

Climatology of the United States

No. 20

1971-2000

Station: HAIWEE, CA

COOP ID: 043710

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,825 Feet Lat: 36°08N

Lon: 117°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	52.5	28.5	40.5	76	1969	8	45.6	1996	9	1974	3	33.5	1974	760	0	.0	.0	20.5	.4	23.4	.0
Feb	57.6	32.1	44.9	79+	1989	26	51.3	1995	11+	1990	16	39.8	1979	565	0	.0	.0	22.9	.5	14.3	.0
Mar	63.3	36.3	49.8	83+	1997	21	57.1	1972	17	1964	6	44.0	1973	477	5	.0	.0	28.9	.0	7.7	.0
Apr	70.7	41.0	55.9	94	1996	27	64.0	1989	16	1963	21	46.8	1975	302	27	.0	.3	29.6	.0	1.5	.0
May	79.7	48.0	63.9	101	2000	24	71.4	1997	31	1964	5	53.7	1977	152	116	.1	4.0	30.9	.0	.1	.0
Jun	89.9	55.9	72.9	109	2000	16	77.6	1981	38	1995	8	67.7	1998	14	251	2.5	16.7	30.0	.0	.0	.0
Jul	95.8	61.6	78.7	113	1998	19	83.1	1994	44	1982	1	74.7	1987	0	424	7.8	27.2	31.0	.0	.0	.0
Aug	94.2	60.5	77.4	113	1981	8	82.2	1994	49+	1976	16	70.2	1976	1	383	5.8	24.8	31.0	.0	.0	.0
Sep	87.0	53.9	70.5	105	1996	1	74.1	1995	37	1948	25	64.6	1985	27	190	.6	12.9	30.0	.0	.0	.0
Oct	76.0	43.7	59.9	97	1996	9	65.5	1988	26+	2000	11	54.7	1972	204	44	.0	2.0	30.8	.0	.8	.0
Nov	62.3	33.2	47.8	83	1997	1	56.0	1995	16	1994	28	42.4	1994	517	1	.0	.0	27.7	.0	10.0	.0
Dec	53.1	27.6	40.4	76	1964	24	45.7	1999	1	1984	23	33.7	1984	765	0	.0	.0	22.1	.4	23.0	.0
Ann	73.5	43.5	58.6	113+	Jul 1998	19	83.1	Jul 1994	1	Dec 1984	23	33.5	Jan 1974	3784	1441	16.8	87.9	335.4	1.3	80.8	.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/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

084-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: HAIWEE, CA

COOP ID: 043710

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,825 Feet Lat: 36°08N

Lon: 117°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	1.22	.81	2.35	1995	5	7.32	1995	.00+	1984	4.4	2.7	.8	.3	.00	.00	.08	.25	.45	.71	1.03	1.45	2.07	3.12	4.19
Feb	1.48	.84	2.04	1962	19	5.99	1998	.00	1974	4.5	2.8	1.0	.4	.00	.04	.15	.32	.54	.82	1.19	1.70	2.45	3.80	5.20
Mar	1.34	.93	2.65	1983	2	5.19	1983	.00+	1997	4.7	2.8	.8	.3	.00	.00	.19	.40	.63	.90	1.23	1.65	2.23	3.23	4.23
Apr	.31	.11	1.15	1956	13	1.41	1988	.00+	1997	2.0	.7	.2	.0	.00	.00	.00	.01	.06	.13	.23	.35	.54	.87	1.21
May	.34	.18	1.36	1977	9	1.82	1977	.00+	1993	2.4	1.0	.1	@	.00	.00	.00	.02	.08	.16	.26	.40	.60	.95	1.31
Jun	.08	.01	.46	1963	12	.49	1997	.00+	2000	.7	.2	.0	.0	.00	.00	.00	.00	.00	.00	.02	.07	.13	.26	.39
Jul	.35	.13	1.03	1999	16	3.80	1984	.00+	2000	1.9	.9	.2	@	.00	.00	.00	.00	.04	.11	.21	.37	.61	1.04	1.50
Aug	.36	.06	1.50	1988	24	2.70	1983	.00+	1999	1.8	.6	.2	.1	.00	.00	.00	.00	.00	.04	.12	.28	.56	1.10	1.73
Sep	.39	.10	1.60	1997	26	3.24	1976	.00+	2000	1.7	.9	.2	.1	.00	.00	.00	.00	.03	.09	.21	.38	.66	1.19	1.77
Oct	.15	.03	.82	1963	18	1.05	1974	.00+	1999	1.4	.5	.1	.0	.00	.00	.00	.00	.01	.04	.09	.16	.26	.45	.64
Nov	.48	.19	1.95	1960	6	2.63	1984	.00+	2000	2.1	1.1	.3	.1	.00	.00	.00	.03	.10	.20	.33	.53	.82	1.35	1.91
Dec	.87	.52	3.13	1966	6	2.33+	1992	.00+	2000	3.6	2.0	.6	.1	.00	.00	.00	.10	.27	.48	.73	1.06	1.52	2.32	3.11
Ann	7.37	6.61	3.13	Dec 1966	6	7.32	Jan 1995	.00+	Dec 2000	31.2	16.2	4.5	1.4	2.27	2.97	4.01	4.91	5.77	6.67	7.66	8.82	10.32	12.66	14.82

