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: LODGEPOLE, CA **COOP ID: 045026**

Climate Division: CA 5 **NWS Call Sign:** **Elevation: 6,735 Feet** **Lat: 36˚36N** **Lon: 118˚44W**

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	39.1	15.3	27.2	65	1971	18	34.1	1986	-10+	1979	30	21.8	1973	1172	0	.0	.0	1.8	6.6	30.9	1.4
Feb	42.1	16.7	29.4	62	1995	20	37.0	1995	-12	1989	6	24.0	1990	997	0	.0	.0	5.9	4.3	28.1	.8
Mar	44.4	20.6	32.5	65+	1997	21	38.7	1997	-2	1976	4	25.2	1973	993	0	.0	.0	8.9	2.9	30.7	.1
Apr	49.9	25.0	37.5	72+	2000	27	44.0	1989	-1	1975	7	27.8	1975	828	0	.0	.0	15.5	1.4	27.4	.1
May	57.9	31.7	44.8	85	1984	29	51.8	1992	9	1975	5	36.4	1998	626	0	.0	.0	23.9	@	17.6	.0
Jun	68.2	38.6	53.4	86	1987	27	58.2	1981	23+	1988	8	47.0	1998	351	3	.0	.0	28.7	.0	4.3	.0
Jul	75.6	43.9	59.8	91+	1998	18	62.8+	1996	28	1987	22	55.5	1987	176	14	.0	.1	31.0	.0	.7	.0
Aug	75.0	43.0	59.0	89+	1997	7	62.2	1971	28+	1989	26	52.9	1976	197	12	.0	.1	31.0	.0	1.1	.0
Sep	68.3	37.7	53.0	86	1976	1	57.3	1974	19	1971	28	46.0	1986	362	2	.0	.0	29.0	.0	5.7	.0
Oct	58.2	29.9	44.1	81+	1980	3	49.7	1988	1	1971	30	38.6	1984	650	0	.0	.0	25.0	.2	21.3	.0
Nov	45.6	21.8	33.7	67	1999	2	41.6	1995	-3	1994	19	26.4	1994	939	0	.0	.0	10.4	2.4	29.4	.1
Dec	38.7	15.9	27.3	57	1995	7	33.7	1977	-16	1972	9	19.0	1971	1169	0	.0	.0	1.4	6.9	30.9	1.3
Ann	55.3	28.3	41.8	91+	Jul 1998	18	62.8+	Jul 1996	-16	Dec 1972	9	19.0	Dec 1971	8460	31	.0	.2	212.5	24.7	228.1	3.8

\+ 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: 1968-2001

(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	8.60	7.53	9.33	1969	25	29.11	1980	.03	1984
Feb	8.71	6.29	9.95	1969	25	31.64	1986	.49	1988
Mar	7.66	6.29	5.94	1991	5	26.37	1991	.00	1972
Apr	3.06	2.49	6.83	1982	11	14.91	1982	.06	1992
May	1.34	.95	2.00	1998	13	4.84	1998	.00	1984
Jun	.66	.32	1.85	1998	11	4.95	1998	.00+	1994
Jul	.47	.25	.98	1992	13	3.21	1992	.00+	2000
Aug	.34	.15	1.03	1988	26	2.15	1983	.00+	1997
Sep	1.51	.70	5.06	1976	11	7.90	1976	.00+	1993
Oct	2.02	1.29	3.98	1992	30	6.54	2000	.00+	1995
Nov	4.38	2.95	4.57	1982	30	14.47	1983	.00	1992
Dec	5.99	5.17	5.80	1982	23	18.34	1996	.00	1989
Ann	44.74	40.61	9.95	Feb 1969	25	31.64	Feb 1986	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.3	7.6	4.5	3.1
Feb	9.2	7.6	4.6	2.9
Mar	10.0	8.1	4.5	2.8
Apr	8.0	5.5	1.6	.8
May	5.7	3.0	.8	.2
Jun	2.4	1.3	.4	.2
Jul	2.2	1.4	.2	.0
Aug	2.3	1.0	.1	@
Sep	3.5	2.2	.8	.4
Oct	4.1	2.8	1.0	.6
Nov	6.6	5.2	2.4	1.3
Dec	7.3	6.0	3.0	2.0
Ann	70.6	51.7	23.9	14.3

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	.36	.78	1.74	2.86	4.18	5.77	7.74	10.29	13.93	20.20	26.51
Feb	.63	1.19	2.31	3.50	4.84	6.38	8.23	10.58	13.83	19.32	24.74
Mar	.42	1.13	2.30	3.43	4.63	5.96	7.52	9.44	12.06	16.38	20.59
Apr	.13	.28	.62	1.03	1.50	2.06	2.76	3.67	4.95	7.17	9.41
May	.04	.13	.31	.51	.72	.96	1.26	1.63	2.15	3.03	3.90
Jun	.00	.00	.00	.02	.08	.20	.39	.66	1.10	1.93	2.82
Jul	.00	.00	.00	.03	.09	.19	.33	.52	.80	1.31	1.84
Aug	.00	.00	.02	.06	.11	.18	.27	.40	.58	.90	1.23
Sep	.00	.00	.05	.17	.36	.65	1.05	1.63	2.52	4.17	5.93
Oct	.00	.00	.34	.66	1.01	1.41	1.90	2.51	3.34	4.75	6.14
Nov	.07	.29	.80	1.40	2.09	2.92	3.94	5.27	7.15	10.38	13.63
Dec	.22	.69	1.54	2.41	3.36	4.44	5.73	7.35	9.58	13.32	16.99
Ann	19.60	23.61	29.20	33.75	38.01	42.30	46.91	52.20	58.87	69.00	78.16

