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: NEPHI, UT **COOP ID: 426135**

Climate Division: UT 4 **NWS Call Sign:** **Elevation: 5,125 Feet** **Lat: 39˚43N** **Lon: 111˚50W**

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	40.2	17.6	28.9	68	1953	13	37.0	2000	-18	1949	29	20.6	1984	1120	0	.0	.0	4.3	6.2	29.4	2.5
Feb	46.0	21.5	33.8	74	1986	26	41.3	1992	-20+	1989	6	24.9	1984	874	0	.0	.0	9.7	2.0	25.4	.7
Mar	55.6	28.6	42.1	80+	1986	27	48.5	1986	0	1971	2	36.0	1976	711	0	.0	.0	21.9	.4	22.4	@
Apr	64.2	34.3	49.3	91	1987	25	56.8	1992	14	1945	3	40.5	1975	480	6	.0	@	26.4	.0	14.0	.0
May	73.6	42.1	57.9	96+	1951	28	62.6	1992	20	1990	9	51.1	1975	246	24	.0	.5	30.5	.0	3.4	.0
Jun	85.2	50.0	67.6	110	1970	26	73.2	1986	28	1976	14	61.8	1998	64	142	.4	10.8	30.0	.0	.2	.0
Jul	92.2	57.0	74.6	106+	1960	27	77.9	1989	38+	1983	11	70.3	1993	2	299	1.9	22.4	31.0	.0	.0	.0
Aug	90.4	56.0	73.2	109	1958	8	76.0	1986	35	1943	31	69.5	1978	3	258	.9	18.3	31.0	.0	.0	.0
Sep	81.1	47.7	64.4	106	1950	4	70.4	1990	23	1965	18	59.7	1971	95	76	.0	4.2	29.9	.0	1.1	.0
Oct	67.9	37.0	52.5	93	1989	13	59.9	1988	12	1972	31	46.5	1984	395	6	.0	@	28.8	.1	10.2	.0
Nov	51.7	27.1	39.4	79	1953	3	48.8	1999	-4	1955	16	30.7	2000	768	0	.0	.0	16.3	1.2	23.3	.1
Dec	40.8	18.4	29.6	70	1995	1	36.5	1980	-21	1990	23	23.3+	1990	1098	0	.0	.0	5.4	5.8	29.3	1.5
Ann	65.7	36.4	51.1	110	Jun 1970	26	77.9	Jul 1989	-21	Dec 1990	23	20.6	Jan 1984	5856	811	3.2	56.2	265.2	15.7	158.7	4.8

\+ 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: 1941-2001

(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	1.36	1.23	1.12	1997	3	3.59	1997	.19	1977
Feb	1.36	1.14	1.11	1986	13	3.07	2000	.23	1972
Mar	1.76	1.67	1.53	1944	21	4.00	1978	.14	1997
Apr	1.57	1.38	1.40	1986	2	3.47	1999	.14	1992
May	1.57	1.31	1.48	1999	3	4.29	1981	.23	1974
Jun	.82	.65	1.82	1943	1	4.04	1998	.00+	1979
Jul	.85	.63	1.85	1943	21	3.72	1985	.00+	2000
Aug	1.00	.92	1.36	1965	18	3.10	1983	.00	1985
Sep	1.16	.99	1.50	1978	18	6.02	1982	.00	1974
Oct	1.55	1.46	1.75	1979	20	4.32	1994	.05	1995
Nov	1.41	1.24	1.24	1996	22	3.60	1978	.13	1999
Dec	1.13	1.07	1.45	1951	30	3.58	1983	.11	1976
Ann	15.54	15.41	1.85	Jul 1943	21	6.02	Sep 1982	.00+	Jul 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.8	4.6	.5	@
Feb	8.5	4.6	.4	.1
Mar	9.5	5.5	.7	.0
Apr	8.7	5.0	.6	.1
May	8.7	4.8	.6	.1
Jun	4.3	2.4	.4	.1
Jul	5.5	2.5	.2	.1
Aug	6.8	3.0	.4	.1
Sep	5.6	2.9	.6	.1
Oct	7.0	4.2	.9	.1
Nov	8.1	4.2	.7	@
Dec	7.2	4.0	.3	.0
Ann	87.7	47.7	6.3	.8

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	.25	.37	.57	.75	.94	1.15	1.38	1.66	2.03	2.63	3.21
Feb	.30	.43	.63	.81	.99	1.18	1.39	1.65	1.99	2.53	3.04
Mar	.32	.48	.74	.98	1.22	1.49	1.79	2.15	2.63	3.41	4.15
Apr	.27	.40	.63	.85	1.07	1.31	1.58	1.91	2.36	3.08	3.76
May	.34	.48	.71	.92	1.13	1.35	1.61	1.91	2.31	2.95	3.55
Jun	.00	.02	.10	.21	.34	.50	.70	.97	1.36	2.03	2.71
Jul	.00	.10	.25	.39	.52	.67	.85	1.06	1.34	1.81	2.26
Aug	.16	.30	.47	.60	.74	.88	1.04	1.22	1.47	1.85	2.21
Sep	.04	.12	.28	.45	.64	.85	1.10	1.42	1.87	2.62	3.36
Oct	.21	.33	.55	.77	1.00	1.25	1.54	1.90	2.38	3.18	3.94
Nov	.29	.41	.62	.81	1.00	1.20	1.43	1.71	2.08	2.66	3.22
Dec	.22	.32	.48	.64	.79	.96	1.15	1.38	1.68	2.17	2.63
Ann	9.37	10.49	11.97	13.11	14.15	15.17	16.23	17.42	18.89	21.06	22.96

