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: LA VERKIN, UT **COOP ID: 424968**

Climate Division: UT 2 **NWS Call Sign:** **Elevation: 3,220 Feet** **Lat: 37˚12N** **Lon: 113˚16W**

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	53.4	27.4	40.4	74	1971	21	46.3	1986	-2	1963	13	32.9	1973	764	0	.0	.0	21.7	.4	23.8	.0
Feb	59.8	32.2	46.0	80+	1986	25	51.4	1995	2	1989	7	39.5	1979	532	0	.0	.0	24.8	.3	14.2	.0
Mar	66.5	37.8	52.2	89	1964	29	57.6	1989	10	1966	3	45.8	1973	405	8	.0	.0	30.1	.0	6.2	.0
Apr	74.8	43.0	58.9	95+	1981	30	65.6	1989	21	1975	3	50.4	1975	229	46	.0	1.6	29.9	.0	1.8	.0
May	84.0	50.5	67.3	103	1996	12	73.5	1997	23	1967	1	61.2	1977	74	145	.5	8.6	31.0	.0	.1	.0
Jun	94.4	58.6	76.5	111	1954	22	80.9	1985	34	1983	2	72.1	1995	4	349	7.1	23.5	30.0	.0	.0	.0
Jul	98.9	65.3	82.1	114	2001	3	85.6	1981	46+	1963	1	79.1	1974	0	530	15.7	29.6	31.0	.0	.0	.0
Aug	96.6	64.3	80.5	111	1981	7	84.0	1996	39	1954	27	76.4	1976	0	478	10.1	28.1	31.0	.0	.0	.0
Sep	89.5	56.4	73.0	107	1957	8	77.4	1979	31	1965	18	67.1	1986	12	251	1.2	16.0	30.0	.0	.0	.0
Oct	77.6	44.8	61.2	97	1980	1	68.0	1988	17+	1971	30	56.1	1984	176	57	.0	2.8	30.8	.0	1.5	.0
Nov	62.7	33.4	48.1	85	1999	6	53.8	1981	12+	1952	27	42.8	2000	510	1	.0	.0	27.5	.0	13.0	.0
Dec	54.0	26.9	40.5	74	1957	12	46.9	1980	1	1990	23	33.9	1990	760	0	.0	.0	23.1	.2	25.0	.0
Ann	76.0	45.1	60.6	114	Jul 2001	3	85.6	Jul 1981	-2	Jan 1963	13	32.9	Jan 1973	3466	1865	34.6	110.2	340.9	.9	85.6	.0

\+ 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: 1950-2001

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

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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	1.56	1.03	1.60	1980	29	6.15	1980	.00	1976
Feb	1.59	1.43	1.62	1980	14	4.63	1993	.00+	1974
Mar	1.78	1.41	1.75	1975	26	5.19	1978	.00+	1997
Apr	.78	.53	.75	1994	28	3.37	1988	.00	1984
May	.55	.28	1.15	1951	15	2.33	1977	.00+	1986
Jun	.28	.08	1.10	1972	22	1.70	1972	.00+	2000
Jul	.71	.66	1.56	1969	24	2.31	1984	.00+	1993
Aug	1.10	.96	1.98	1982	24	3.59	1982	.03	1996
Sep	.88	.66	1.75	1972	19	3.51	1997	.00+	1993
Oct	.94	.88	1.07	1971	24	2.63	1974	.00+	1999
Nov	1.08	.84	2.07	1995	1	3.26	1987	.00	1989
Dec	.77	.42	1.13	1992	28	3.03	1984	.00+	1998
Ann	12.02	11.30	2.07	Nov 1995	1	6.15	Jan 1980	.00+	Jun 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.8	4.0	1.0	.1
Feb	6.1	3.7	1.1	.1
Mar	6.5	4.4	1.1	.2
Apr	3.9	2.4	.4	.0
May	3.8	1.8	.2	.0
Jun	1.6	.9	.1	@
Jul	4.0	1.9	.3	.1
Aug	5.0	2.6	.6	.1
Sep	4.0	1.9	.6	.1
Oct	4.0	2.4	.6	@
Nov	4.0	2.5	.7	.1
Dec	4.0	2.2	.4	@
Ann	52.7	30.7	7.1	.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	.04	.13	.34	.55	.80	1.09	1.44	1.89	2.52	3.58	4.64
Feb	.00	.15	.43	.68	.94	1.23	1.57	1.98	2.54	3.46	4.36
Mar	.00	.07	.29	.54	.84	1.19	1.62	2.16	2.94	4.28	5.61
Apr	.01	.04	.12	.22	.34	.49	.68	.93	1.28	1.90	2.52
May	.00	.00	.06	.14	.24	.35	.49	.67	.93	1.37	1.81
Jun	.00	.00	.00	.00	.00	.09	.19	.32	.51	.82	1.13
Jul	.00	.00	.11	.22	.35	.49	.66	.88	1.18	1.70	2.21
Aug	.13	.21	.36	.52	.68	.86	1.08	1.34	1.70	2.30	2.88
Sep	.00	.00	.06	.16	.29	.47	.70	1.01	1.48	2.30	3.16
Oct	.00	.00	.20	.36	.52	.70	.92	1.19	1.54	2.14	2.73
Nov	.01	.06	.18	.33	.50	.70	.96	1.30	1.77	2.60	3.43
Dec	.00	.00	.13	.25	.38	.54	.72	.95	1.27	1.80	2.33
Ann	6.47	7.43	8.72	9.74	10.68	11.61	12.59	13.70	15.08	17.13	18.96

