

Climatology of the United States

No. 20

1971-2000

Station: MONTELLO 2 SE, NV

COOP ID: 265352

Climate Division: NV 2

NWS Call Sign:

Elevation: 4,900 Feet Lat: 41° 15N

Lon: 114° 10W

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	37.1	8.9	23.0	63	1990	10	30.2	1994	-32	1963	12	13.8	1993	1303	0	.0	.0	2.2	9.2	30.7	6.5
Feb	42.7	15.0	28.9	68+	1986	27	37.8	1995	-25	1996	2	17.7	1984	1012	0	.0	.0	5.8	4.2	27.7	2.8
Mar	52.2	22.1	37.2	77	1966	31	42.5	1986	-14	1960	1	30.1	1977	864	0	.0	.0	17.9	.4	27.9	@
Apr	61.6	26.1	43.9	87	1962	19	48.9	1992	6	1966	20	36.3	1975	635	0	.0	.0	25.6	.0	22.2	.0
May	71.1	34.2	52.7	98	1961	25	57.9	1992	12	1965	7	48.0	1977	388	5	.0	.3	30.2	.0	9.4	.0
Jun	82.8	41.1	62.0	104+	1974	15	67.3	1977	25	1960	21	56.6	1993	152	60	.6	7.3	30.0	.0	1.3	.0
Jul	92.6	46.7	69.7	106+	1985	4	73.0	1988	32+	1959	9	61.3	1993	28	173	2.8	20.6	31.0	.0	.1	.0
Aug	90.8	43.9	67.4	108	2000	1	70.6	1982	24	1964	30	62.6	1976	39	112	1.1	18.2	31.0	.0	.4	.0
Sep	80.1	34.6	57.4	100	1950	3	62.6	1990	7	1965	20	50.3	1971	246	17	.0	4.1	30.0	.0	7.7	.0
Oct	66.5	24.0	45.3	89+	1963	3	52.0	1988	2	1972	31	38.8	1971	612	0	.0	.0	28.0	.1	23.8	.0
Nov	48.9	15.1	32.0	79	1949	7	39.2	1995	-17	1979	28	25.5	1993	990	0	.0	.0	12.4	1.6	28.5	1.2
Dec	38.7	7.6	23.2	69	1995	2	30.3	1975	-29+	1990	22	14.1	1990	1297	0	.0	.0	2.2	7.6	30.8	5.7
Ann	63.8	26.6	45.2	108	Aug 2000	1	73.0	Jul 1988	-32	Jan 1963	12	13.8	Jan 1993	7566	367	4.5	50.5	246.3	23.1	210.5	16.2

+ 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

039-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: MONTELLO 2 SE, NV

COOP ID: 265352

Climate Division: NV 2

NWS Call Sign:

Elevation: 4,900 Feet Lat: 41°15N

Lon: 114°10W

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	.68	.54	.98	1996	24	2.15	1996	.06	1994	5.9	2.2	.2	.0	.05	.09	.18	.27	.38	.50	.64	.83	1.08	1.51	1.93
Feb	.58	.47	.82	1996	4	1.57	1986	.00+	1991	5.2	2.1	.1	.0	.00	.07	.17	.26	.36	.46	.58	.72	.91	1.23	1.53
Mar	.71	.66	.72	1990	5	2.31	1989	.02	1997	6.0	2.3	.2	.0	.09	.15	.25	.35	.45	.57	.70	.87	1.09	1.45	1.81
Apr	.74	.72	.76	1990	24	2.03	1994	.00	1985	5.3	2.4	.2	.0	.05	.13	.25	.36	.47	.60	.74	.91	1.15	1.53	1.90
May	1.17	.75	1.05	1971	31	4.77	1998	.06	1974	7.6	3.6	.6	@	.08	.15	.30	.46	.64	.85	1.10	1.42	1.86	2.62	3.36
Jun	.81	.77	1.10	1963	6	2.26	1997	.00	1974	5.2	2.5	.2	@	.03	.10	.21	.33	.46	.60	.78	.99	1.29	1.79	2.28
Jul	.78	.64	1.96	1973	14	2.24	1973	.04	2000	4.1	2.0	.3	@	.08	.14	.25	.36	.47	.61	.76	.96	1.22	1.66	2.09
Aug	.59	.39	1.22	1977	18	1.96	1977	.00	1985	4.1	1.9	.2	@	.02	.07	.15	.24	.33	.44	.57	.72	.94	1.31	1.66
Sep	.76	.50	1.14	1978	6	5.08	1982	.00+	1999	3.6	2.0	.4	.1	.00	.00	.09	.19	.32	.48	.67	.92	1.27	1.89	2.51
Oct	.57	.52	.75	1956	9	1.83	1972	.00+	1999	4.1	1.9	.1	.0	.00	.00	.09	.22	.34	.45	.58	.74	.94	1.26	1.60
Nov	.62	.61	1.30	1965	24	1.48	1987	.00	1986	4.9	2.0	.1	.0	.06	.14	.24	.33	.42	.52	.63	.76	.94	1.22	1.50
Dec	.46	.36	1.02	1996	6	2.24	1996	.00+	1989	4.6	1.9	.2	@	.00	.03	.09	.16	.24	.33	.43	.57	.75	1.07	1.38
Ann	8.47	8.35	1.96	Jul 1973	14	5.08	Sep 1982	.00+	Oct 1999	60.6	26.8	2.8	.1	4.69	5.35	6.24	6.93	7.57	8.20	8.87	9.61	10.54	11.92	13.15

