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: MILFORD, UT **COOP ID: 425654**

Climate Division: UT 1 **NWS Call Sign: MLF** **Elevation: 5,010 Feet** **Lat: 38˚24N** **Lon: 113˚01W**

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	40.6	15.5	28.1	68	1990	11	37.8	1998	-34	1937	9	15.1	1973	1144	0	.0	.0	5.7	7.2	29.7	4.5
Feb	47.1	20.2	33.7	75	1986	25	41.1	1995	-29	1989	7	25.2	1989	879	0	.0	.0	11.0	2.6	26.2	1.6
Mar	56.7	26.4	41.6	80+	1986	28	47.3	1997	-14	1966	4	33.4	1976	726	0	.0	.0	21.8	.5	25.5	.2
Apr	65.0	31.6	48.3	87	1959	30	55.4	1992	9	1975	2	40.6	1975	503	1	.0	.0	26.6	@	17.4	.0
May	74.2	38.9	56.6	96	1939	29	61.3	1997	17	1975	6	50.6	1975	280	18	.0	.7	30.6	.0	6.1	.0
Jun	86.2	47.1	66.7	105	1970	26	71.8	1994	24	1976	14	61.4	1998	66	115	.3	10.4	30.0	.0	.7	.0
Jul	92.9	55.4	74.2	107	1998	18	77.0+	1996	30	1940	31	71.3	1987	1	286	1.9	23.2	31.0	.0	.0	.0
Aug	90.7	54.5	72.6	103+	1933	13	76.6	1994	30	1992	27	69.3	1976	4	239	.6	17.6	31.0	.0	@	.0
Sep	81.3	44.9	63.1	99+	1948	1	67.0	1990	23+	1934	28	57.9	1986	112	54	.0	3.4	29.8	.0	2.4	.0
Oct	68.0	33.1	50.6	90+	1963	3	56.3	1988	-2	1971	30	44.9	1984	451	2	.0	.0	28.8	.2	15.7	@
Nov	52.2	23.0	37.6	82	1948	13	45.7	1999	-13	1958	18	30.7	1994	821	0	.0	.0	17.8	1.4	25.9	.4
Dec	42.2	15.0	28.6	68+	1995	1	36.7	1977	-35	1990	23	16.7	1972	1129	0	.0	.0	7.3	6.1	29.6	3.1
Ann	66.4	33.8	50.1	107	Jul 1998	18	77.0+	Jul 1996	-35	Dec 1990	23	15.1	Jan 1973	6116	715	2.8	55.3	271.4	18.0	179.2	9.8

\+ 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: 1928-2001

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

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: MILFORD, UT **COOP ID: 425654**

Climate Division: UT 1 **NWS Call Sign: MLF** **Elevation: 5,010 Feet** **Lat: 38˚24N** **Lon: 113˚01W**

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	.73	.52	.94	1997	3	2.83	1993	.05	1972
Feb	.77	.64	.78	1929	6	1.95	2000	.01	1972
Mar	1.21	1.26	1.14	1933	17	2.85	1992	.00+	1997
Apr	.99	.97	1.00	1986	2	2.28	1973	.07	1992
May	.94	.90	1.35	1981	16	2.38	1995	.01	1974
Jun	.44	.30	1.29	1947	21	1.61	1998	.00+	1996
Jul	.76	.69	1.80	1934	3	1.78	1985	.03	2000
Aug	1.04	.80	1.42	1984	19	3.75	1984	.09	1985
Sep	.92	.63	1.42	1981	5	3.64	1982	.00	1979
Oct	1.12	1.08	1.47	1946	28	3.26	2000	.02	1995
Nov	.77	.73	1.28	1996	22	2.21	1978	.05	1995
Dec	.58	.46	.97	1949	10	2.21	1972	.00	1989
Ann	10.27	10.49	1.80	Jul 1934	3	3.75	Aug 1984	.00+	Mar 1997

