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: PLEASANT GROVE, UT **COOP ID: 426919**

Climate Division: UT 3 **NWS Call Sign:** **Elevation: 4,760 Feet** **Lat: 40˚22N** **Lon: 111˚43W**

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	37.5	19.3	28.4	62+	1953	11	36.6	2000	-19	1949	26	19.0	1984	1134	0	.0	.0	3.6	7.4	28.5	.9
Feb	44.0	23.4	33.7	70+	1963	5	43.1	1995	-17	1989	7	23.0	1984	876	0	.0	.0	8.9	2.5	23.7	.4
Mar	53.7	30.8	42.3	79	1986	27	47.6	1986	-3	1966	4	36.6	1977	704	0	.0	.0	21.6	.1	18.1	.0
Apr	62.4	36.7	49.6	87+	1949	23	57.0	1992	18	1966	20	43.3	1983	468	4	.0	.0	26.6	.0	8.1	.0
May	72.2	44.1	58.2	94	1997	31	63.6	1992	24+	1965	6	52.6	1983	240	26	.0	.2	30.6	.0	1.3	.0
Jun	82.8	52.1	67.5	101	1970	26	72.0	1994	29	1950	8	62.3	1998	58	131	.0	6.6	30.0	.0	@	.0
Jul	89.8	59.4	74.6	102+	1949	31	77.2	1989	35	1963	15	69.5	1993	2	300	.1	18.1	31.0	.0	.0	.0
Aug	88.2	58.2	73.2	101	1949	4	76.5	1994	35	1964	29	69.9	1975	3	257	.1	13.6	31.0	.0	.0	.0
Sep	78.7	49.3	64.0	100	1950	3	70.0	1990	24	1965	18	58.5	1986	106	75	.0	2.3	29.9	.0	.4	.0
Oct	66.0	38.4	52.2	90+	1993	2	58.3	1988	16+	1961	29	46.0	1984	400	3	.0	.1	28.9	@	5.4	.0
Nov	49.9	28.7	39.3	77	1990	12	47.8	1999	-4	1955	16	32.5	2000	771	0	.0	.0	15.7	1.0	20.3	.0
Dec	39.1	20.9	30.0	66+	1969	21	36.1	1995	-14	1990	23	23.1	1990	1086	0	.0	.0	4.5	6.3	28.3	.6
Ann	63.7	38.4	51.1	102+	Jul 1949	31	77.2	Jul 1989	-19	Jan 1949	26	19.0	Jan 1984	5848	796	.2	40.9	262.3	17.3	134.1	1.9

\+ 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

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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	1.84	1.66	1.21	1953	14	4.31	1997	.29	1972
Feb	1.76	1.58	1.32	1980	18	3.88	1980	.18	1972
Mar	1.87	1.74	1.40	2000	6	5.18	1978	.18	1997
Apr	1.65	1.54	1.40	1957	23	5.18	1999	.19	1977
May	1.85	1.60	1.80	1985	10	5.66	1995	.03	1972
Jun	.90	.71	1.57	1998	13	4.39	1998	.00+	1994
Jul	.86	.75	1.30	1982	28	2.15	1989	.00	1971
Aug	.88	.80	1.45	1959	19	2.73	1983	.00	1974
Sep	1.32	1.19	1.44	1978	18	5.98	1982	.00	1979
Oct	1.78	1.65	1.65	1979	20	4.16	1981	.08	1999
Nov	1.51	1.68	1.28	1996	22	3.47	1978	.10	1976
Dec	1.44	1.17	.93	1994	4	5.91	1983	.13	1976
Ann	17.66	18.09	1.80	May 1985	10	5.98	Sep 1982	.00+	Jun 1994

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	5.6	.8	.0
Feb	8.9	5.0	.7	.1
Mar	9.7	5.5	.8	.1
Apr	8.8	4.7	.9	.1
May	8.9	4.9	.9	.3
Jun	4.3	2.5	.4	.1
Jul	4.7	2.4	.3	.2
Aug	5.6	2.8	.4	.0
Sep	5.8	3.3	.8	.1
Oct	6.9	4.2	1.2	.2
Nov	8.0	4.2	.7	@
Dec	8.4	4.6	.6	.0
Ann	90.3	49.7	8.5	1.2

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	.50	.68	.94	1.17	1.40	1.64	1.90	2.22	2.62	3.26	3.86
Feb	.40	.56	.82	1.05	1.28	1.53	1.81	2.14	2.57	3.26	3.92
Mar	.35	.52	.79	1.04	1.30	1.58	1.89	2.27	2.78	3.59	4.36
Apr	.29	.44	.68	.90	1.13	1.38	1.67	2.01	2.47	3.21	3.92
May	.23	.37	.63	.89	1.17	1.47	1.83	2.26	2.86	3.84	4.79
Jun	.00	.03	.15	.28	.43	.60	.82	1.09	1.49	2.16	2.83
Jul	.03	.10	.22	.35	.48	.64	.82	1.06	1.38	1.91	2.43
Aug	.08	.19	.33	.46	.59	.73	.90	1.09	1.35	1.77	2.17
Sep	.05	.16	.34	.54	.75	.99	1.27	1.62	2.11	2.93	3.73
Oct	.23	.37	.62	.87	1.13	1.42	1.75	2.17	2.73	3.66	4.55
Nov	.27	.41	.63	.83	1.04	1.27	1.53	1.84	2.26	2.93	3.57
Dec	.21	.33	.54	.74	.95	1.18	1.44	1.76	2.19	2.89	3.56
Ann	10.98	12.21	13.82	15.06	16.18	17.28	18.43	19.71	21.28	23.59	25.62