+ 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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1971-2000

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Station: HAIWEE, CA

COOP ID: 043710

Climate Division: CA 7

NWS Call Sign:

Elevation: 3,825 Feet

Lat: 36°08N

Lon: 117°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	1.8	.0	1	0	12.0	1977	6	13.0	1977	22	1974	8	8	1974	.4	.3	.2	.1	.1	.1	.1	.0	.0
Feb	1.5	.0	#	0	6.0	1976	6	12.0	1976	14	1979	1	3	1976	.4	.4	.3	.1	.0	.1	.1	.0	.0
Mar	.1	.0	#	0	1.5	1974	8	1.5	1974	3	1991	21	#+	1991	.1	.1	.0	.0	.0	.1	.0	.0	.0
Apr	.1	.0	0	0	2.0	1980	23	2.0	1980	0	0	0	0	0	.1	.1	.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	.2	.0	#	0	3.0	1985	12	3.0	1985	6	1981	28	#+	1994	.1	.1	.1	.0	.0	.1	.1	.0	.0
Dec	.7	.0	#	0	5.0	1988	16	6.0	1988	14	1984	21	3	1984	.4	.2	.1	.1	.0	.1	.1	.0	.0
Ann	4.4	.0	N/A	N/A	12.0	Jan 1977	6	13.0	Jan 1977	22	Jan 1974	8	8	Jan 1974	1.5	1.2	.7	.3	.1	.5	.4	.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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NWS Call Sign:

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Lat: 36°08N

Lon: 117°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	5/17	5/09	5/03	4/28	4/24	4/19	4/15	4/09	4/01
32	4/28	4/19	4/13	4/07	4/02	3/28	3/23	3/16	3/08
28	4/03	3/26	3/19	3/14	3/09	3/04	2/27	2/21	2/12
24	3/21	3/09	2/28	2/20	2/12	2/05	1/27	1/17	1/02
20	2/27	2/15	2/06	1/29	1/21	1/11	12/30	0/00	0/00
16	1/25	1/13	1/03	12/22	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	10/14	10/18	10/22	10/24	10/27	10/30	11/01	11/05	11/09
32	10/20	10/26	10/30	11/03	11/06	11/09	11/13	11/17	11/23
28	11/02	11/08	11/13	11/16	11/20	11/23	11/27	12/01	12/08
24	11/14	11/20	11/24	11/28	12/02	12/06	12/10	12/15	12/22
20	11/19	12/02	12/11	12/20	12/28	1/07	1/20	0/00	0/00
16	12/12	12/23	1/03	1/16	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	215	205	197	191	185	180	173	166	156
32	250	239	231	224	217	210	203	195	183
28	287	276	268	261	255	249	242	234	223
24	345	322	310	300	292	283	274	264	250
20	>365	>365	>365	>365	352	330	315	300	281
16	>365	>365	>365	>365	>365	>365	>365	>365	358

* 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	760	565	477	302	152	14	0	1	27	204	517	765	3784
60	605	425	335	193	82	3	0	0	6	109	372	610	2740
57	512	343	257	140	51	1	0	0	2	69	291	517	2183
55	450	289	211	110	36	0	0	0	1	48	241	457	1843
50	309	168	119	50	14	0	0	0	0	15	135	316	1126
32	19	1	0	0	0	0	0	0	0	0	1	22	43

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	282	360	551	715	987	1226	1447	1405	1153	863	474	281	9744
55	0	5	49	135	310	537	734	692	464	198	24	3	3151
57	0	2	33	105	263	477	672	630	405	157	14	0	2758
60	0	0	18	67	201	390	579	537	319	105	5	0	2221
65	0	0	5	27	116	251	424	383	190	44	1	0	1441
70	0	0	0	9	55	135	272	238	92	13	0	0	814

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	95	182	324	504	781	1031	1245	1203	957	658	278	96	95	277	601	1105	1886	2917	4162	5365	6322	6980	7258	7354
45	32	85	194	360	626	881	1090	1048	807	503	158	27	32	117	311	671	1297	2178	3268	4316	5123	5626	5784	5811
50	2	24	93	225	474	731	935	893	657	355	69	2	2	26	119	344	818	1549	2484	3377	4034	4389	4458	4460
55	0	3	33	122	331	581	780	738	507	221	20	0	0	3	36	158	489	1070	1850	2588	3095	3316	3336	3336
60	0	0	0	49	202	435	625	583	361	114	0	0	0	0	0	49	251	686	1311	1894	2255	2369	2369	2369
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	83	134	219	329	494	653	781	763	612	419	199	85	83	217	436	765	1259	1912	2693	3456	4068	4487	4686	4771

(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