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: KING CITY, CA **COOP ID: 044555**

Climate Division: CA 4 **NWS Call Sign:** **Elevation: 320 Feet** **Lat: 36˚12N** **Lon: 121˚07W**

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	63.2	37.2	50.2	89	1931	4	56.0	1986	15+	1976	1	45.8	1982	460	0	.0	.0	30.5	.0	11.3	.0
Feb	66.2	40.3	53.3	90	1977	16	58.1	1991	19	1929	11	50.1	1990	330	0	.0	@	27.8	.1	5.4	.0
Mar	68.9	42.1	55.5	91	1966	31	60.5	1978	22	1971	2	51.3	1973	301	6	.0	@	31.0	.0	2.6	.0
Apr	74.8	43.1	59.0	102	1981	29	64.1	1992	24	1927	10	52.6	1975	202	21	.1	1.5	30.0	.0	1.2	.0
May	78.4	46.9	62.7	108	1976	12	67.6	1997	31+	1975	7	58.5	1998	119	46	.4	3.2	31.0	.0	.1	.0
Jun	83.0	50.2	66.6	112+	2000	14	70.9	1973	36+	1975	25	63.8	1991	40	89	1.4	5.7	30.0	.0	.0	.0
Jul	85.1	52.9	69.0	110	1931	3	72.0	1984	34	1936	14	65.7	1987	8	131	.9	6.0	31.0	.0	.0	.0
Aug	85.2	53.1	69.2	113+	1931	24	71.6	1983	31	1964	1	66.4	1975	4	132	.6	6.4	31.0	.0	.0	.0
Sep	85.0	51.2	68.1	113	1955	2	73.2	1984	32	1950	30	62.8	1986	27	120	1.5	7.0	30.0	.0	.0	.0
Oct	79.9	46.5	63.2	109	1980	1	66.5	1991	23+	1935	31	59.1	1971	106	50	.6	5.0	31.0	.0	.8	.0
Nov	69.4	40.1	54.8	95	1930	2	59.5	1995	20+	1958	17	49.0	1994	311	3	.0	.2	30.0	.0	5.9	.0
Dec	63.2	36.1	49.7	90	1958	3	54.4	1977	14+	1990	23	44.4	1990	476	0	.0	.0	30.1	.0	13.8	.0
Ann	75.2	45.0	60.1	113+	Sep 1955	2	73.2	Sep 1984	14+	Dec 1990	23	44.4	Dec 1990	2384	598	5.5	35.0	363.4	.1	41.1	.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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1927-2001

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

Issue Date: February 2004

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: KING CITY, CA **COOP ID: 044555**

Climate Division: CA 4 **NWS Call Sign:** **Elevation: 320 Feet** **Lat: 36˚12N** **Lon: 121˚07W**

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	2.35	1.80	3.32	1963	31	6.46	1978	.00	1976
Feb	2.65	1.78	2.70	1998	3	10.50	1998	.01	1977
Mar	2.49	2.10	3.00	1995	10	8.47	1991	.00	1972
Apr	.74	.52	1.58	1982	10	2.86	1982	.00+	1993
May	.24	.02	.79	1958	23	2.11	1998	.00+	1997
Jun	.07	.00	.78	1929	9	.55	1972	.00+	1999
Jul	.01	.00	.15	1936	9	.20	1980	.00+	2000
Aug	.05	.00	.87	1976	18	1.14	1976	.00+	1999
Sep	.25	.00	1.34	1989	28	2.56	1976	.00+	2000
Oct	.55	.39	1.88	1996	29	2.49	1996	.00+	1999
Nov	1.23	.95	1.69	1970	28	4.28	1972	.00+	2000
Dec	1.67	1.25	2.41	1955	23	4.63	1996	.00+	1993
Ann	12.30	11.60	3.32	Jan 1963	31	10.50	Feb 1998	.00+	Nov 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.6	4.8	1.7	.5
Feb	7.1	4.8	1.7	.6
Mar	7.2	5.1	1.6	.5
Apr	3.6	2.0	.2	.1
May	1.2	.6	.2	.0
Jun	.4	.2	@	.0
Jul	.2	.1	.0	.0
Aug	.3	.1	@	.0
Sep	1.0	.6	.1	@
Oct	2.0	1.3	.3	@
Nov	4.5	3.0	.8	.2
Dec	6.0	3.5	1.1	.3
Ann	41.1	26.1	7.7	2.2