\+ 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	12.9	10.6	2	2
Feb	7.7	5.8	1	#
Mar	3.8	2.2	#	#
Apr	3.3	1.0	#	0
May	.3	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	#	0
Sep	.1	.0	#	0
Oct	1.1	.0	#	0
Nov	6.4	4.5	#	#
Dec	9.4	8.0	1	1
Ann	45.0	32.1	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	8.0	1973	19	29.8	1996	16	1996	31	9	1984
Feb	8.0	1989	3	26.5	1979	16	1996	1	8	1989
Mar	7.0	1977	2	19.3	1977	7	1977	2	1	1993
Apr	14.0	1999	1	26.5	1974	8	1999	1	#+	1999
May	3.5	1975	20	4.5	1975	1	1983	11	#+	1999
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	#	1994	29	#	1994
Sep	1.5	1978	18	1.5	1978	#+	1998	1	#+	1998
Oct	5.0	1971	28	18.0	1971	7	1971	31	1	1971
Nov	8.0	1978	13	20.0	1983	8	1981	30	2	1994
Dec	11.0	1990	20	30.3	1983	11	1983	24	5	1988
Ann	14.0	Apr 1999	1	30.3	Dec 1983	16+	Feb 1996	1	9	Jan 1984

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	5.5	4.2	1.6	.7	.0
Feb	3.8	2.7	1.0	.2	.0
Mar	2.2	1.3	.4	.2	.0
Apr	1.2	.9	.3	.2	@
May	.2	.1	.1	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	@	@	.0	.0	.0
Oct	.4	.4	.1	.1	.0
Nov	2.5	2.1	.9	.4	.0
Dec	4.6	2.9	1.2	.4	.1
Ann	20.4	14.6	5.6	2.2	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	15.0	9.1	5.2	.9
Feb	6.8	4.3	2.8	.7
Mar	1.2	.5	.2	.0
Apr	.3	.1	.1	.0
May	.1	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.2	.1	.1	.0
Nov	3.6	1.5	.6	.0
Dec	9.1	5.3	2.6	@
Ann	36.3	20.9	11.6	1.6

+ 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	6/10	6/04	5/30	5/26	5/22	5/18	5/14	5/10	5/03
32	5/25	5/18	5/12	5/08	5/03	4/29	4/24	4/19	4/11
28	5/08	4/30	4/24	4/19	4/14	4/10	4/05	3/30	3/22
24	4/17	4/09	4/03	3/28	3/24	3/19	3/14	3/08	2/27
20	3/31	3/23	3/17	3/12	3/07	3/03	2/26	2/20	2/12
16	3/19	3/11	3/04	2/27	2/22	2/17	2/11	2/05	1/27

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	9/18	9/22	9/25	9/28	10/01	10/03	10/06	10/09	10/13
32	9/27	10/04	10/09	10/13	10/17	10/20	10/24	10/29	11/05
28	10/15	10/20	10/23	10/26	10/29	10/31	11/03	11/07	11/11
24	10/26	10/31	11/03	11/06	11/09	11/12	11/15	11/19	11/24
20	11/03	11/08	11/12	11/15	11/18	11/21	11/24	11/27	12/03
16	11/11	11/17	11/22	11/25	11/29	12/02	12/06	12/11	12/17

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	153	145	140	135	131	126	121	116	108
32	199	188	179	172	166	159	152	143	132
28	227	217	209	203	197	191	184	177	166
24	259	249	242	236	230	224	218	211	201
20	286	275	267	261	254	248	241	234	223
16	313	301	293	286	279	273	265	257	246

***** 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	1134	876	704	468	240	58	2	3	106	400	771	1086	5848
60	979	736	550	330	134	18	0	0	43	260	621	931	4602
57	886	652	459	255	87	7	0	0	21	188	533	838	3926
55	824	596	402	211	62	4	0	0	12	146	475	776	3508
50	675	466	265	121	22	0	0	0	2	67	338	621	2577
32	222	111	16	1	0	0	0	0	0	0	37	155	542

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	111	160	334	528	809	1064	1321	1276	960	626	256	93	7538
55	0	0	8	48	158	378	608	563	282	59	4	0	2108
57	0	0	3	32	121	321	546	501	231	39	2	0	1796
60	0	0	0	17	76	242	453	408	163	18	0	0	1377
65	0	0	0	4	26	131	300	257	75	3	0	0	796
70	0	0	0	0	6	55	158	122	25	0	0	0	366

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	10	43	149	316	578	836	1089	1043	734	406	108	19	10	53	202	518	1096	1932	3021	4064	4798	5204	5312	5331
45	0	11	66	194	427	686	934	888	584	269	50	4	0	11	77	271	698	1384	2318	3206	3790	4059	4109	4113
50	0	0	22	98	286	536	779	733	439	153	14	0	0	0	22	120	406	942	1721	2454	2893	3046	3060	3060
55	0	0	0	41	166	389	624	578	299	65	0	0	0	0	0	41	207	596	1220	1798	2097	2162	2162	2162
60	0	0	0	16	76	252	469	423	173	16	0	0	0	0	0	16	92	344	813	1236	1409	1425	1425	1425
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	2	29	106	208	368	535	704	682	474	266	73	10	2	31	137	345	713	1248	1952	2634	3108	3374	3447	3457

(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