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: NEW HARMONY, UT **COOP ID: 426181**

Climate Division: UT 4 **NWS Call Sign:** **Elevation: 5,265 Feet** **Lat: 37˚29N** **Lon: 113˚19W**

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	43.6	20.1	31.9	67+	1953	10	39.9	1986	-11	1963	13	24.2	1979	1029	0	.0	.0	8.8	2.5	29.4	.7
Feb	48.4	23.5	36.0	76	1986	25	44.3	1995	-20	1989	7	31.0+	1993	813	0	.0	.0	13.2	1.1	24.3	.3
Mar	53.9	28.0	41.0	78+	1966	31	46.8	1972	0+	1966	3	35.2	1973	746	0	.0	.0	22.1	.4	20.8	@
Apr	62.0	33.5	47.8	85	1981	30	55.3	1989	12	1982	2	39.4	1975	522	3	.0	.0	26.2	@	11.7	.0
May	71.9	41.5	56.7	92+	1984	29	63.4	1984	23+	1965	8	50.8	1977	278	21	.0	.4	30.9	.0	2.6	.0
Jun	82.5	50.2	66.4	100+	1961	22	70.4	1981	29	1982	6	60.7	1995	74	114	.0	5.3	30.0	.0	@	.0
Jul	88.2	57.4	72.8	104	1985	5	75.7	1996	40	1982	6	70.0	1993	3	244	.2	14.2	31.0	.0	.0	.0
Aug	86.0	55.9	71.0	101	1981	6	74.3	1986	36	1968	23	67.9	1976	6	189	@	9.0	31.0	.0	.0	.0
Sep	78.8	48.3	63.6	94+	1955	6	67.4	1979	23+	1965	18	57.6	1985	100	56	.0	1.5	30.0	.0	.6	.0
Oct	67.3	37.7	52.5	88+	1958	16	59.3	1988	6	1971	30	47.1	1984	391	4	.0	.0	29.2	.0	6.6	.0
Nov	53.4	27.2	40.3	78	1967	13	46.5	1999	3	1964	17	32.4	1994	740	0	.0	.0	19.3	.5	22.2	.0
Dec	44.8	20.6	32.7	69+	1969	18	40.7	1980	-19	1990	22	23.9	1990	1002	0	.0	.0	11.2	2.7	29.1	.6
Ann	65.1	37.0	51.1	104	Jul 1985	5	75.7	Jul 1996	-20	Feb 1989	7	23.9	Dec 1990	5704	631	.2	30.4	282.9	7.2	147.3	1.6

\+ 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: 1948-2001

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

Issue Date: February 2004

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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	2.02	1.58	2.52	1969	21	8.97	1993	.00+	1976
Feb	2.53	1.81	4.71	1978	10	7.71	1993	.00	1972
Mar	2.60	2.07	2.32	1995	12	7.10	1978	.00+	1972
Apr	1.07	.71	1.53	1965	10	4.84	1988	.00	1989
May	1.03	.83	1.52	1958	11	3.79	1977	.00+	1976
Jun	.52	.40	1.58	1957	10	2.06	1999	.00+	1996
Jul	1.13	.83	2.03	1994	19	5.63	1985	.00	1972
Aug	1.63	1.41	2.61	2000	8	4.01	2000	.28	1976
Sep	1.31	1.04	2.19	1981	6	4.83	1997	.00+	1988
Oct	1.55	1.32	2.14	1960	10	5.09	1972	.00	1995
Nov	1.56	1.17	2.58	1982	30	5.91	1978	.00	1992
Dec	1.27	.64	2.37	1965	30	6.23	1971	.00+	1989
Ann	18.22	17.06	4.71	Feb 1978	10	8.97	Jan 1993	.00+	Jun 1996

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.4	4.1	1.4	.5
Feb	5.9	4.2	1.7	.7
Mar	6.9	5.2	1.8	.6
Apr	4.3	2.8	.6	@
May	4.9	2.7	.3	.1
Jun	2.9	1.4	.2	.1
Jul	4.5	2.6	.7	.1
Aug	6.2	3.9	.8	.2
Sep	4.5	2.7	.6	.4
Oct	4.9	3.4	1.1	.3
Nov	4.2	2.9	1.2	.3
Dec	4.0	2.5	.7	.3
Ann	58.6	38.4	11.1	3.6

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	.00	.00	.44	.79	1.14	1.53	1.98	2.55	3.29	4.54	5.75
Feb	.03	.16	.44	.78	1.18	1.67	2.26	3.04	4.15	6.05	7.97
Mar	.00	.14	.51	.89	1.33	1.83	2.43	3.19	4.25	6.04	7.82
Apr	.04	.13	.28	.44	.60	.80	1.02	1.31	1.70	2.35	2.99
May	.00	.11	.29	.45	.62	.80	1.02	1.28	1.63	2.22	2.78
Jun	.00	.00	.05	.16	.26	.37	.50	.66	.87	1.22	1.58
Jul	.01	.05	.17	.31	.48	.70	.97	1.33	1.86	2.77	3.69
Aug	.32	.47	.71	.93	1.15	1.39	1.66	1.99	2.42	3.12	3.77
Sep	.00	.00	.17	.40	.64	.91	1.23	1.64	2.21	3.13	4.06
Oct	.07	.20	.42	.65	.89	1.17	1.50	1.90	2.46	3.39	4.30
Nov	.04	.14	.34	.56	.81	1.10	1.45	1.89	2.52	3.57	4.62
Dec	.00	.04	.19	.37	.57	.82	1.13	1.53	2.09	3.07	4.05
Ann	10.14	11.56	13.45	14.94	16.30	17.64	19.05	20.65	22.62	25.56	28.16