\+ 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: 1950-2001
(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	1.7	.0	#	0
Feb	.7	.0	0	0
Mar	.2	.0	0	0
Apr	.0	.0	0	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	.0	.0	0	0
Nov	.1	.0	0	0
Dec	.3	.0	0	0
Ann	3.0	.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	12.0	1974	5	15.5	1974	1	1973	9	#	1973
Feb	5.0	1989	4	7.0	1987	0	0	0	0	0
Mar	2.0	1971	1	2.0	1971	0	0	0	0	0
Apr	1.0	1976	16	1.0	1976	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Oct	1.0	1971	29	1.0	1971	0	0	0	0	0
Nov	2.0	1983	25	2.0	1983	0	0	0	0	0
Dec	2.0	1972	8	3.0	1972	0	0	0	0	0
Ann	12.0	Jan 1974	5	15.5	Jan 1974	1	Jan 1973	9	#	Jan 1973

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.8	.7	.2	@	@
Feb	.4	.3	.1	@	.0
Mar	.2	.1	.0	.0	.0
Apr	@	@	.0	.0	.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	@	@	.0	.0	.0
Nov	.1	.1	.0	.0	.0
Dec	.3	.2	.0	.0	.0
Ann	1.8	1.4	.3	@	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.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	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.1	.0	.0	.0

+ 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	5/24	5/16	5/10	5/05	5/01	4/26	4/21	4/15	4/07
32	4/30	4/20	4/14	4/08	4/03	3/28	3/22	3/16	3/06
28	4/16	4/06	3/30	3/23	3/18	3/12	3/05	2/26	2/16
24	3/18	3/09	3/02	2/24	2/19	2/13	2/07	1/31	1/22
20	3/01	2/19	2/12	2/06	2/01	1/26	1/20	1/13	1/03
16	2/13	2/03	1/26	1/19	1/12	1/04	12/25	0/00	0/00

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	10/06	10/11	10/15	10/18	10/21	10/24	10/27	10/31	11/05
32	10/15	10/20	10/24	10/27	10/30	11/01	11/04	11/08	11/13
28	10/26	10/31	11/03	11/06	11/09	11/12	11/15	11/18	11/23
24	11/05	11/10	11/14	11/17	11/20	11/23	11/26	11/30	12/05
20	11/17	11/23	11/27	12/01	12/04	12/08	12/11	12/16	12/22
16	12/02	12/11	12/18	12/25	12/31	1/07	1/18	0/00	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	202	192	185	179	173	167	161	154	144
32	241	230	222	215	209	203	196	189	178
28	271	259	250	243	236	229	221	213	200
24	304	294	286	279	273	267	261	253	242
20	342	328	319	311	304	298	290	282	271
16	>365	>365	>365	>365	>365	342	329	318	305

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	764	532	405	229	74	4	0	0	12	176	510	760	3466
60	609	393	269	137	28	0	0	0	2	89	364	605	2496
57	516	312	199	93	14	0	0	0	0	54	282	512	1982
55	457	261	159	68	8	0	0	0	0	37	232	450	1672
50	314	148	79	27	2	0	0	0	0	11	125	306	1012
32	21	1	0	0	0	0	0	0	0	0	0	15	37

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	280	393	626	808	1094	1335	1553	1501	1229	904	481	277	10481
55	3	9	71	186	388	645	840	788	539	228	23	0	3720
57	0	4	49	150	332	585	778	726	479	184	13	0	3300
60	0	1	26	104	254	495	685	633	391	126	5	0	2720
65	0	0	8	46	145	349	530	478	251	57	1	0	1865
70	0	0	1	17	67	214	375	326	135	19	0	0	1154

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	87	209	390	575	853	1104	1315	1262	1001	666	261	86	87	296	686	1261	2114	3218	4533	5795	6796	7462	7723	7809
45	28	101	249	429	698	954	1160	1107	851	514	144	22	28	129	378	807	1505	2459	3619	4726	5577	6091	6235	6257
50	1	37	130	290	545	804	1005	952	701	365	62	0	1	38	168	458	1003	1807	2812	3764	4465	4830	4892	4892
55	0	5	56	169	394	654	850	797	551	231	19	0	0	5	61	230	624	1278	2128	2925	3476	3707	3726	3726
60	0	0	10	80	254	504	695	642	403	119	0	0	0	0	10	90	344	848	1543	2185	2588	2707	2707	2707
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	86	163	269	384	546	674	804	788	634	441	203	91	86	249	518	902	1448	2122	2926	3714	4348	4789	4992	5083

(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