

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: MC DERMITT 26 N, OR

1971-2000

COOP ID: 355335

Climate Division: OR 9

NWS Call Sign:

Elevation: 4,464 Feet Lat: 42° 25N

Lon: 117° 52W

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	41.1	18.8	30.0	64	1971	19	36.6	1994	-29	1962	22	20.4	1979	1087	0	.0	.0	5.8	5.5	27.6	2.5
Feb	46.9	22.3	34.6	70+	1995	26	41.8	1995	-24	1989	5	23.8	1989	851	0	.0	.0	11.4	2.2	24.3	.9
Mar	54.1	26.0	40.1	79	1966	30	45.3	1986	-3	1976	3	34.8	1976	775	0	.0	.0	21.6	.3	24.3	.1
Apr	61.8	29.8	45.8	87+	1987	27	52.6	1987	8	1972	18	36.7	1975	577	0	.0	.0	26.5	.0	19.3	.0
May	70.8	36.5	53.7	97+	1986	31	60.0	1992	15+	2001	3	48.4	1977	356	5	.0	1.0	30.5	.0	9.5	.0
Jun	81.2	43.2	62.2	105	1973	28	68.8	1986	22	1973	18	57.1	1984	150	66	.3	6.8	30.0	.0	2.2	.0
Jul	91.2	49.0	70.1	111	1969	20	74.4	1985	28	1986	5	60.1	1993	30	187	2.1	20.5	31.0	.0	.4	.0
Aug	89.7	47.4	68.6	105+	1990	7	73.4	1986	20	1972	17	63.5	1993	45	154	1.6	18.2	31.0	.0	.7	.0
Sep	79.9	39.2	59.6	100+	1998	3	64.5	1990	10	1965	17	52.1	1985	201	37	.1	4.8	29.9	.0	6.6	.0
Oct	67.2	31.7	49.5	92	1996	9	57.8	1988	4	1991	30	45.8	1984	482	0	.0	.1	28.9	.0	17.0	.0
Nov	50.2	24.6	37.4	75+	1999	13	45.9	1995	-8	1993	26	30.2	1985	828	0	.0	.0	15.6	1.0	23.7	.5
Dec	41.4	18.1	29.8	65+	1980	26	36.6	1981	-29+	1990	22	22.0	1990	1093	0	.0	.0	6.6	4.8	27.6	2.0
Ann	64.6	32.2	48.5	111	Jul 1969	20	74.4	Jul 1985	-29+	Dec 1990	22	20.4	Jan 1979	6475	449	4.1	51.4	268.8	13.8	183.2	6.0

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1955-2001

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

081-A

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Lon: 117°52W

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	.77	.63	1.70	1972	22	3.53	1972	.00	1991	5.8	2.4	.2	.1	.04	.11	.22	.34	.46	.59	.75	.95	1.21	1.65	2.08
Feb	.63	.54	.78	1962	20	2.09	1986	.00	1977	5.0	2.1	.1	.0	.04	.11	.21	.30	.40	.51	.63	.78	.99	1.32	1.65
Mar	1.02	1.12	1.22	1986	8	2.16	1983	.11	1972	6.6	3.3	.3	@	.27	.36	.51	.64	.77	.91	1.06	1.24	1.47	1.83	2.18
Apr	1.07	.99	1.42	1964	1	2.98	1994	.00	1977	7.4	3.9	.3	.0	.13	.26	.44	.59	.75	.91	1.10	1.32	1.61	2.08	2.53
May	1.39	1.23	1.50	1987	26	3.28	1980	.09	1992	7.0	4.0	.5	.2	.27	.39	.59	.78	.97	1.18	1.41	1.70	2.07	2.67	3.24
Jun	.96	.93	1.25	1957	9	2.54	1997	.00+	1979	5.4	3.1	.5	@	.00	.05	.19	.33	.49	.67	.90	1.18	1.57	2.23	2.89
Jul	.42	.28	1.90	1976	18	1.90	1976	.00+	1989	2.6	1.0	.1	.1	.00	.00	.02	.08	.16	.25	.37	.52	.72	1.08	1.44
Aug	.47	.19	1.05	1979	13	2.68	1976	.00+	1998	2.8	1.2	.3	@	.00	.00	.01	.05	.12	.22	.35	.53	.81	1.30	1.83
Sep	.50	.34	1.22	1961	16	1.60	1980	.00+	1999	3.5	1.9	.2	.0	.00	.00	.07	.15	.24	.34	.46	.61	.83	1.20	1.56
Oct	.72	.56	1.21	2000	10	3.08	2000	.00+	1988	4.7	2.4	.2	@	.00	.07	.19	.30	.42	.55	.71	.89	1.15	1.58	1.99
Nov	.80	.73	2.00	1975	16	2.02	1983	.01	1976	6.8	2.9	.2	@	.09	.15	.26	.38	.50	.63	.79	.98	1.25	1.68	2.11
Dec	.73	.48	1.30	1971	30	3.26	1983	.00	1976	5.7	2.6	.2	@	.02	.06	.16	.26	.38	.51	.68	.88	1.18	1.67	2.16
Ann	9.48	9.52	2.00	Nov 1975	16	3.53	Jan 1972	.00+	Sep 1999	63.3	30.8	3.1	.4	5.74	6.42	7.32	8.02	8.65	9.26	9.91	10.63	11.53	12.84	14.00