\+ 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: 1968-2001
(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	52.1	51.5	37	34
Feb	50.0	51.6	55	54
Mar	44.9	38.0	59	58
Apr	19.9	16.0	36	28
May	5.7	3.0	10	#
Jun	.6	.0	1	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.3	.0	#	0
Oct	3.5	.0	#	#
Nov	18.7	9.3	4	3
Dec	34.2	32.0	17	16
Ann	229.9	201.4	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	33.0	1974	7	120.6	1995	104	1983	31	69	1993
Feb	33.0	1978	13	126.5	1998	132	1978	14	106	1973
Mar	31.0	1995	23	138.0	1982	156	1983	26	129	1983
Apr	30.0	1982	1	65.0	1998	122	1983	1	113	1983
May	16.0	1983	1	24.0	1977	120	1983	1	78	1983
Jun	9.0	1993	5	13.0	1993	26	1998	1	9	1983
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	4.0	1986	25	4.0	1986	7	1985	11	#+	1986
Oct	10.0	1996	30	19.0	2000	13	1996	31	2	1981
Nov	27.0	1975	28	70.5	1972	43	1972	17	24	1972
Dec	27.0	1978	19	106.0	1971	66	1971	29	43	1972
Ann	33.0+	Feb 1978	13	138.0	Mar 1982	156	Mar 1983	26	129	Mar 1983

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.6	7.0	4.9	3.7	2.2
Feb	8.0	7.0	5.0	4.0	1.9
Mar	7.5	6.9	4.8	3.4	1.8
Apr	5.3	4.9	2.5	1.2	.5
May	2.1	1.8	.7	.4	.1
Jun	.2	.2	.1	@	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	@	.0	.0
Oct	1.2	1.0	.4	.3	@
Nov	4.5	4.0	2.1	1.6	.4
Dec	5.8	5.1	3.4	2.4	1.3
Ann	42.3	38.0	23.9	17.0	8.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	28.1	27.0	25.7	23.5
Feb	26.6	26.6	26.2	23.9
Mar	-9.9	-9.9	-9.9	-9.9
Apr	16.9	16.5	15.9	13.9
May	4.9	3.9	3.7	3.2
Jun	.8	.7	.4	.1
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.2	@	.0	.0
Oct	1.5	.7	.3	.1
Nov	13.9	11.0	6.8	2.4
Dec	23.8	21.7	18.3	16.5
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	7/27	7/21	7/17	7/14	7/10	7/07	7/03	6/29	6/23
32	7/16	7/09	7/04	6/29	6/25	6/21	6/17	6/12	6/05
28	6/23	6/16	6/11	6/06	6/02	5/29	5/24	5/19	5/11
24	5/30	5/23	5/19	5/15	5/11	5/07	5/03	4/28	4/22
20	5/21	5/13	5/07	5/02	4/27	4/23	4/18	4/12	4/04
16	5/12	5/04	4/27	4/22	4/17	4/12	4/07	3/31	3/23

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	8/03	8/10	8/14	8/19	8/22	8/26	8/30	9/04	9/11
32	8/12	8/21	8/27	9/01	9/06	9/11	9/16	9/22	10/01
28	9/02	9/11	9/17	9/22	9/27	10/02	10/07	10/13	10/21
24	9/23	10/01	10/06	10/11	10/15	10/20	10/24	10/30	11/06
20	10/10	10/17	10/22	10/27	10/31	11/05	11/09	11/15	11/22
16	10/22	10/29	11/03	11/07	11/11	11/15	11/20	11/25	12/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	73	62	55	48	42	36	30	22	12
32	112	98	88	80	72	64	56	46	32
28	143	134	127	121	116	111	105	99	90
24	189	178	170	163	157	150	144	136	124
20	216	206	199	192	186	181	174	167	157
16	241	230	221	214	208	201	194	185	174

***** 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	1172	997	993	828	626	351	176	197	362	650	939	1169	8460
60	1017	857	852	678	475	216	74	88	225	496	789	1014	6781
57	924	773	759	588	390	149	33	44	156	408	699	921	5844
55	862	717	697	531	334	113	17	24	117	351	639	859	5261
50	707	577	542	391	214	46	2	3	47	223	490	704	3946
32	181	132	101	53	11	0	0	0	0	9	85	213	785

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	32	59	118	216	408	642	861	838	630	382	136	67	4389
55	0	0	0	3	19	64	165	149	57	11	0	0	468
57	0	0	0	1	12	41	120	107	36	6	0	0	323
60	0	0	0	0	4	18	67	58	15	2	0	0	164
65	0	0	0	0	0	3	14	12	2	0	0	0	31
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	0	0	8	52	189	403	612	594	403	174	22	0	0	0	8	60	249	652	1264	1858	2261	2435	2457	2457
45	0	0	0	14	96	267	457	439	266	80	0	0	0	0	0	14	110	377	834	1273	1539	1619	1619	1619
50	0	0	0	0	35	145	304	290	148	26	0	0	0	0	0	0	35	180	484	774	922	948	948	948
55	0	0	0	0	4	60	161	156	63	4	0	0	0	0	0	0	4	64	225	381	444	448	448	448
60	0	0	0	0	0	10	61	56	8	0	0	0	0	0	0	0	0	10	71	127	135	135	135	135
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	14	22	61	146	276	403	395	283	152	28	0	0	14	36	97	243	519	922	1317	1600	1752	1780	1780

(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