+ 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: MONTELLO 2 SE, NV

COOP ID: 265352

Climate Division: NV 2

NWS Call Sign:

Elevation: 4,900 Feet

Lat: 41° 15N

Lon: 114° 10W

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	5.6	4.0	1	0	11.5	1979	11	18.0	1972	20	1996	31	7	1996	1.6	1.4	.6	.1	.0	-9.9	-9.9	-9.9	-9.9
Feb	3.1	2.0	#	0	6.0	1984	10	14.0	1984	6	1996	4	2	1989	.9	.8	.5	.2	.0	.1	.0	.0	.0
Mar	1.3	.0	#	0	6.0	1982	15	10.5	1982	6	1982	15	#+	2000	.4	.4	.1	.1	.0	.0	.0	.0	.0
Apr	#	.0	#	0	#	1988	25	#+	1988	#+	1991	23	#+	1991	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.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	.1	.0	#	0	1.3	1972	29	1.3	1972	#	1971	30	#	1971	.2	.1	.0	.0	.0	.0	.0	.0	.0
Nov	1.5	.0	#	0	6.5	1975	28	8.5	1975	1	1988	27	#+	1999	.4	.4	.1	.1	.0	.1	.0	.0	.0
Dec	3.0	2.0	1	0	6.0	1971	12	12.0	1971	8	1996	9	4	1996	1.2	.9	.2	.1	.0	.9	.6	.1	.0
Ann	14.6	8.0	N/A	N/A	11.5	Jan 1979	11	18.0	Jan 1972	20	Jan 1996	31	7	Jan 1996	4.7	4.0	1.5	.6	.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

Complete documentation available from:

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Elevation: 4,900 Feet

Lat: 41° 15N

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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	7/13	7/06	7/01	6/27	6/23	6/19	6/15	6/10	6/04
32	7/01	6/24	6/18	6/13	6/09	6/05	5/31	5/25	5/18
28	6/11	6/04	5/30	5/26	5/22	5/18	5/14	5/09	5/02
24	5/20	5/15	5/11	5/08	5/05	5/02	4/29	4/25	4/20
20	5/14	5/08	5/04	5/01	4/27	4/24	4/21	4/16	4/11
16	4/30	4/21	4/15	4/09	4/04	3/30	3/25	3/18	3/09
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	8/14	8/19	8/23	8/26	8/29	9/01	9/04	9/08	9/14
32	8/24	8/29	9/02	9/05	9/08	9/11	9/14	9/17	9/23
28	9/02	9/08	9/12	9/16	9/19	9/23	9/27	10/01	10/07
24	9/15	9/20	9/24	9/28	10/01	10/04	10/07	10/11	10/16
20	9/25	10/01	10/06	10/10	10/13	10/17	10/21	10/26	11/01
16	9/29	10/06	10/12	10/16	10/21	10/25	10/30	11/04	11/12
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	93	84	77	71	66	61	55	49	39
32	120	110	102	96	90	84	78	70	60
28	144	136	130	124	119	115	109	103	95
24	172	164	158	153	148	143	138	132	124
20	194	185	179	173	168	163	158	151	142
16	233	221	213	206	199	192	185	176	164

* 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	1303	1012	864	635	388	152	28	39	246	612	990	1297	7566
60	1148	872	709	485	251	73	6	7	136	458	840	1142	6127
57	1055	788	616	399	181	41	2	2	86	368	750	1049	5337
55	993	732	554	343	141	26	0	1	61	310	690	987	4838
50	838	592	406	215	64	7	0	0	19	182	541	832	3696
32	339	176	47	7	0	0	0	0	0	4	121	313	1007

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	60	88	206	362	640	899	1167	1096	761	414	121	40	5854
55	0	0	0	8	68	235	455	384	132	8	0	0	1290
57	0	0	0	4	46	190	394	323	97	4	0	0	1058
60	0	0	0	1	23	132	305	235	57	1	0	0	754
65	0	0	0	0	5	60	173	112	17	0	0	0	367
70	0	0	0	0	0	20	78	35	3	0	0	0	136

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	52	177	415	691	946	887	560	230	26	0	0	6	58	235	650	1341	2287	3174	3734	3964	3990	3990
45	0	0	14	86	274	541	791	732	414	122	4	0	0	0	14	100	374	915	1706	2438	2852	2974	2978	2978
50	0	0	0	37	153	394	636	577	281	48	0	0	0	0	0	37	190	584	1220	1797	2078	2126	2126	2126
55	0	0	0	9	71	259	481	422	158	12	0	0	0	0	0	9	80	339	820	1242	1400	1412	1412	1412
60	0	0	0	0	20	143	333	272	69	1	0	0	0	0	0	0	20	163	496	768	837	838	838	838
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	17	73	181	323	460	579	564	432	257	51	2	0	17	90	271	594	1054	1633	2197	2629	2886	2937	2939

(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