

# Climatology of the United States

## No. 20 1971-2000

Station: U C L A, CA

COOP ID: 049152

Climate Division: CA 6

NWS Call Sign:

Elevation: 430 Feet

Lat: 34°04N

Lon: 118°27W

### 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	66.3	49.4	57.9	91	1971	18	63.3	1986	30	1949	4	54.3	1979	229	8	.0	.1	30.9	.0	.0	.0
Feb	66.9	49.9	58.4	91	1995	3	62.7	1995	36+	1989	8	53.5	1975	199	9	.0	.1	28.2	.0	.0	.0
Mar	66.7	50.7	58.7	94	1988	26	63.4	1988	37	1953	2	54.4	1973	197	15	.0	.2	31.0	.0	.0	.0
Apr	69.2	53.3	61.3	103	1989	6	65.8	1992	40+	1982	2	54.5	1975	142	30	@	.4	30.0	.0	.0	.0
May	69.6	56.1	62.9	97+	1979	13	68.3	1997	45+	1988	6	58.8	1975	113	46	.0	.2	31.0	.0	.0	.0
Jun	73.2	59.3	66.3	108	1990	26	71.4	1981	44	1950	11	61.5	1975	55	92	.1	.9	30.0	.0	.0	.0
Jul	76.9	62.1	69.5	103	1959	10	73.2	1984	52	1955	27	65.8	1987	11	150	.1	.7	31.0	.0	.0	.0
Aug	78.2	63.1	70.7	98+	1983	6	74.9	1983	51	1950	16	66.2	1975	18	193	.0	1.4	31.0	.0	.0	.0
Sep	77.9	62.4	70.2	107+	1963	26	77.6	1984	48	1955	30	64.8	1986	28	183	.2	2.7	30.0	.0	.0	.0
Oct	75.2	58.9	67.1	103+	1958	16	71.7	1999	40	1971	29	63.5	2000	42	105	.1	1.8	31.0	.0	.0	.0
Nov	70.7	53.9	62.3	97	1976	4	67.1	1976	33	1958	17	57.9	1994	126	44	.0	.4	30.0	.0	.0	.0
Dec	67.0	50.1	58.6	94	1958	3	63.5	1979	33	1990	22	52.4	1971	219	18	.0	.1	30.9	.0	.0	.0
Ann	71.5	55.8	63.7	108	Jun 1990	26	77.6	Sep 1984	30	Jan 1949	4	52.4	Dec 1971	1379	893	.5	9.0	365.0	.0	.0	.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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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### 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	4.09	2.39	5.75	1956	26	20.11	1995	.00+	1976	6.6	5.0	2.7	1.6	.00	.06	.40	.88	1.52	2.32	3.37	4.77	6.83	10.48	14.22
Feb	4.93	2.99	5.60	1993	8	20.51	1998	.00	1984	6.3	4.7	2.7	1.8	.03	.18	.63	1.22	1.98	2.93	4.14	5.78	8.15	12.35	16.64
Mar	3.54	2.98	4.37	1968	8	11.16	1978	.00+	1997	6.3	4.8	2.4	1.0	.00	.27	.84	1.39	1.98	2.64	3.42	4.38	5.71	7.93	10.10
Apr	.86	.50	2.40	1960	27	4.26	1983	.00+	1997	3.1	1.8	.6	.1	.00	.00	.00	.03	.18	.38	.65	1.00	1.50	2.40	3.31
May	.34	.03	2.32	1977	8	3.70	1977	.00+	1999	1.4	.6	.2	.1	.00	.00	.00	.00	.00	.02	.08	.21	.49	.97	1.66
Jun	.11	.00	1.29	1993	5	1.29	1993	.00+	2000	.7	.2	.1	@	.00	.00	.00	.00	.00	.00	.00	.04	.14	.37	.64
Jul	.02	.00	.25	1969	11	.16+	1992	.00+	2000	.3	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.11
Aug	.16	.00	3.07	1977	17	3.23	1977	.00+	1999	.6	.2	.1	@	.00	.00	.00	.00	.00	.00	.00	.01	.10	.48	.88
Sep	.32	.04	1.73	1976	10	2.81	1986	.00+	1996	1.6	.5	.2	.1	.00	.00	.00	.00	.01	.05	.13	.26	.50	.87	1.40
Oct	.57	.28	1.77	1996	30	4.76	1987	.00+	1999	2.3	1.0	.3	.2	.00	.00	.00	.04	.12	.23	.39	.61	.96	1.59	2.27
Nov	1.35	.79	5.13	1970	29	5.05	1985	.00+	2000	3.1	2.1	1.1	.4	.00	.00	.05	.20	.41	.69	1.05	1.55	2.30	3.62	4.99
Dec	2.39	1.65	3.77	1974	4	7.46	1971	.00	1989	4.7	3.2	1.7	.8	.01	.09	.30	.59	.96	1.42	2.01	2.80	3.94	5.97	8.05
Ann	18.68	15.75	5.75	Jan 1956	26	20.51	Feb 1998	.00+	Nov 2000	37.0	24.2	12.1	6.1	5.46	7.23	9.90	12.21	14.46	16.80	19.38	22.43	26.37	32.55	38.29

+ 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															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	.0	.0	0	0	.0	0	0	.0	0	0	0	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	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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<b>Freeze Data</b>									
<b>Spring Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of later date in spring (thru Jul 31) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	12/23	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>32</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>28</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>24</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>20</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>16</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Fall Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of earlier date in fall (beginning Aug 1) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	2/06	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>32</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>28</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>24</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>20</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>16</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Freeze Free Period</b>									
<b>Temp (F)</b>	<b>Probability of longer than indicated freeze free period (Days)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>32</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>28</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>24</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>20</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>16</b>	>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

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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	229	199	197	142	113	55	11	18	28	42	126	219	1379
60	109	91	103	58	38	13	0	3	7	7	50	111	590
57	60	48	57	26	15	4	0	0	0	1	23	65	299
55	34	27	34	14	7	1	0	0	0	0	13	40	170
50	6	5	7	1	0	0	0	0	0	0	2	9	30
32	0	0	0	0	0	0	0	0	0	0	0	0	0

### Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	802	740	828	879	956	1027	1162	1198	1145	1086	908	822	11553
55	123	123	148	202	250	338	449	485	455	373	231	149	3326
57	87	89	110	154	195	281	387	423	395	312	181	112	2726
60	42	47	63	97	126	200	295	332	312	225	118	65	1922
65	8	9	15	30	46	92	150	193	183	105	44	18	893
70	0	0	1	6	9	27	50	90	91	32	10	3	319

### 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	577	550	587	633	697	779	905	947	904	841	679	593	577	1127	1714	2347	3044	3823	4728	5675	6579	7420	8099	8692
45	422	406	432	483	542	629	750	792	754	686	529	438	422	828	1260	1743	2285	2914	3664	4456	5210	5896	6425	6863
50	271	263	277	333	387	479	595	637	604	531	380	286	271	534	811	1144	1531	2010	2605	3242	3846	4377	4757	5043
55	140	134	138	193	233	329	440	482	454	378	235	153	140	274	412	605	838	1167	1607	2089	2543	2921	3156	3309
60	54	53	47	83	98	182	285	327	304	226	111	59	54	107	154	237	335	517	802	1129	1433	1659	1770	1829
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	297	284	297	347	388	472	592	629	593	522	387	312	297	581	878	1225	1613	2085	2677	3306	3899	4421	4808	5120

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://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 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/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)