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.3	2.6	.1	.0
Feb	6.5	2.4	.1	.0
Mar	9.0	4.1	.4	.0
Apr	7.0	3.4	.1	@
May	6.7	2.6	.4	@
Jun	3.6	1.5	.1	@
Jul	5.4	2.3	.2	.1
Aug	6.7	2.9	.5	.1
Sep	4.5	2.5	.4	.1
Oct	5.6	3.1	.5	.1
Nov	5.3	2.2	.3	@
Dec	5.7	1.9	.1	.0
Ann	73.3	31.5	3.2	.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	.08	.13	.23	.33	.44	.56	.71	.89	1.13	1.53	1.92
Feb	.07	.13	.23	.34	.46	.59	.74	.94	1.20	1.64	2.08
Mar	.00	.33	.58	.76	.93	1.10	1.29	1.50	1.78	2.21	2.61
Apr	.21	.30	.44	.58	.71	.85	1.01	1.21	1.46	1.87	2.25
May	.08	.14	.27	.40	.54	.71	.90	1.14	1.48	2.05	2.60
Jun	.00	.00	.04	.11	.19	.28	.39	.54	.74	1.07	1.41
Jul	.06	.11	.21	.32	.44	.57	.73	.93	1.20	1.66	2.12
Aug	.14	.23	.38	.52	.67	.84	1.03	1.27	1.59	2.11	2.61
Sep	.02	.08	.20	.33	.47	.64	.85	1.12	1.49	2.12	2.75
Oct	.13	.22	.38	.53	.70	.88	1.10	1.36	1.72	2.32	2.89
Nov	.13	.20	.31	.42	.52	.64	.77	.94	1.15	1.50	1.84
Dec	.06	.13	.23	.31	.40	.49	.59	.71	.88	1.14	1.39
Ann	6.66	7.33	8.20	8.87	9.47	10.06	10.67	11.35	12.19	13.41	14.47

\+ 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: 1928-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: MILFORD, UT **COOP ID: 425654**

Climate Division: UT 1 **NWS Call Sign: MLF** **Elevation: 5,010 Feet** **Lat: 38°24N** **Lon: 113°01W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	8.3	9.0	2	1
Feb	6.5	4.9	1	1
Mar	9.8	9.8	#	1
Apr	5.6	4.6	#	0
May	1.7	.0	#	0
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.1	.0	0	0
Oct	2.2	.5	#	0
Nov	4.6	3.8	#	0
Dec	6.6	4.8	1	0
Ann	45.4	37.4	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	7.1	1988	18	20.3	1974	16+	1988	21	13	1973
Feb	11.2	1989	4	24.5	1990	14	1973	1	8	1973
Mar	11.6	1985	27	29.4	1985	17+	1985	30	2	1985
Apr	9.6	1986	2	24.4	1973	9	1985	1	1	1985
May	7.6	1975	20	11.4	1975	7	1975	21	#	1998
Jun	.0	0	0	.0	0	2	1990	1	#	1993
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	1.1	1971	30	1.8	1982	#	1990	28	0	0
Oct	6.4	1971	28	17.4	1971	13	1971	30	1	1971
Nov	8.1	1978	11	13.6	1983	9+	1983	28	2	1983
Dec	8.9	1972	8	30.6	1972	19+	1972	10	11	1972
Ann	11.6	Mar 1985	27	30.6	Dec 1972	19+	Dec 1972	10	13	Jan 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.0	2.8	.7	.3	.0
Feb	4.2	1.8	.7	.3	@
Mar	6.1	3.4	.9	.2	.1
Apr	3.0	1.8	.5	.1	.0
May	1.0	.5	.1	.1	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.2	.1	.0	.0	.0
Oct	1.4	.8	.3	.1	.0
Nov	3.1	1.4	.4	.2	.0
Dec	4.7	2.2	.5	.2	.0
Ann	29.7	14.8	4.1	1.5	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	13.1	7.8	5.2	1.6
Feb	9.8	5.5	3.3	.8
Mar	3.7	1.1	.4	.1
Apr	1.7	.6	.2	.0
May	.4	.2	@	.0
Jun	@	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	.2	.2	@
Nov	2.8	1.2	.6	.0
Dec	9.0	4.4	2.4	.9
Ann	40.7	21.0	12.3	3.4

