

Climatography of the United States

No. 20

1971-2000

Station: GILROY, CA

COOP ID: 043417

Climate Division: CA 4

NWS Call Sign:

Elevation: 194 Feet Lat: 37°00N

Lon: 121°34W

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	59.9	39.4	49.7	78	1962	9	53.7	1995	18	1963	15	45.4	1972	477	0	.0	.0	30.0	.0	8.4	.0
Feb	64.0	42.5	53.3	86	1991	26	57.7	1991	23+	1990	15	49.6	1990	329	0	.0	.0	27.7	@	3.0	.0
Mar	67.2	44.9	56.1	90	1997	20	60.0	1978	23	1962	1	51.5	1973	284	6	.0	@	30.9	.0	.6	.0
Apr	73.0	46.6	59.8	100	1981	30	64.3	1992	31	1976	1	54.5	1975	178	22	@	1.0	30.0	.0	.1	.0
May	78.2	50.6	64.4	106	1997	18	69.9	1997	31+	1964	9	59.6	1998	95	76	.5	3.8	31.0	.0	.0	.0
Jun	84.2	54.0	69.1	112	1961	15	75.6	1981	36	1976	7	65.7	1991	19	141	1.7	7.3	30.0	.0	.0	.0
Jul	88.3	55.7	72.0	115	1972	15	74.5	1996	41	1981	19	68.1	1987	2	218	2.2	12.2	31.0	.0	.0	.0
Aug	87.9	55.8	71.9	112	1997	6	74.4	1992	39	1964	21	69.6	1987	1	213	2.1	12.1	31.0	.0	.0	.0
Sep	85.8	54.3	70.1	109	1971	15	74.1	1984	40	1986	26	64.2	1986	13	164	1.7	9.4	30.0	.0	.0	.0
Oct	79.0	49.5	64.3	107	1980	2	67.7	1991	29	1971	30	58.8	1971	92	69	.4	4.5	31.0	.0	.1	.0
Nov	67.2	43.2	55.2	94	1997	3	61.6	1995	23+	1961	18	51.1+	1994	298	4	.0	@	30.0	.0	2.3	.0
Dec	60.2	38.2	49.2	79+	1958	15	55.3	1977	17+	1990	24	43.9	1990	490	0	.0	.0	29.9	.0	9.3	.0
Ann	74.6	47.9	61.3	115	Jul 1972	15	75.6	Jun 1981	17+	Dec 1990	24	43.9	Dec 1990	2278	913	8.6	50.3	362.5	@	23.8	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1957-2001

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

079-A

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: GILROY, CA

COOP ID: 043417

Climate Division: CA 4

NWS Call Sign:

Elevation: 194 Feet Lat: 37°00N

Lon: 121°34W

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	4.30	3.11	4.55	1963	31	11.89	1997	.21	1976	10.5	7.1	3.1	1.3	.29	.55	1.09	1.68	2.34	3.11	4.03	5.21	6.85	9.62	12.36
Feb	4.10	3.01	3.21	1963	1	13.18	1998	.16	1997	8.6	5.7	2.6	1.1	.30	.56	1.08	1.65	2.28	3.00	3.87	4.98	6.52	9.10	11.66
Mar	3.64	2.86	2.82	1991	4	13.22	1991	.02	1972	9.9	6.6	2.7	.8	.21	.42	.87	1.36	1.92	2.58	3.38	4.40	5.84	8.28	10.71
Apr	1.16	.71	3.65	1958	3	4.68	1982	.00	1977	5.3	3.1	.5	.2	.03	.11	.27	.44	.62	.84	1.10	1.42	1.88	2.64	3.39
May	.41	.13	1.87	1996	16	2.34	1996	.00+	1992	2.7	1.0	.1	.1	.00	.00	.00	.01	.06	.14	.26	.43	.69	1.18	1.69
Jun	.10	.00	.77	1967	2	.76	1993	.00+	1999	.8	.5	.0	.0	.00	.00	.00	.00	.00	.00	.03	.09	.18	.34	.50
Jul	.06	.00	.66	1974	9	.80	1974	.00+	2000	.3	.2	.1	.0	.00	.00	.00	.00	.00	.00	.00	.00	.01	.15	.38
Aug	.05	.00	.68	1976	19	1.00	1976	.00+	2000	.4	.2	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11	.35
Sep	.33	.02	5.97	1959	19	2.67	1976	.00+	1998	1.3	.7	.2	@	.00	.00	.00	.00	.00	.01	.07	.21	.47	.94	1.55
Oct	.93	.57	1.97	1981	28	3.18	2000	.00+	1999	3.1	1.8	.7	.2	.00	.00	.03	.16	.32	.52	.78	1.11	1.59	2.41	3.27
Nov	2.52	1.59	2.54	1972	15	7.50	1972	.00	1992	7.4	4.3	1.8	.7	.03	.14	.41	.74	1.13	1.61	2.22	3.01	4.14	6.11	8.09
Dec	3.00	2.88	2.81	1995	12	9.15	1996	.01	1989	8.9	5.4	1.9	.8	.18	.35	.72	1.12	1.59	2.13	2.79	3.63	4.81	6.82	8.82
Ann	20.60	21.39	5.97	Sep 1959	19	13.22	Mar 1991	.00+	Aug 2000	59.2	36.6	13.7	5.2	9.07	10.92	13.48	15.57	17.53	19.50	21.61	24.03	27.09	31.73	35.92

