

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: WHISKEYTOWN RESERVOIR, CA

1971-2000

COOP ID: 049621

Climate Division: CA 2

NWS Call Sign:

Elevation: 1,295 Feet Lat: 40° 37N

Lon: 122° 32W

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	53.4	35.6	44.5	78+	1984	29	48.7	1984	17	1962	22	39.6	1993	637	0	.0	.0	21.0	.0	8.3	.0
Feb	56.9	37.6	47.3	82	1995	23	54.3	1991	18+	1989	6	42.1	1999	497	0	.0	.0	22.1	.1	4.7	.0
Mar	61.8	40.4	51.1	85+	1996	19	56.3	1986	26	1971	1	46.6	1975	434	3	.0	.0	28.2	.0	2.0	.0
Apr	69.0	44.3	56.7	93	1981	30	63.1	1987	28	1997	11	49.2	1975	276	24	.0	.3	29.0	.0	.6	.0
May	78.3	51.5	64.9	103	1967	22	72.9	1992	32	1964	4	55.6	1998	122	118	.1	3.8	31.0	.0	.0	.0
Jun	87.7	58.1	72.9	110+	1961	26	77.0	1977	41	1999	8	67.0	1980	14	250	2.0	12.7	30.0	.0	.0	.0
Jul	96.1	62.9	79.5	112+	1999	13	83.7	1994	47	1963	1	74.6	1983	0	450	9.5	24.6	31.0	.0	.0	.0
Aug	95.9	61.2	78.6	115	1981	8	82.5	1996	49+	1995	29	71.2	1976	0	421	9.5	24.3	31.0	.0	.0	.0
Sep	89.0	56.7	72.9	114	1988	3	79.9	1991	40	1976	28	66.1	1986	27	262	3.4	15.9	30.0	.0	.0	.0
Oct	76.8	49.3	63.1	104	1980	3	70.9	1991	28	1971	29	56.5	1984	157	96	.8	4.2	30.8	.0	.2	.0
Nov	60.3	40.5	50.4	93	1966	1	57.6	1995	25+	1993	24	43.3	1994	442	4	.0	.0	26.8	.0	2.1	.0
Dec	53.5	35.6	44.6	80	1980	16	49.2	1989	11+	1990	22	37.2	1972	634	0	.0	.0	21.4	.2	7.5	.0
Ann	73.2	47.8	60.5	115	Aug 1981	8	83.7	Jul 1994	11+	Dec 1990	22	37.2	Dec 1972	3240	1628	25.3	85.8	332.3	.3	25.4	.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: 1960-2001

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

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: WHISKEYTOWN RESERVOIR, CA

COOP ID: 049621

Climate Division: CA 2

NWS Call Sign:

Elevation: 1,295 Feet Lat: 40°37N

Lon: 122°32W

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	11.26	9.37	7.26	1995	9	48.05	1995	.52	1976	13.2	9.9	5.9	3.6	.77	1.48	2.90	4.44	6.17	8.18	10.59	13.66	17.93	25.14	32.28
Feb	10.69	8.82	5.70	1980	18	39.39	1998	.13	1988	12.0	9.5	6.3	3.9	.44	.95	2.13	3.52	5.17	7.14	9.59	12.78	17.32	25.15	33.04
Mar	11.14	9.13	6.96	1995	9	39.62	1983	.36	1988	13.2	9.7	6.5	4.1	1.12	1.93	3.45	5.01	6.68	8.57	10.80	13.59	17.39	23.72	29.90
Apr	4.22	3.85	3.80	1982	14	12.25	1982	.13	1973	8.9	6.1	2.8	1.3	.50	.82	1.41	2.00	2.63	3.33	4.14	5.16	6.53	8.79	10.99
May	2.76	1.74	3.94	1996	17	13.09	1990	.00	1976	6.4	4.0	1.7	.8	.01	.08	.31	.63	1.04	1.57	2.26	3.19	4.57	7.00	9.52
Jun	1.07	.38	2.94	1997	4	4.54	1995	.00+	1987	3.4	1.8	.6	.2	.00	.00	.02	.13	.30	.52	.82	1.22	1.82	2.88	3.99
Jul	.41	.03	5.96	1974	9	7.08	1974	.00+	1999	1.1	.5	.2	.1	.00	.00	.00	.00	.00	.03	.11	.28	.60	1.14	1.90
Aug	.24	.07	1.85	1976	15	3.59	1976	.00+	2000	1.3	.6	.1	@	.00	.00	.00	.00	.00	.02	.09	.21	.41	.77	1.16
Sep	1.56	.68	4.24	1978	10	8.27	1977	.00+	1999	3.4	2.1	.9	.5	.00	.00	.00	.00	.29	.67	1.17	1.83	2.77	4.41	6.07
Oct	2.95	2.42	5.32	1962	10	8.24	1975	.00+	1995	5.6	3.4	1.7	1.0	.00	.18	.62	1.07	1.57	2.13	2.80	3.63	4.80	6.76	8.69
Nov	8.15	4.97	6.03	1965	15	27.78	1973	.22	1995	10.8	7.8	4.7	3.0	.25	.60	1.43	2.45	3.70	5.22	7.13	9.65	13.28	19.60	26.02
Dec	8.79	6.53	11.43	1964	22	26.82	1996	.00	1989	11.9	8.6	4.4	2.8	.25	.87	2.06	3.32	4.72	6.34	8.28	10.74	14.15	19.91	25.61
Ann	63.24	58.28	11.43	Dec 1964	22	48.05	Jan 1995	.00+	Aug 2000	91.2	64.0	35.8	21.3	27.40	33.08	41.03	47.51	53.58	59.71	66.29	73.85	83.39	97.90	111.03

