	2.0	.3	@
Nov	5.9	2.7	.1	@
Dec	5.3	2.9	.3	.0
Ann	58.1	27.8	3.1	.4

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	.07	.12	.23	.34	.47	.61	.77	.98	1.27	1.75	2.23
Feb	.07	.14	.24	.32	.40	.48	.58	.69	.84	1.08	1.31
Mar	.19	.28	.41	.53	.65	.77	.92	1.09	1.32	1.68	2.02
Apr	.17	.26	.41	.56	.71	.87	1.06	1.30	1.61	2.11	2.60
May	.20	.30	.48	.64	.80	.98	1.18	1.43	1.76	2.30	2.81
Jun	.02	.08	.20	.34	.50	.70	.93	1.23	1.65	2.38	3.10
Jul	.00	.00	.00	.06	.12	.20	.30	.42	.59	.89	1.18
Aug	.00	.00	.00	.00	.04	.12	.23	.39	.63	1.07	1.52
Sep	.00	.00	.08	.18	.29	.41	.55	.72	.97	1.36	1.75
Oct	.00	.06	.17	.28	.40	.53	.68	.86	1.12	1.54	1.96
Nov	.08	.14	.25	.36	.48	.62	.78	.99	1.26	1.72	2.18
Dec	.09	.15	.27	.40	.54	.69	.87	1.10	1.42	1.94	2.45
Ann	5.00	5.73	6.71	7.49	8.20	8.90	9.64	10.48	11.52	13.07	14.44

+ 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: 1950-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

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
Jan	4.7	4.8	1	#	5.0	1989	5	10.5	1999	8	1984	25	7	1984
Feb	1.3	.0	#	#	3.0	1999	20	6.0	1999	7+	1996	4	3	1984
Mar	2.8	2.0	#	#	8.0	1995	23	9.5	1995	2+	2000	8	#+	2000
Apr	1.0	.0	#	0	4.0	1998	3	10.0	1998	5	1998	4	1	1998
May	.0	.0	0	0	.8	1971	21	.8	1971	0	0	0	0	0
Jun	.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
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0
Sep	#	.0	#	0	#	1978	18	#	1978	1	1982	29	#	1982
Oct	.4	.0	#	0	2.6	1984	19	5.9	1984	4	1991	28	1	1998
Nov	2.0	.0	#	#	7.0	1977	21	8.0	1977	6	1979	26	1	1988
Dec	4.8	5.0	1	#	6.0	1992	28	12.2	1992	9	1983	25	4	1983
Ann	17.0	11.8	N/A	N/A	8.0	Mar 1995	23	12.2	Dec 1992	9	Dec 1983	25	7	Jan 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	1.4	1.2	.4	.1	.0	-9.9	-9.9	-9.9	-9.9
Feb	1.0	.9	.1	.0	.0	-9.9	-9.9	-9.9	-9.9
Mar	1.1	1.1	.2	.1	.0	.5	.0	.0	.0
Apr	.3	.2	.1	.0	.0	.1	.0	.0	.0
May	@	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.2	.0	.0	.0	.1	.0	.0	.0
Nov	.9	.5	.1	.1	.0	.1	.0	.0	.0
Dec	1.4	1.0	.3	.1	.0	-9.9	-9.9	-9.9	-9.9
Ann	6.3	5.1	1.2	.4	.0	-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	7/27	7/19	7/14	7/09	7/04	6/30	6/25	6/19	6/11
32	7/18	7/08	7/02	6/26	6/20	6/15	6/09	6/02	5/24
28	6/30	6/21	6/14	6/09	6/03	5/29	5/24	5/17	5/08
24	5/30	5/23	5/18	5/13	5/09	5/05	5/01	4/25	4/18
20	5/19	5/10	5/04	4/29	4/24	4/19	4/14	4/08	3/30
16	5/11	4/28	4/19	4/12	4/04	3/28	3/21	3/12	2/27

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	8/03	8/09	8/13	8/17	8/21	8/24	8/28	9/01	9/07
32	8/15	8/22	8/28	9/02	9/06	9/10	9/15	9/21	9/28
28	8/28	9/04	9/09	9/13	9/17	9/21	9/25	9/30	10/07
24	9/07	9/14	9/18	9/22	9/26	9/30	10/04	10/09	10/16
20	9/17	9/24	9/29	10/03	10/08	10/12	10/16	10/21	10/28
16	9/28	10/05	10/10	10/14	10/18	10/22	10/26	10/31	11/07

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	81	69	61	53	47	40	32	24	12
32	116	103	93	85	77	69	61	51	38
28	139	127	119	111	105	98	90	82	70
24	169	159	151	145	139	133	127	120	109
20	196	186	178	172	166	160	153	146	135
16	240	225	214	205	196	187	178	167	153

***** 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	1177	906	826	631	394	174	55	55	255	588	901	1174	7136
60	1022	766	671	482	253	85	17	13	142	434	751	1019	5655
57	929	682	578	396	181	48	8	3	91	344	661	926	4847
55	867	626	516	341	139	30	4	1	64	287	601	864	4340
50	716	492	367	214	62	7	0	0	21	161	453	709	3202
32	254	116	25	7	0	0	0	0	0	2	71	228	703

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	100	134	223	366	632	859	1126	1065	749	437	160	77	5928
55	0	0	0	10	58	200	416	354	123	9	0	0	1170
57	0	0	0	5	37	158	358	294	90	4	0	0	946
60	0	0	0	1	17	105	275	210	52	1	0	0	661
65	0	0	0	0	3	43	158	97	15	0	0	0	316
70	0	0	0	0	0	13	76	30	2	0	0	0	121

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	3	20	73	179	401	635	891	826	531	235	47	7	3	23	96	275	676	1311	2202	3028	3559	3794	3841	3848
45	0	1	22	87	262	486	736	671	387	125	12	1	0	1	23	110	372	858	1594	2265	2652	2777	2789	2790
50	0	0	0	36	148	344	582	516	253	53	0	0	0	0	0	36	184	528	1110	1626	1879	1932	1932	1932
55	0	0	0	7	67	209	429	366	139	15	0	0	0	0	0	7	74	283	712	1078	1217	1232	1232	1232
60	0	0	0	0	24	106	283	224	56	0	0	0	0	0	0	0	24	130	413	637	693	693	693	693
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	31	76	163	301	432	569	548	413	252	58	8	1	32	108	271	572	1004	1573	2121	2534	2786	2844	2852

(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