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	12.1	8.0	3	1
Feb	9.9	6.5	1	#
Mar	5.9	5.5	#	0
Apr	1.5	.0	#	0
May	#	.0	0	0
Jun	#	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.2	.0	#	0
Nov	3.1	.0	#	0
Dec	5.0	2.5	#	#
Ann	37.7	22.5	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	21.0	1974	5	34.0	1974	28	1982	22	14	1982
Feb	13.0	1987	24	32.0	1979	30	1979	2	13	1979
Mar	13.0	1998	29	18.0	1987	12	1998	30	1	1998
Apr	8.0	1999	4	10.0	1976	9	1998	2	1+	1999
May	#	1996	25	#	1996	0	0	0	0	0
Jun	#	1999	5	#	1999	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	1.0	1996	27	3.0	1996	1	1996	31	#+	1998
Nov	12.0	1994	18	14.0	2000	13	2000	11	2+	2000
Dec	15.0	1984	16	32.0	1984	18	1984	19	4	1984
Ann	21.0	Jan 1974	5	34.0	Jan 1974	30	Feb 1979	2	14	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.8	1.7	1.2	.8	.2
Feb	2.7	2.6	1.5	.6	.1
Mar	1.2	1.2	.8	.5	.1
Apr	.6	.5	.3	.2	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.2	.1	.0	.0	.0
Nov	.6	.6	.4	.2	.1
Dec	1.0	.9	.7	.4	.1
Ann	8.1	7.6	4.9	2.7	.6

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	6.4	5.1	3.2	1.5
Feb	3.7	2.2	1.2	.2
Mar	1.6	1.0	.7	.2
Apr	.3	.2	.1	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.0	.0	.0
Nov	.7	.6	.4	.2
Dec	1.3	.8	.6	.3
Ann	14.1	9.9	6.2	2.4

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	6/13	6/06	6/02	5/29	5/25	5/22	5/18	5/13	5/07
32	5/24	5/19	5/16	5/13	5/10	5/08	5/05	5/02	4/27
28	5/16	5/09	5/04	4/29	4/25	4/21	4/16	4/11	4/03
24	4/26	4/18	4/12	4/08	4/03	3/29	3/25	3/19	3/11
20	4/18	4/08	4/01	3/26	3/21	3/15	3/09	3/03	2/21
16	4/09	3/27	3/18	3/10	3/03	2/23	2/16	2/06	1/25

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	9/15	9/21	9/25	9/28	10/02	10/05	10/09	10/13	10/18
32	9/23	9/29	10/03	10/06	10/09	10/12	10/16	10/20	10/25
28	10/05	10/11	10/15	10/18	10/22	10/25	10/29	11/02	11/08
24	10/15	10/21	10/25	10/28	10/31	11/04	11/07	11/11	11/17
20	10/27	11/01	11/04	11/07	11/09	11/12	11/14	11/17	11/22
16	11/06	11/11	11/15	11/18	11/21	11/24	11/27	12/01	12/06

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	156	147	140	134	129	123	118	111	102
32	174	166	160	155	151	146	142	136	128
28	204	195	189	184	179	174	169	163	154
24	241	231	223	217	211	205	198	191	180
20	262	252	245	238	233	227	220	213	203
16	302	289	279	270	263	255	246	236	223

***** 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	1029	813	746	522	278	74	3	6	100	391	740	1002	5704
60	874	673	591	383	164	26	0	0	36	253	590	847	4437
57	781	589	500	305	111	12	0	0	16	183	502	754	3753
55	719	533	441	258	83	7	0	0	8	142	444	692	3327
50	564	395	302	160	33	1	0	0	1	66	309	539	2370
32	121	46	20	6	0	0	0	0	0	0	27	113	333

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	115	157	297	478	766	1029	1264	1206	946	637	276	135	7306
55	0	0	6	39	136	346	551	493	264	66	4	0	1905
57	0	0	3	27	102	291	489	431	212	44	2	0	1601
60	0	0	0	14	62	216	396	339	142	22	0	0	1191
65	0	0	0	3	21	114	244	189	56	4	0	0	631
70	0	0	0	0	4	45	109	70	13	0	0	0	241

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	19	53	134	294	550	820	1039	989	731	422	115	19	19	72	206	500	1050	1870	2909	3898	4629	5051	5166	5185
45	0	16	57	175	399	671	884	834	581	283	50	1	0	16	73	248	647	1318	2202	3036	3617	3900	3950	3951
50	0	1	15	81	260	522	729	679	433	160	15	0	0	1	16	97	357	879	1608	2287	2720	2880	2895	2895
55	0	0	0	29	140	373	574	524	291	72	0	0	0	0	0	29	169	542	1116	1640	1931	2003	2003	2003
60	0	0	0	1	55	235	419	370	159	19	0	0	0	0	0	1	56	291	710	1080	1239	1258	1258	1258
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	26	58	116	217	364	527	674	646	474	291	102	34	26	84	200	417	781	1308	1982	2628	3102	3393	3495	3529

(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:
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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