+ 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: 1960-2001

(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: WHISKEYTOWN RESERVOIR, CA

COOP ID: 049621

Climate Division: CA 2

NWS Call Sign:

Elevation: 1,295 Feet

Lat: 40° 37N

Lon: 122° 32W

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	1.5	.0	#	0	7.0	1972	27	10.0	1972	11	1982	4	4	1982	.7	.6	.4	.1	.0	.5	.3	.1	.0
Feb	.8	.0	#	0	12.0	1975	1	12.0	1975	1	1972	1	#	1972	.1	.1	.1	.1	.1	@	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	13	1976	3	1	1976	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.1	.0	0	0	1.5	1975	5	1.5	1975	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	1.1	.0	0	0	18.0	1977	21	18.0	1977	0	0	0	0	0	.1	.1	.1	.1	.1	.0	.0	.0	.0
Dec	1.5	.0	0	0	6.5	1972	6	10.5	1972	6	1972	7	1	1972	.6	.4	.3	.1	.0	.4	.2	.1	.0
Ann	5.0	.0	N/A	N/A	18.0	Nov 1977	21	18.0	Nov 1977	13	Mar 1976	3	4	Jan 1982	1.6	1.3	.9	.4	.2	.9	.5	.2	.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/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: WHISKEYTOWN RESERVOIR, CA

COOP ID: 049621

Climate Division: CA 2

NWS Call Sign:

Elevation: 1,295 Feet

Lat: 40° 37N

Lon: 122° 32W

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	5/06	4/26	4/19	4/13	4/08	4/02	3/27	3/20	3/11
32	4/10	3/31	3/23	3/16	3/10	3/04	2/25	2/18	2/07
28	3/03	2/16	2/04	1/24	1/14	1/02	12/17	0/00	0/00
24	2/01	1/17	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	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	10/22	10/30	11/04	11/08	11/13	11/17	11/21	11/27	12/04
32	11/01	11/09	11/15	11/20	11/25	11/30	12/05	12/12	12/20
28	11/15	11/28	12/08	12/17	12/26	1/06	1/22	0/00	0/00
24	12/20	1/11	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	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	253	241	233	225	218	211	204	195	183
32	298	285	275	267	259	252	243	234	220
28	>365	>365	>365	>365	>365	346	326	308	287
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: WHISKEYTOWN RESERVOIR, CA

COOP ID: 049621

Climate Division: CA 2 NWS Call Sign: Elevation: 1,295 Feet Lat: 40° 37N Lon: 122° 32W

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	637	497	434	276	122	14	0	0	27	157	442	634	3240
60	482	362	293	167	58	2	0	0	8	82	305	481	2240
57	389	284	217	116	33	1	0	0	3	50	231	393	1717
55	329	235	174	87	22	0	0	0	1	34	187	336	1405
50	189	134	90	34	6	0	0	0	0	11	99	208	771
32	0	0	0	0	0	0	0	0	0	0	0	7	7

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	387	427	592	739	1020	1227	1473	1443	1225	962	552	396	10443
55	2	18	53	136	328	537	760	730	536	284	48	12	3444
57	0	11	34	104	277	477	698	668	478	237	32	7	3023
60	0	4	17	65	209	389	605	575	393	176	16	2	2451
65	0	0	3	24	118	250	450	421	262	96	4	0	1628
70	0	0	0	7	54	136	301	271	155	44	0	0	968

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	178	233	355	493	769	980	1225	1202	994	720	330	178	178	411	766	1259	2028	3008	4233	5435	6429	7149	7479	7657
45	76	121	216	349	614	830	1070	1047	844	566	194	76	76	197	413	762	1376	2206	3276	4323	5167	5733	5927	6003
50	21	48	110	216	459	680	915	892	694	414	96	24	21	69	179	395	854	1534	2449	3341	4035	4449	4545	4569
55	1	14	41	113	317	532	760	737	545	275	37	0	1	15	56	169	486	1018	1778	2515	3060	3335	3372	3372
60	0	0	5	46	191	388	605	582	400	169	9	0	0	0	5	51	242	630	1235	1817	2217	2386	2395	2395
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	91	121	194	283	467	624	766	737	612	432	172	89	91	212	406	689	1156	1780	2546	3283	3895	4327	4499	4588

(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