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: LEVAN, UT **COOP ID: 425065**

Climate Division: UT 4 **NWS Call Sign:** **Elevation: 5,290 Feet** **Lat: 39˚33N** **Lon: 111˚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	38.9	15.1	27.0	63	1956	10	35.4	2000	-28+	1937	9	16.4	1989	1179	0	.0	.0	3.5	8.4	29.9	3.6
Feb	45.5	19.9	32.7	71	1986	25	41.1	1995	-28	1933	10	24.1	1989	904	0	.0	.0	8.0	2.7	26.6	.9
Mar	53.9	26.9	40.4	79	1943	28	46.5	1986	-6	1966	4	34.0	1976	763	0	.0	.0	20.4	.4	24.0	.1
Apr	62.3	32.6	47.5	86+	1936	17	54.8	1992	11+	1929	10	40.7	1975	527	1	.0	.0	26.1	.0	15.5	.0
May	72.6	40.3	56.5	95+	1994	30	62.3	1994	21	1997	2	51.1	1995	282	18	.0	.2	30.3	.0	4.4	.0
Jun	84.4	48.8	66.6	105	1954	23	72.1	1977	26	1976	14	59.4	1998	77	124	.2	7.9	30.0	.0	.3	.0
Jul	91.9	55.9	73.9	105+	1989	7	78.0	1989	39	1982	6	69.0	1993	4	280	.8	19.2	31.0	.0	.0	.0
Aug	90.3	54.8	72.6	102+	1954	3	76.7	1994	32	1964	29	69.6	1976	3	236	.4	15.2	31.0	.0	.0	.0
Sep	81.5	46.1	63.8	100+	1990	13	69.3	1990	17	1965	18	59.0	1971	105	69	.1	3.2	29.9	.0	1.4	.0
Oct	67.9	35.3	51.6	90	1992	1	57.8	1988	5	1971	30	46.3	1984	418	3	.0	@	28.5	.2	10.7	.0
Nov	51.9	25.1	38.5	77+	1931	5	45.2	1999	-10	1931	24	30.2	2000	794	0	.0	.0	16.3	1.9	25.2	.2
Dec	40.3	16.2	28.3	70	1995	1	36.9	1977	-22	1932	13	19.1	1990	1138	0	.0	.0	4.0	7.3	29.9	2.3
Ann	65.1	34.8	50.0	105+	Jul 1989	7	78.0	Jul 1989	-28+	Jan 1937	9	16.4	Jan 1989	6194	731	1.5	45.7	259.0	20.9	167.9	7.1

\+ 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

Issue Date: February 2004

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Climate Division: UT 4 **NWS Call Sign:** **Elevation: 5,290 Feet** **Lat: 39°33N** **Lon: 111°52W**

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	1.35	1.27	1.29	1962	21	3.58	1997	.38	1972
Feb	1.37	1.13	1.10	1980	18	3.82	1980	.41	1988
Mar	1.64	1.71	1.10	1966	2	3.09	1983	.10	1972
Apr	1.49	1.24	1.30+	1981	3	3.67	1999	.11	1992
May	1.63	1.50	1.72	1975	20	4.36	1981	.24	1976
Jun	.78	.47	1.35	1943	1	2.90	1984	.00	1979
Jul	.77	.75	1.08	1953	15	1.85	1998	.02	1978
Aug	.82	.62	1.52	1946	22	2.37	1987	.07	1985
Sep	1.21	.95	1.97	1965	17	6.25	1982	.00	1979
Oct	1.62	1.36	1.52	1979	20	3.89	1981	.06	1995
Nov	1.24	1.09	1.41	1964	13	2.70	1978	.29	1999
Dec	1.12	1.05	2.00	1966	6	3.27	1972	.17	1976
Ann	15.04	15.14	2.00	Dec 1966	6	6.25	Sep 1982	.00+	Sep 1979

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.9	4.4	.4	@
Feb	8.2	4.5	.5	@
Mar	9.2	5.5	.5	.1
Apr	7.9	4.7	.5	.1
May	7.9	4.5	.9	.1
Jun	4.4	2.3	.3	.0
Jul	4.9	2.7	.3	.0
Aug	6.0	2.6	.2	@
Sep	5.7	3.3	.5	.1
Oct	6.8	4.2	1.0	@
Nov	7.1	4.0	.5	@
Dec	7.1	3.8	.4	.0
Ann	83.1	46.5	6.0	.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	.31	.44	.64	.81	.99	1.17	1.38	1.63	1.96	2.48	2.97
Feb	.30	.43	.63	.81	.99	1.18	1.40	1.66	2.00	2.54	3.05
Mar	.30	.45	.69	.91	1.14	1.39	1.67	2.00	2.45	3.17	3.86
Apr	.22	.35	.56	.77	.99	1.22	1.49	1.82	2.27	2.99	3.68
May	.31	.46	.69	.91	1.14	1.38	1.65	1.98	2.42	3.12	3.79
Jun	.02	.07	.17	.28	.40	.55	.72	.95	1.26	1.79	2.32
Jul	.08	.13	.24	.35	.46	.60	.75	.94	1.21	1.64	2.07
Aug	.12	.19	.31	.42	.54	.67	.82	1.01	1.25	1.66	2.05
Sep	.05	.16	.34	.51	.70	.92	1.17	1.49	1.92	2.65	3.35
Oct	.26	.40	.63	.85	1.08	1.33	1.62	1.97	2.44	3.21	3.94
Nov	.35	.47	.64	.80	.95	1.11	1.29	1.49	1.76	2.18	2.57
Dec	.30	.41	.57	.71	.85	1.00	1.16	1.35	1.60	1.99	2.35
Ann	8.96	10.06	11.51	12.64	13.66	14.66	15.71	16.89	18.34	20.49	22.38

