

Climatography of the United States

No. 20

1971-2000

Station: QUINCY, CA

COOP ID: 047195

Climate Division: CA 2

NWS Call Sign:

Elevation: 3,420 Feet Lat: 39° 56N

Lon: 120° 57W

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	47.4	24.1	35.8	67	1962	9	39.9	1986	-19+	1950	3	26.2	1972	907	0	.0	.0	9.5	.3	27.5	.4
Feb	53.3	26.6	40.0	78+	1991	27	47.9	1991	-19	1949	13	34.0	1989	702	0	.0	.0	19.0	.3	24.0	.3
Mar	58.8	29.3	44.1	83+	1966	31	48.9	1994	0+	1955	1	37.0	1977	650	0	.0	.0	25.5	.0	23.6	.0
Apr	65.2	31.2	48.2	88+	1985	15	53.9	1992	12	1982	6	40.5	1975	505	1	.0	.1	27.8	@	18.8	.0
May	74.6	36.7	55.7	100	1992	24	66.2	1992	20	1984	7	48.7	1977	308	18	@	1.7	30.1	.0	7.6	.0
Jun	83.4	41.7	62.6	105+	1987	26	66.8	1977	25+	1955	1	57.8	1980	119	46	.7	7.9	30.0	.0	1.5	.0
Jul	91.1	44.2	67.7	109	1994	21	74.3	1994	29+	1987	22	61.9	1983	47	129	2.3	17.8	31.0	.0	.4	.0
Aug	90.5	42.4	66.5	110+	1990	7	72.2	1992	25+	1955	30	60.1	1976	65	109	2.5	16.9	31.0	.0	1.0	.0
Sep	84.3	37.5	60.9	110	1988	5	68.3	1991	15	1972	28	55.1	1978	175	52	.7	8.7	30.0	.0	5.6	.0
Oct	73.3	31.2	52.3	98	1988	22	58.7	1991	10	1949	18	47.1	1971	405	9	.0	1.5	29.6	.0	17.8	.0
Nov	56.5	28.2	42.4	86	1990	9	50.0	1995	-3	1985	12	37.8	1994	679	0	.0	.0	24.1	.1	23.4	@
Dec	46.6	23.5	35.1	68	1995	1	41.7	1995	-24	1972	12	28.3+	1990	928	0	.0	.0	9.3	.7	27.6	.5
Ann	68.8	33.1	50.9	110+	Aug 1990	7	74.3	Jul 1994	-24	Dec 1972	12	26.2	Jan 1972	5490	364	6.2	54.6	296.9	1.4	178.8	1.2

+ 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

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: QUINCY, CA

COOP ID: 047195

Climate Division: CA 2

NWS Call Sign:

Elevation: 3,420 Feet Lat: 39° 56N

Lon: 120° 57W

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	6.77	5.76	4.51	1969	21	19.15	1978	.41	1991	9.1	6.8	4.1	2.1	.52	.96	1.84	2.78	3.81	5.00	6.43	8.23	10.72	14.92	19.06
Feb	6.75	5.17	4.70	1975	13	20.18	1986	.22	1971	9.4	7.1	3.5	1.7	.67	1.16	2.08	3.02	4.03	5.18	6.54	8.23	10.55	14.41	18.18
Mar	5.59	3.70	3.58	1971	26	17.87	1995	.57	1988	10.0	7.2	3.4	1.6	.54	.94	1.70	2.47	3.32	4.27	5.40	6.82	8.75	11.98	15.13
Apr	2.53	2.02	3.66	1950	8	10.65	1982	.07	1985	7.2	4.6	1.4	.6	.24	.42	.77	1.12	1.50	1.94	2.45	3.09	3.97	5.44	6.87
May	1.53	1.22	2.10	1956	4	4.91	1996	.03+	1982	5.3	3.2	.7	.2	.09	.18	.36	.57	.81	1.08	1.42	1.85	2.45	3.48	4.51
Jun	.71	.43	1.32	1995	16	2.68	1995	.00+	1994	3.3	1.9	.3	.1	.00	.00	.08	.19	.32	.47	.65	.88	1.20	1.73	2.26
Jul	.24	.05	1.11	1988	26	1.89	1974	.00+	2000	1.1	.6	.1	.1	.00	.00	.00	.00	.01	.05	.11	.22	.39	.72	1.08
Aug	.27	.11	2.22	1965	12	1.22	1976	.00+	2000	1.7	1.0	.1	.0	.00	.00	.00	.00	.03	.09	.18	.30	.48	.79	1.11
Sep	.84	.43	2.18	1959	18	5.51	1986	.00+	1999	3.2	1.8	.5	.2	.00	.00	.02	.11	.25	.43	.66	.98	1.44	2.26	3.11
Oct	2.55	1.74	6.10	1962	13	8.11	1981	.00+	1995	5.2	3.4	1.6	.7	.00	.08	.37	.73	1.14	1.65	2.27	3.07	4.22	6.21	8.20
Nov	4.90	3.00	4.29	1973	11	18.70	1973	.25	1992	8.4	6.1	3.1	1.4	.28	.57	1.16	1.82	2.58	3.46	4.54	5.92	7.85	11.15	14.42
Dec	5.64	4.71	5.33	1964	22	20.57	1996	.00	1989	8.8	6.3	2.7	1.5	.23	.69	1.51	2.33	3.22	4.23	5.43	6.92	8.98	12.40	15.76
Ann	38.32	36.85	6.10	Oct 1962	13	20.57	Dec 1996	.00+	Aug 2000	72.7	50.0	21.5	10.2	17.03	20.44	25.19	29.05	32.66	36.29	40.19	44.65	50.28	58.81	66.52