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	.04	.17	.46	.78	1.15	1.60	2.14	2.84	3.83	5.53	7.22
Feb	.05	.12	.35	.65	1.04	1.54	2.18	3.06	4.35	6.64	9.01
Mar	.07	.25	.58	.94	1.34	1.79	2.34	3.04	4.00	5.63	7.24
Apr	.00	.00	.04	.13	.25	.40	.60	.87	1.25	1.92	2.61
May	.00	.00	.00	.00	.00	.00	.06	.17	.38	.79	1.25
Jun	.00	.00	.00	.00	.00	.00	.00	.00	.07	.23	.41
Jul	**	**	**	**	**	**	**	**	**	**	**
Aug	**	**	**	**	**	**	**	**	**	**	**
Sep	.00	.00	.00	.00	.00	.00	.00	.03	.22	.80	1.45
Oct	.00	.00	.00	.07	.18	.31	.47	.67	.96	1.46	1.95
Nov	.00	.03	.17	.33	.53	.78	1.08	1.48	2.05	3.03	4.03
Dec	.00	.10	.35	.60	.88	1.20	1.58	2.05	2.71	3.82	4.91
Ann	4.98	6.11	7.70	9.02	10.26	11.51	12.87	14.44	16.42	19.45	22.21

\+ 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: 1927-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: KING CITY, CA **COOP ID: 044555**

Climate Division: CA 4 **NWS Call Sign:** **Elevation: 320 Feet** **Lat: 36°12N** **Lon: 121°07W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.0	.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	.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	.0	0	0	.0	0	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	.5	1990	19	.5	1990	0	0	0	0	0
Ann	.5	Dec 1990	19	.5	Dec 1990	0	0	0	0	0

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.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	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	@	.0	.0	.0	.0
Ann	@	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.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	.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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: KING CITY, CA **COOP ID: 044555**

Climate Division: CA 4 **NWS Call Sign:** **Elevation: 320 Feet** **Lat: 36˚12N** **Lon: 121˚07W**

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	5/28	5/16	5/07	4/30	4/23	4/16	4/08	3/30	3/18
32	4/28	4/14	4/04	3/26	3/18	3/10	3/01	2/19	2/05
28	3/25	3/09	2/26	2/16	2/08	1/30	1/20	1/09	12/24
24	2/22	2/07	1/27	1/17	1/07	12/27	12/09	0/00	0/00
20	1/22	1/06	12/15	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	10/09	10/15	10/20	10/24	10/27	10/31	11/03	11/08	11/14
32	10/20	10/27	11/02	11/06	11/10	11/14	11/18	11/24	12/01
28	11/03	11/12	11/18	11/23	11/28	12/03	12/08	12/14	12/23
24	12/05	12/13	12/19	12/25	12/31	1/07	1/21	0/00	0/00
20	12/20	1/08	2/01	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	230	215	204	195	187	178	169	159	144
32	286	269	257	246	236	226	215	203	186
28	349	327	313	302	291	281	270	257	239
24	>365	>365	>365	>365	>365	342	329	317	304
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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: KING CITY, CA **COOP ID: 044555**

Climate Division: CA 4 **NWS Call Sign:** **Elevation: 320 Feet** **Lat: 36˚12N** **Lon: 121˚07W**

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	460	330	301	202	119	40	8	4	27	106	311	476	2384
60	309	197	169	103	43	6	0	0	4	35	178	324	1368
57	224	127	109	60	18	1	0	0	0	14	115	238	906
55	173	90	77	37	10	0	0	0	0	6	81	185	659
50	79	25	21	9	1	0	0	0	0	0	25	86	246
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	564	594	728	809	950	1039	1146	1152	1082	967	682	548	10261
55	24	40	92	156	247	349	433	439	392	260	73	20	2525
57	13	21	62	119	193	290	371	377	332	205	47	10	2040
60	5	7	29	72	126	205	278	284	246	133	21	3	1409
65	0	0	6	21	46	89	131	132	120	50	3	0	598
70	0	0	0	4	10	22	33	27	39	10	0	0	145

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	305	370	463	548	690	788	880	893	823	705	419	287	305	675	1138	1686	2376	3164	4044	4937	5760	6465	6884	7171
45	160	228	310	398	535	638	725	738	673	550	272	146	160	388	698	1096	1631	2269	2994	3732	4405	4955	5227	5373
50	62	109	170	252	380	488	570	583	523	396	143	49	62	171	341	593	973	1461	2031	2614	3137	3533	3676	3725
55	10	32	66	128	225	338	415	428	373	246	53	4	10	42	108	236	461	799	1214	1642	2015	2261	2314	2318
60	0	1	13	45	105	190	261	273	224	121	9	0	0	1	14	59	164	354	615	888	1112	1233	1242	1242
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	207	239	297	369	432	486	556	564	512	454	292	206	207	446	743	1112	1544	2030	2586	3150	3662	4116	4408	4614

(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.
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