+ 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: 1955-2001

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

Complete documentation available from:
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COOP ID: 355335

Climate Division: OR 9

NWS Call Sign:

Elevation: 4,464 Feet

Lat: 42° 25N

Lon: 117° 52W

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	4.2	4.3	#	0	5.0	1983	20	12.0	1973	8	1972	1	2	1977	1.9	1.6	.5	.1	.0	1.6	1.0	.1	.0
Feb	3.3	1.5	#	0	6.0	1972	24	19.0	1979	7	1979	22	1+	1979	1.7	1.6	.5	.2	.0	1.0	.4	.2	.0
Mar	5.2	4.5	#	0	10.0	1974	7	17.0	1974	8	1979	1	2	1976	1.8	1.7	.7	.4	.1	1.3	.9	.4	.0
Apr	1.5	.5	#	0	5.0	1975	26	6.0	1975	1	1979	18	#+	1980	.8	.7	.1	.1	.0	.1	.0	.0	.0
May	.5	.0	0	0	3.0	1975	4	6.0	1975	0	0	0	0	0	.2	.2	.2	.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	#	.0	#	0	#	1979	30	#+	1979	#+	1979	30	#+	1979	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	2.1	.0	#	0	5.5	1977	21	9.0	1971	5	1977	21	#+	1983	.8	.7	.3	.1	.0	.2	.2	@	.0
Dec	2.9	2.0	1	0	4.0	1977	27	7.5	1978	11	1983	26	9	1983	1.4	1.3	.2	.0	.0	.8	.4	.0	.0
Ann	19.7	12.8	N/A	N/A	10.0	Mar 1974	7	19.0	Feb 1979	11	Dec 1983	26	9	Dec 1983	8.6	7.8	2.5	.9	.1	5.0	2.9	.7	.0

+ 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:

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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	7/22	7/16	7/11	7/07	7/04	6/30	6/26	6/21	6/15
32	7/13	7/05	6/29	6/24	6/19	6/14	6/09	6/04	5/26
28	6/20	6/13	6/08	6/03	5/30	5/26	5/21	5/16	5/09
24	6/02	5/25	5/20	5/16	5/12	5/07	5/03	4/28	4/21
20	5/17	5/09	5/04	4/29	4/25	4/20	4/16	4/10	4/03
16	5/11	4/29	4/20	4/13	4/06	3/30	3/23	3/14	3/03
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	8/11	8/17	8/21	8/24	8/27	8/31	9/03	9/07	9/13
32	8/18	8/24	8/29	9/02	9/05	9/09	9/12	9/17	9/23
28	8/31	9/06	9/11	9/15	9/19	9/22	9/26	10/01	10/07
24	9/12	9/19	9/24	9/28	10/02	10/05	10/10	10/14	10/21
20	9/21	9/30	10/06	10/11	10/16	10/20	10/26	11/01	11/09
16	10/11	10/17	10/22	10/26	10/30	11/03	11/07	11/11	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	81	72	65	59	54	49	43	36	27
32	110	98	90	84	77	71	64	56	45
28	135	126	121	116	111	106	101	95	87
24	170	160	154	148	142	137	131	124	115
20	210	198	188	181	173	166	158	149	136
16	248	234	223	214	206	198	189	178	163

* 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	1087	851	775	577	356	150	30	45	201	482	828	1093	6475
60	932	711	620	433	221	73	8	13	106	332	678	938	5065
57	839	627	527	351	155	41	2	4	65	250	588	845	4294
55	777	571	466	299	117	26	1	2	43	199	531	783	3815
50	628	438	320	188	49	7	0	0	12	99	393	629	2763
32	188	83	18	8	0	0	0	0	0	1	63	175	536

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	125	156	266	421	672	907	1181	1132	826	542	225	104	6557
55	0	0	1	23	77	243	468	421	180	28	3	0	1444
57	0	0	0	15	52	198	407	361	141	16	0	0	1190
60	0	0	0	7	26	140	320	277	92	5	0	0	867
65	0	0	0	0	5	66	187	154	37	0	0	0	449
70	0	0	0	0	0	24	91	69	11	0	0	0	195

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	20	41	95	207	442	676	937	895	594	317	80	20	20	61	156	363	805	1481	2418	3313	3907	4224	4304	4324
45	0	11	36	114	296	527	782	740	446	189	32	5	0	11	47	161	457	984	1766	2506	2952	3141	3173	3178
50	0	0	4	50	177	379	627	585	311	95	4	0	0	0	4	54	231	610	1237	1822	2133	2228	2232	2232
55	0	0	0	18	93	246	473	431	191	37	0	0	0	0	0	18	111	357	830	1261	1452	1489	1489	1489
60	0	0	0	1	39	134	326	282	93	9	0	0	0	0	0	1	40	174	500	782	875	884	884	884
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	15	39	99	192	329	455	582	566	441	276	69	11	15	54	153	345	674	1129	1711	2277	2718	2994	3063	3074

(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.

- 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/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