+ 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:
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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	11.4	9.0	5	2
Feb	8.7	7.5	4	2
Mar	7.1	5.0	1	0
Apr	3.0	.0	#	0
May	1.4	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.2	.0	0	0
Oct	1.5	.0	#	0
Nov	6.8	6.0	1	0
Dec	9.0	8.5	2	1
Ann	49.1	36.0	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	10.0	1997	12	26.0	1988	18	1973	13	16	1973
Feb	9.0	1990	18	25.5	1990	18	1984	17	14	1984
Mar	11.2	1980	6	29.5	1980	12+	1985	3	4	1985
Apr	8.2	1981	3	15.0	1972	5	1986	2	#+	1999
May	16.0	1975	20	22.0	1975	10	1975	20	1	1975
Jun	.0	0	0	.0	0	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	5.5	1978	18	5.5	1978	0	0	0	0	0
Oct	9.0	1971	28	12.0	1991	10+	1991	29	1+	1991
Nov	7.5	1977	19	20.0	1983	14	1983	21	5	1983
Dec	10.2	1975	13	21.6	1983	18	1972	31	8	1975
Ann	16.0	May 1975	20	29.5	Mar 1980	18+	Feb 1984	17	16	Jan 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.6	4.2	1.9	.7	@
Feb	3.7	3.3	1.0	.3	.0
Mar	2.6	2.2	.9	.4	@
Apr	.9	.9	.6	.3	.0
May	.4	.4	.2	@	@
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	@	@	@	.0
Oct	.7	.7	.4	.1	.0
Nov	2.5	2.3	1.1	.4	.0
Dec	3.8	3.6	1.6	.6	.1
Ann	19.3	17.6	7.7	2.8	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	20.4	18.2	14.6	6.4
Feb	15.8	13.4	9.9	4.0
Mar	4.7	2.5	1.4	.3
Apr	.6	.1	.1	.0
May	.1	.1	.1	.1
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.6	.4	.4	.1
Nov	4.3	3.2	2.0	.6
Dec	11.1	9.2	5.9	1.1
Ann	57.6	47.1	34.4	12.6

+ 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	6/22	6/15	6/10	6/06	6/02	5/30	5/25	5/21	5/14
32	6/09	6/03	5/30	5/27	5/23	5/20	5/17	5/13	5/07
28	5/18	5/12	5/08	5/04	5/01	4/27	4/24	4/20	4/14
24	5/07	4/29	4/24	4/19	4/15	4/11	4/06	4/01	3/24
20	4/21	4/13	4/07	4/02	3/29	3/24	3/19	3/13	3/05
16	4/10	4/01	3/25	3/19	3/14	3/09	3/03	2/25	2/16

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	9/06	9/11	9/14	9/18	9/21	9/24	9/27	9/30	10/06
32	9/16	9/20	9/23	9/26	9/28	10/01	10/04	10/07	10/11
28	9/25	10/01	10/05	10/09	10/12	10/15	10/19	10/23	10/28
24	10/15	10/20	10/23	10/26	10/29	10/31	11/03	11/06	11/11
20	10/23	10/28	10/31	11/03	11/06	11/08	11/11	11/14	11/19
16	11/03	11/08	11/11	11/14	11/16	11/19	11/22	11/25	11/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	134	126	120	114	110	105	99	93	85
32	149	141	136	132	127	123	119	113	106
28	188	179	173	168	163	158	153	147	139
24	226	216	208	202	196	190	184	176	166
20	249	240	233	227	221	216	210	203	193
16	279	268	260	253	246	240	233	225	214

***** 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	1179	904	763	527	282	77	4	3	105	418	794	1138	6194
60	1024	764	608	385	164	29	0	0	42	277	644	983	4920
57	931	680	517	305	110	13	0	0	20	204	555	890	4225
55	869	624	458	255	80	8	0	0	11	161	497	828	3791
50	720	490	318	152	30	1	0	0	2	78	357	673	2821
32	261	115	27	4	0	0	0	0	0	0	43	206	656

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	105	135	287	468	759	1037	1300	1256	954	608	239	91	7239
55	0	0	5	29	126	355	587	543	275	56	2	0	1978
57	0	0	2	19	93	300	525	481	224	37	1	0	1682
60	0	0	0	9	55	226	432	388	156	17	0	0	1283
65	0	0	0	1	18	124	280	236	69	3	0	0	731
70	0	0	0	0	3	54	145	105	20	0	0	0	327

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	1	23	109	250	505	784	1039	991	693	364	81	8	1	24	133	383	888	1672	2711	3702	4395	4759	4840	4848
45	0	3	45	143	356	634	884	836	543	234	27	0	0	3	48	191	547	1181	2065	2901	3444	3678	3705	3705
50	0	1	12	64	224	487	729	681	400	125	6	0	0	1	13	77	301	788	1517	2198	2598	2723	2729	2729
55	0	0	0	21	115	343	574	526	260	50	0	0	0	0	0	21	136	479	1053	1579	1839	1889	1889	1889
60	0	0	0	3	44	216	419	371	143	12	0	0	0	0	0	3	47	263	682	1053	1196	1208	1208	1208
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	25	102	197	344	504	650	628	459	275	82	6	0	25	127	324	668	1172	1822	2450	2909	3184	3266	3272

(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