\+ 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: 1941-2001
(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	13.1	11.5	3	1
Feb	9.3	7.0	2	1
Mar	7.1	6.5	#	#
Apr	3.8	2.0	#	0
May	1.1	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	1.1	.0	#	0
Nov	7.1	4.2	1	#
Dec	10.9	9.9	2	1
Ann	53.5	41.1	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	13.0	1997	13	38.3	1993	22	1993	11	12+	1993
Feb	9.0	1990	18	31.0	1990	12	1996	1	8	1993
Mar	10.0	1988	10	23.0	1988	12	1988	11	3	1971
Apr	9.0	1991	11	15.0	1991	7	1973	2	1	1973
May	13.1	1975	20	16.1	1975	13	1975	20	1	1975
Jun	1.0	1990	1	1.0	1990	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	5.0	1991	28	7.2	1991	4	1971	30	#+	2000
Nov	8.0	1985	12	26.0	1983	10	1983	29	3	1983
Dec	9.0	1987	30	30.5	1982	13	1992	16	5	1992
Ann	13.1	May 1975	20	38.3	Jan 1993	22	Jan 1993	11	12+	Jan 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.7	4.2	1.9	.6	.1
Feb	4.0	3.5	1.6	.4	.0
Mar	2.9	2.6	.9	.5	@
Apr	1.2	1.0	.4	.2	.0
May	.2	.2	.2	.1	@
Jun	@	@	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.6	.5	.2	@	.0
Nov	2.9	2.7	.9	.4	.0
Dec	3.8	3.5	1.8	.6	.0
Ann	20.3	18.2	7.9	2.8	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	15.9	12.3	7.9	3.3
Feb	10.4	6.7	3.7	.2
Mar	3.2	1.8	.4	.1
Apr	.5	.2	.1	.0
May	.2	.1	@	@
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	@	.0	.0
Nov	3.8	2.3	1.0	.2
Dec	11.0	6.9	3.0	.6
Ann	45.2	30.3	16.1	4.4

+ 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

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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	6/18	6/12	6/08	6/04	6/01	5/28	5/25	5/21	5/15
32	6/02	5/28	5/23	5/20	5/16	5/13	5/10	5/05	4/29
28	5/21	5/14	5/10	5/06	5/02	4/29	4/25	4/20	4/14
24	5/03	4/26	4/21	4/17	4/13	4/09	4/05	4/01	3/25
20	4/23	4/13	4/06	3/31	3/25	3/19	3/13	3/05	2/23
16	4/05	3/27	3/20	3/15	3/10	3/04	2/27	2/20	2/11

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	9/14	9/17	9/20	9/22	9/24	9/26	9/28	9/30	10/04
32	9/17	9/21	9/25	9/27	9/30	10/02	10/05	10/08	10/12
28	9/27	10/03	10/07	10/11	10/14	10/17	10/21	10/25	10/31
24	10/15	10/20	10/23	10/25	10/28	10/30	11/02	11/05	11/09
20	10/25	10/29	11/02	11/04	11/07	11/10	11/13	11/16	11/20
16	10/31	11/05	11/09	11/12	11/15	11/18	11/21	11/25	11/30

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	135	128	123	118	114	110	106	101	94
32	156	149	144	140	135	131	127	122	115
28	191	182	175	169	164	158	153	146	137
24	223	214	207	202	197	191	186	179	171
20	260	249	240	233	227	220	213	204	193
16	281	270	262	256	250	244	237	229	219

***** 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	1120	874	711	480	246	64	2	3	95	395	768	1098	5856
60	965	734	556	344	138	22	0	0	36	259	619	943	4616
57	872	650	466	270	89	10	0	0	17	190	532	850	3946
55	810	594	406	227	64	6	0	0	9	150	475	788	3529
50	657	461	269	137	23	0	0	0	1	74	341	633	2596
32	200	99	15	4	0	0	0	0	0	1	43	160	522

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	103	149	327	520	802	1068	1320	1278	971	634	265	86	7523
55	0	0	6	53	153	383	607	565	290	71	7	0	2135
57	0	0	3	36	116	328	545	503	238	49	4	0	1822
60	0	0	1	20	71	250	452	410	167	25	1	0	1397
65	0	0	0	6	24	142	299	258	76	6	0	0	811
70	0	0	0	0	5	65	157	123	24	0	0	0	374

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	4	41	135	295	550	830	1074	1027	724	386	101	10	4	45	180	475	1025	1855	2929	3956	4680	5066	5167	5177
45	0	11	59	175	400	680	919	872	577	252	38	1	0	11	70	245	645	1325	2244	3116	3693	3945	3983	3984
50	0	1	16	89	264	530	764	717	427	139	13	0	0	1	17	106	370	900	1664	2381	2808	2947	2960	2960
55	0	0	1	37	147	385	609	562	289	60	0	0	0	0	1	38	185	570	1179	1741	2030	2090	2090	2090
60	0	0	0	8	66	250	455	407	166	13	0	0	0	0	0	8	74	324	779	1186	1352	1365	1365	1365
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	5	37	119	224	375	530	668	654	480	292	89	13	5	42	161	385	760	1290	1958	2612	3092	3384	3473	3486

(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