

Climatography of the United States

No. 20

1971-2000

Station: LOS GATOS, CA

COOP ID: 045123

Climate Division: CA 4

NWS Call Sign:

Elevation: 365 Feet Lat: 37° 14N

Lon: 121° 58W

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	58.5	38.8	48.7	79	1962	8	52.6	1986	18	1949	11	45.2	1972	506	0	.0	.0	29.9	.0	6.9	.0
Feb	62.4	41.1	51.8	80+	1992	27	54.6	1991	21	1962	27	47.3	1989	370	0	.0	.0	27.6	.0	2.8	.0
Mar	65.5	42.9	54.2	88	1960	19	58.6	1978	27	1953	2	50.1	1991	337	1	.0	.0	31.0	.0	.7	.0
Apr	70.7	44.4	57.6	96	1981	29	61.5	1989	30+	1967	20	52.9	1975	231	8	.0	.5	30.0	.0	.1	.0
May	75.9	48.2	62.1	101+	2001	31	66.7	1997	34	1952	4	56.8	1998	134	42	.1	2.0	31.0	.0	.0	.0
Jun	81.8	52.0	66.9	114	1961	14	71.6	1981	37+	1976	14	63.7	1991	36	93	.8	5.7	30.0	.0	.0	.0
Jul	85.4	55.1	70.3	113	1972	14	74.7	1984	37	1977	26	66.1	1987	8	170	1.2	8.3	31.0	.0	.0	.0
Aug	84.9	54.8	69.9	107	1959	11	72.0	1998	39	1978	27	68.2	1989	1	150	.6	7.2	31.0	.0	.0	.0
Sep	82.5	53.3	67.9	109	1955	2	73.5	1984	38+	1978	18	62.8	1986	29	117	.5	5.5	30.0	.0	.0	.0
Oct	75.6	48.6	62.1	103+	1980	2	65.1	1991	31	1971	29	58.4	1971	122	32	.1	1.4	31.0	.0	.1	.0
Nov	64.7	42.4	53.6	87	1955	10	58.3	1995	28	1961	16	47.8	1994	345	0	.0	.0	30.0	.0	1.3	.0
Dec	58.2	38.1	48.2	83	1958	2	52.8	1977	16	1990	22	42.3	1990	522	0	.0	.0	29.6	.0	7.2	.0
Ann	72.2	46.6	59.4	114	Jun 1961	14	74.7	Jul 1984	16	Dec 1990	22	42.3	Dec 1990	2641	613	3.3	30.6	362.1	.0	19.1	.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

Issue Date: February 2004

(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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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: LOS GATOS, CA

COOP ID: 045123

Climate Division: CA 4

NWS Call Sign:

Elevation: 365 Feet Lat: 37°14N

Lon: 121°58W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	5.11	3.54	5.56	1968	30	15.60	1995	.23	1984	10.0	6.3	3.0	1.6	.30	.60	1.22	1.92	2.70	3.63	4.75	6.18	8.19	11.60	15.00
Feb	4.77	2.14	3.90	1980	19	16.89	1998	.20	1997	9.4	6.6	3.2	1.7	.20	.43	.96	1.58	2.31	3.19	4.28	5.70	7.72	11.20	14.71
Mar	3.93	2.98	3.45	1995	10	12.52	1995	.03	1988	9.9	6.9	2.8	.9	.17	.36	.80	1.32	1.92	2.65	3.54	4.71	6.36	9.20	12.06
Apr	1.19	1.02	3.13	1958	1	6.45	1983	.00	1973	5.4	2.7	.7	.2	.01	.07	.20	.35	.54	.77	1.05	1.42	1.95	2.87	3.79
May	.46	.12	1.72	1996	16	2.66	1998	.00+	1999	2.3	1.2	.2	.1	.00	.00	.00	.00	.03	.13	.27	.48	.79	1.37	1.98
Jun	.10	.02	.74	1995	16	.77	1995	.00+	1996	.8	.3	.1	.0	.00	.00	.00	.00	.00	.01	.05	.10	.18	.33	.48
Jul	.04	.00	.78	1980	2	.83	1980	.00+	2000	.3	.1	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.24
Aug	.08	.00	.67+	1997	20	.72	1975	.00+	2000	.5	.2	.1	.0	.00	.00	.00	.00	.00	.00	.00	.00	.04	.25	.53
Sep	.24	.04	3.61	1959	18	1.18	1982	.00+	2000	1.1	.6	.1	.0	.00	.00	.00	.00	.00	.04	.12	.25	.43	.76	1.10
Oct	1.02	.96	8.34	1962	13	3.20	1972	.00+	1995	3.3	2.0	.9	.2	.00	.03	.15	.29	.46	.66	.91	1.23	1.69	2.48	3.28
Nov	2.47	1.54	4.09	1950	18	7.52	1973	.01	1992	7.2	4.5	1.5	.6	.05	.13	.35	.64	1.00	1.47	2.07	2.88	4.06	6.15	8.30
Dec	3.23	2.50	8.48	1955	23	7.32	1971	.00	1989	8.4	5.1	2.0	1.1	.18	.49	.99	1.46	1.97	2.53	3.18	3.99	5.09	6.89	8.65
Ann	22.64	20.25	8.48	Dec 1955	23	16.89	Feb 1998	.00+	Sep 2000	58.6	36.5	14.6	6.4	8.83	10.93	13.92	16.40	18.75	21.14	23.72	26.71	30.51	36.34	41.66

