

Climatology of the United States

No. 20

1971-2000

Station: TAHOE VALLEY AP, CA

COOP ID: 048762

Climate Division: CA 3

NWS Call Sign: TVL

Elevation: 6,254 Feet Lat: 38° 54N

Lon: 120° 00W

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	41.0	15.1	28.1	60+	1990	11	34.3	1986	-28	1993	1	20.4	1979	1146	0	.0	.0	4.3	3.5	29.1	2.6
Feb	42.4	17.0	29.7	62+	1977	19	36.6	1991	-29	1989	7	22.7	1990	989	0	.0	.0	6.6	2.8	27.0	1.5
Mar	45.6	22.5	34.1	70	1988	27	40.2	1972	-10	1971	2	28.0	1973	960	0	.0	.0	11.4	1.8	27.9	.4
Apr	52.7	26.4	39.6	76	1981	30	45.8	1985	-1+	1975	7	26.9	1975	764	0	.0	.0	19.5	.6	26.0	.1
May	61.1	31.9	46.5	84+	1986	30	51.5	1992	7	1974	18	39.9	1977	574	0	.0	.0	26.7	@	17.3	.0
Jun	70.4	36.8	53.6	90	1988	25	58.0	1977	21	1988	9	49.0	1980	342	0	.0	@	29.4	.0	7.0	.0
Jul	78.6	39.8	59.2	99	1988	22	64.1	1988	25	1976	1	55.7	1983	192	12	.0	.7	31.0	.0	2.5	.0
Aug	78.7	38.5	58.6	96+	1981	9	66.0	1988	24	1973	24	52.1	1976	220	22	.0	1.1	31.0	.0	2.9	.0
Sep	72.0	32.5	52.3	94+	1988	5	58.4	1988	19	1984	25	45.1	1986	387	4	.0	.2	29.6	.0	10.6	.0
Oct	61.8	25.8	43.8	84	1988	2	50.0	1988	11	1971	29	38.9	1971	656	0	.0	.0	27.2	.1	25.2	.0
Nov	48.8	19.7	34.3	70+	1999	7	42.2	1995	-6	1975	29	27.9	1978	922	0	.0	.0	14.7	1.2	27.2	.3
Dec	41.8	14.1	28.0	63	1990	10	33.4	1996	-29	1972	9	20.1	1971	1148	0	.0	.0	5.7	4.0	29.1	2.7
Ann	57.9	26.7	42.3	99	Jul 1988	22	66.0	Aug 1988	-29+	Feb 1989	7	20.1	Dec 1971	8300	38	.0	2.0	237.1	14.0	231.8	7.6

+ 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: 1968-2000

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

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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	Median	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	.00	.00	#+	1997	2	.00	0	.00	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Feb	.00	.00	.00+	1977	28	.00	0	.00	0	2.9	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Mar	.00	.00	#+	1995	23	.00	0	.00	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Apr	.00	.00	#+	1958	3	.00	0	.00+	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
May	.00	.00	#+	1996	16	.00	0	.00	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Jun	.00	.00	#+	1936	6	.00	0	.00+	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Jul	.00	.00	.00+	1968	17	.00	0	.00+	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Aug	.00	.00	#+	1991	15	.00	0	.00+	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Sep	.00	.00	#+	1982	16	.00	0	.00	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Oct	.00	.00	#+	1933	29	.00	0	.00+	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Nov	.00	.00	.00+	1968	30	.00	0	.00	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Dec	.00	.00	#+	1964	23	.00	0	.00	0	3.0	1.0	1.0	1.0	**	**	**	**	**	**	**	**	**	**	**
Ann	.00+	.00+	.00+	Feb 1977	28	#	0	9.99+	0	35.9	12.0	12.0	12.0	**	**	**	**	**	**	**	**	**	**	**

+ 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: 1968-2000

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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	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Mar	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Apr	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
May	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Jun	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99+	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Jul	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Aug	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Sep	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99+	-99	-99	-99+	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Oct	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9+	-99	-99	-99	-99	-99+	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Nov	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Dec	-9.9	-9.9	-99	-99	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9
Ann	-9.9	-9.9	N/A	N/A	-9.9	-99	-99	-9.9	-99	-99	-99	-99	-99	-99	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9	-9.9

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-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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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	8/04	7/31	7/27	7/25	7/22	7/19	7/17	7/13	7/09
32	7/30	7/24	7/20	7/17	7/13	7/10	7/06	7/02	6/27
28	7/05	6/28	6/23	6/19	6/15	6/11	6/07	6/02	5/27
24	6/11	6/03	5/28	5/22	5/17	5/12	5/07	5/01	4/22
20	5/11	5/05	4/30	4/27	4/23	4/20	4/16	4/12	4/06
16	5/06	4/27	4/20	4/14	4/09	4/04	3/29	3/22	3/13
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	7/29	8/01	8/04	8/06	8/09	8/11	8/13	8/16	8/20
32	8/01	8/08	8/13	8/17	8/20	8/24	8/28	9/02	9/09
28	8/18	8/27	9/02	9/07	9/12	9/17	9/22	9/28	10/07
24	9/13	9/20	9/24	9/29	10/03	10/06	10/11	10/16	10/22
20	10/04	10/10	10/14	10/18	10/21	10/25	10/28	11/02	11/07
16	10/25	10/29	11/01	11/04	11/06	11/08	11/11	11/13	11/17
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	37	30	25	21	17	13	9	4	0
32	70	59	51	44	37	31	24	16	5
28	123	111	102	95	88	81	74	65	53
24	172	160	151	144	138	131	124	115	103
20	205	197	190	185	180	175	170	164	156
16	238	229	222	216	210	205	199	192	182

* 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	1146	989	960	764	574	342	192	220	387	656	922	1148	8300
60	991	849	805	614	420	203	83	116	252	502	772	993	6600
57	898	765	712	526	334	132	39	70	182	412	682	900	5652
55	836	709	650	470	278	94	20	46	142	354	622	838	5059
50	681	569	498	334	160	30	2	13	65	221	474	683	3730
32	182	128	89	37	3	0	0	0	0	7	77	182	705

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	59	63	152	263	452	648	843	825	606	373	145	57	4486
55	0	0	0	6	14	52	150	158	58	7	0	0	445
57	0	0	0	2	8	30	107	120	38	4	0	0	309
60	0	0	0	0	1	11	58	73	18	1	0	0	162
65	0	0	0	0	0	0	12	22	4	0	0	0	38
70	0	0	0	0	0	0	1	5	0	0	0	0	6

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	0	0	23	84	236	430	627	617	423	188	31	2	0	0	23	107	343	773	1400	2017	2440	2628	2659	2661
45	0	0	1	28	124	292	472	462	279	83	5	0	0	0	1	29	153	445	917	1379	1658	1741	1746	1746
50	0	0	0	2	46	157	318	308	152	22	0	0	0	0	0	2	48	205	523	831	983	1005	1005	1005
55	0	0	0	0	9	64	173	171	58	2	0	0	0	0	0	0	9	73	246	417	475	477	477	477
60	0	0	0	0	0	16	65	65	9	0	0	0	0	0	0	0	0	16	81	146	155	155	155	155
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	14	33	99	198	326	457	457	346	207	60	8	0	14	47	146	344	670	1127	1584	1930	2137	2197	2205

(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/normal/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 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/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