+ 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: QUINCY, CA

COOP ID: 047195

Climate Division: CA 2

NWS Call Sign:

Elevation: 3,420 Feet

Lat: 39° 56N

Lon: 120° 57W

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	5.4	.0	1	0	14.0	1982	4	21.0	1972	19	1971	14	9	1972	1.6	1.4	.6	.4	.3	3.1	2.8	2.6	1.4
Feb	1.1	.0	#	0	4.0	2000	23	8.5	2000	9	1972	3	2	1972	.5	.5	.3	.0	.0	.6	.4	.3	.0
Mar	4.7	.0	#	0	10.0	1982	31	30.0	1982	7	1998	6	#+	1998	.9	.9	.7	.4	.1	.1	.0	.0	.0
Apr	3.2	.0	#	0	18.0	1982	2	32.0	1982	5	1998	13	#+	1998	.5	.5	.3	.2	.1	@	.0	.0	.0
May	#	.0	0	0	#	1971	21	#	1971	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	#	2000	14	#+	2000	3	1978	13	#+	2000	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Dec	7.4	.0	1	0	22.0	1971	25	49.5	1971	30	1972	8	12	1972	-9.9	-9.9	-9.9	-9.9	-9.9	1.6	1.2	1.1	.4
Ann	21.8	.0	N/A	N/A	22.0	Dec 1971	25	49.5	Dec 1971	30	Dec 1972	8	12	Dec 1972	-9.9	-9.9	-9.9	-9.9	-9.9	5.4	4.4	4.0	1.8

+ 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:

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Climate Division: CA 2

NWS Call Sign:

Elevation: 3,420 Feet

Lat: 39° 56N

Lon: 120° 57W

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	7/28	7/21	7/16	7/12	7/09	7/05	7/01	6/26	6/20
32	7/10	7/01	6/24	6/18	6/13	6/07	6/02	5/26	5/16
28	6/01	5/24	5/18	5/14	5/09	5/04	4/29	4/24	4/16
24	5/20	5/07	4/27	4/18	4/11	4/03	3/25	3/16	3/02
20	4/17	4/01	3/21	3/11	3/02	2/20	2/11	1/30	1/14
16	3/19	3/02	2/17	2/06	1/27	1/17	1/06	12/23	12/02
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	7/31	8/07	8/13	8/18	8/22	8/27	9/01	9/07	9/15
32	8/11	8/21	8/28	9/03	9/08	9/14	9/19	9/26	10/06
28	9/05	9/13	9/19	9/24	9/29	10/03	10/08	10/14	10/22
24	9/24	10/02	10/08	10/13	10/17	10/22	10/27	11/01	11/09
20	10/07	10/16	10/23	10/29	11/04	11/09	11/15	11/22	12/02
16	10/24	11/08	11/18	11/27	12/06	12/15	12/24	1/05	1/22
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	81	69	59	52	44	37	29	20	7
32	130	115	104	95	86	78	69	58	43
28	184	169	159	150	142	134	125	114	100
24	242	224	211	199	189	178	167	154	136
20	303	284	270	258	246	235	223	209	189
16	>365	>365	340	320	305	292	279	264	244

* 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	907	702	650	505	308	119	47	65	175	405	679	928	5490
60	752	562	495	362	189	46	11	18	92	271	529	773	4100
57	659	478	406	282	134	21	4	7	55	202	441	680	3369
55	597	422	349	233	102	11	0	3	37	162	383	618	2917
50	444	290	215	132	43	2	0	0	12	82	249	464	1933
32	53	15	6	0	0	0	0	0	0	0	9	63	146

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	170	237	379	486	733	916	1105	1067	867	627	320	158	7065
55	0	0	8	29	122	237	392	357	215	76	4	0	1440
57	0	0	4	18	91	187	334	299	173	54	2	0	1162
60	0	0	0	8	54	122	248	217	119	30	0	0	798
65	0	0	0	1	18	46	129	109	52	9	0	0	364
70	0	0	0	0	4	10	51	38	17	2	0	0	122

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	19	54	145	263	474	687	849	821	630	371	98	17	19	73	218	481	955	1642	2491	3312	3942	4313	4411	4428
45	0	19	53	140	321	537	694	666	480	235	33	1	0	19	72	212	533	1070	1764	2430	2910	3145	3178	3179
50	0	0	10	55	192	388	539	511	335	127	6	0	0	0	10	65	257	645	1184	1695	2030	2157	2163	2163
55	0	0	0	13	95	248	384	358	203	51	0	0	0	0	0	13	108	356	740	1098	1301	1352	1352	1352
60	0	0	0	0	37	131	236	211	98	15	0	0	0	0	0	0	37	168	404	615	713	728	728	728
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	26	73	146	237	359	473	544	541	468	338	108	20	26	99	245	482	841	1314	1858	2399	2867	3205	3313	3333

(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