+ 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

Complete documentation available from:
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Station: LOS GATOS, CA

COOP ID: 045123

Climate Division: CA 4

NWS Call Sign:

Elevation: 365 Feet

Lat: 37° 14N

Lon: 121° 58W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										Snow Fall >= Thresholds					Snow Depth >= Thresholds			
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	0	0	2.0	1976	5	2.0	1976	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1972	8	#	1972	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	2.0	Feb 1976	5	2.0	Feb 1976	0	0	0	0	0	@	@	.0	.0	.0	.0	.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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Lat: 37° 14N

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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	4/30	4/20	4/12	4/06	3/31	3/25	3/18	3/11	3/01
32	3/24	3/12	3/03	2/24	2/17	2/10	2/03	1/25	1/13
28	2/10	1/31	1/24	1/17	1/11	1/04	12/27	12/15	0/00
24	1/11	12/21	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	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	10/31	11/05	11/09	11/12	11/16	11/19	11/22	11/26	12/01
32	11/05	11/14	11/21	11/27	12/02	12/08	12/13	12/20	12/30
28	12/08	12/16	12/22	12/27	1/01	1/07	1/14	1/28	0/00
24	12/26	1/18	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	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	266	253	244	236	229	222	214	205	192
32	332	315	304	294	286	277	268	258	244
28	>365	>365	>365	>365	354	343	334	325	314
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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

Complete documentation available from:

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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	506	370	337	231	134	36	8	1	29	122	345	522	2641
60	351	233	196	113	53	5	0	0	5	39	205	370	1570
57	262	158	126	64	24	1	0	0	1	15	133	284	1068
55	205	114	90	38	13	0	0	0	0	6	95	229	790
50	90	38	26	7	2	0	0	0	0	0	31	120	314
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	517	554	688	767	931	1047	1185	1172	1078	933	645	501	10018
55	8	24	65	115	231	357	472	459	388	226	50	18	2413
57	4	12	39	81	180	298	410	397	328	173	29	10	1961
60	0	3	15	40	117	213	317	304	242	104	10	3	1368
65	0	0	1	8	42	93	170	150	117	32	0	0	613
70	0	0	0	0	9	24	61	33	37	5	0	0	169

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	272	349	444	528	681	806	934	929	842	692	409	261	272	621	1065	1593	2274	3080	4014	4943	5785	6477	6886	7147
45	131	207	290	378	526	656	779	774	692	537	261	129	131	338	628	1006	1532	2188	2967	3741	4433	4970	5231	5360
50	44	93	147	232	371	506	624	619	542	382	127	39	44	137	284	516	887	1393	2017	2636	3178	3560	3687	3726
55	3	20	53	107	224	356	469	464	392	231	41	1	3	23	76	183	407	763	1232	1696	2088	2319	2360	2361
60	0	0	3	35	102	211	314	309	244	104	4	0	0	0	3	38	140	351	665	974	1218	1322	1326	1326
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	146	194	253	321	419	499	593	592	527	420	233	142	146	340	593	914	1333	1832	2425	3017	3544	3964	4197	4339

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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