+ 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: 1957-2001

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

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

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: GILROY, CA

COOP ID: 043417

Climate Division: CA 4

NWS Call Sign:

Elevation: 194 Feet

Lat: 37°00N

Lon: 121°34W

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

Complete documentation available from:

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

Climatography of the United States

No. 20 1971-2000

Station: GILROY, CA

COOP ID: 043417

Climate Division: CA 4

NWS Call Sign:

Elevation: 194 Feet

Lat: 37°00N

Lon: 121°34W

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	4/28	4/18	4/10	4/04	3/29	3/23	3/17	3/09	2/27
32	3/20	3/10	3/02	2/23	2/17	2/11	2/05	1/28	1/17
28	2/13	2/03	1/27	1/21	1/15	1/09	1/02	12/23	0/00
24	1/28	1/15	1/03	12/16	0/00	0/00	0/00	0/00	0/00
20	12/20	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	10/27	11/01	11/05	11/09	11/12	11/15	11/18	11/22	11/28
32	10/31	11/10	11/17	11/23	11/28	12/04	12/10	12/17	12/27
28	11/28	12/06	12/11	12/16	12/21	12/26	12/31	1/09	0/00
24	12/18	1/03	1/19	0/00	0/00	0/00	0/00	0/00	0/00
20	1/14	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	261	249	241	234	227	220	213	204	193
32	322	307	297	289	281	274	266	257	245
28	>365	>365	>365	348	337	328	319	310	297
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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: GILROY, CA

COOP ID: 043417

Climate Division: CA 4

NWS Call Sign:

Elevation: 194 Feet Lat: 37°00N Lon: 121°34W

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	477	329	284	178	95	19	2	1	13	92	298	490	2278
60	323	197	154	82	31	2	0	0	1	30	169	339	1328
57	237	128	96	43	13	0	0	0	0	12	108	254	891
55	183	91	66	24	7	0	0	0	0	6	76	202	655
50	81	27	16	5	0	0	0	0	0	0	24	100	253
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	546	596	745	834	1004	1112	1240	1236	1141	1000	696	534	10684
55	16	43	98	168	298	422	527	523	451	293	83	22	2944
57	8	23	66	127	242	363	465	461	391	237	55	12	2450
60	1	8	31	77	168	275	372	368	302	162	26	4	1794
65	0	0	6	22	76	141	218	213	164	69	4	0	913
70	0	0	0	4	22	50	87	79	64	19	0	0	325

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	283	374	479	575	739	851	980	983	894	746	442	275	283	657	1136	1711	2450	3301	4281	5264	6158	6904	7346	7621
45	143	232	325	425	584	701	825	828	744	591	292	137	143	375	700	1125	1709	2410	3235	4063	4807	5398	5690	5827
50	49	109	180	276	429	551	670	673	594	436	157	44	49	158	338	614	1043	1594	2264	2937	3531	3967	4124	4168
55	8	33	74	149	276	402	515	518	444	285	67	5	8	41	115	264	540	942	1457	1975	2419	2704	2771	2776
60	0	1	17	57	146	259	361	363	295	152	13	0	0	1	18	75	221	480	841	1204	1499	1651	1664	1664
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	164	217	280	354	446	526	608	612	551	458	271	170	164	381	661	1015	1461	1987	2595	3207	3758	4216	4487	4657

(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