+ 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

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: MILFORD, UT **COOP ID: 425654**

Climate Division: UT 1 **NWS Call Sign: MLF** **Elevation: 5,010 Feet** **Lat: 38˚24N** **Lon: 113˚01W**

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	6/27	6/21	6/17	6/13	6/10	6/06	6/02	5/29	5/23
32	6/17	6/11	6/06	6/02	5/30	5/26	5/22	5/18	5/12
28	5/29	5/24	5/21	5/18	5/15	5/12	5/10	5/06	5/01
24	5/18	5/12	5/07	5/03	4/29	4/26	4/22	4/17	4/11
20	4/30	4/24	4/20	4/17	4/13	4/10	4/07	4/03	3/28
16	4/22	4/12	4/05	3/31	3/25	3/20	3/14	3/07	2/26

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	9/05	9/09	9/12	9/15	9/17	9/20	9/23	9/26	9/30
32	9/09	9/14	9/18	9/21	9/24	9/27	9/30	10/04	10/09
28	9/20	9/25	9/29	10/02	10/05	10/08	10/11	10/15	10/20
24	10/01	10/06	10/09	10/13	10/16	10/19	10/22	10/25	10/31
20	10/13	10/18	10/22	10/25	10/27	10/30	11/02	11/05	11/10
16	10/21	10/26	10/29	11/01	11/04	11/07	11/10	11/14	11/19

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	120	113	108	103	99	95	91	86	79
32	139	131	126	121	116	112	107	102	94
28	162	155	150	146	142	138	134	129	122
24	193	184	178	173	169	164	159	153	144
20	219	211	206	201	196	192	187	181	174
16	255	244	236	230	223	217	211	203	192

***** 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/normals/usnormals.html

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: MILFORD, UT **COOP ID: 425654**

Climate Division: UT 1 **NWS Call Sign: MLF** **Elevation: 5,010 Feet** **Lat: 38˚24N** **Lon: 113˚01W**

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	1144	879	726	503	280	66	1	4	112	451	821	1129	6116
60	989	739	573	363	164	22	0	0	44	305	671	974	4844
57	900	655	484	285	110	9	0	0	21	228	581	881	4154
55	844	599	427	237	81	5	0	0	11	181	522	819	3726
50	699	468	293	140	31	0	0	0	2	91	381	668	2773
32	275	110	26	3	0	0	0	0	0	1	51	217	683

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	154	155	322	491	761	1040	1307	1258	932	574	220	112	7326
55	10	0	11	35	129	355	594	545	253	42	1	0	1975
57	4	0	6	23	96	299	532	483	203	27	0	0	1673
60	0	0	1	12	57	222	439	391	136	11	0	0	1269
65	0	0	0	1	18	115	286	239	54	2	0	0	715
70	0	0	0	0	3	45	144	109	13	0	0	0	314

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	7	33	109	255	511	790	1053	1002	684	329	71	12	7	40	149	404	915	1705	2758	3760	4444	4773	4844	4856
45	0	5	43	141	357	640	898	847	534	200	25	0	0	5	48	189	546	1186	2084	2931	3465	3665	3690	3690
50	0	0	11	63	223	491	743	692	389	102	2	0	0	0	11	74	297	788	1531	2223	2612	2714	2716	2716
55	0	0	0	19	110	347	588	537	251	35	0	0	0	0	0	19	129	476	1064	1601	1852	1887	1887	1887
60	0	0	0	2	40	214	433	382	132	4	0	0	0	0	0	2	42	256	689	1071	1203	1207	1207	1207
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	16	49	124	223	374	514	645	632	465	287	92	19	16	65	189	412	786	1300	1945	2577	3042	3329	3421	3440

(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.
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