

Climatology of the United States

No. 20

1971-2000

Station: MARKLEY COVE, CA

COOP ID: 045360

Climate Division: CA 2

NWS Call Sign:

Elevation: 480 Feet

Lat: 38° 30N

Lon: 122° 08W

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	54.8	35.9	45.4	74+	1996	2	49.5	1995	20	1991	1	41.3	1972	608	0	.0	.0	25.6	.0	10.9	.0
Feb	59.6	38.2	48.9	81	1977	15	53.1	1997	19+	1989	8	44.4	1989	452	0	.0	.0	26.8	.1	5.2	.0
Mar	63.8	40.5	52.2	86	1988	27	56.9	1997	27+	1976	6	47.8	1973	402	3	.0	.0	30.4	.0	1.6	.0
Apr	70.1	43.0	56.6	92+	1989	10	61.8	1992	30	1975	15	49.0	1975	272	18	.0	.4	29.9	.0	.3	.0
May	78.2	48.2	63.2	104	1984	29	69.7	1992	34+	1988	1	56.5	1998	132	75	.2	4.7	31.0	.0	.0	.0
Jun	86.4	53.6	70.0	106+	2001	1	76.3	1981	39+	1988	8	64.4	1980	24	174	2.7	11.8	30.0	.0	.0	.0
Jul	92.8	57.1	75.0	113+	1991	4	79.3	1988	45	1975	1	70.7	1987	1	310	6.2	21.5	31.0	.0	.0	.0
Aug	92.1	56.5	74.3	111+	1996	12	77.5	1996	47+	1976	16	69.5	1976	0	290	5.4	19.6	31.0	.0	.0	.0
Sep	87.5	54.1	70.8	110	1988	5	74.4	1991	42	1986	28	65.3	1986	14	186	1.8	14.0	30.0	.0	.0	.0
Oct	77.8	48.4	63.1	104	2001	3	68.0	1991	35+	1989	31	59.6	1984	113	54	.1	3.7	31.0	.0	.0	.0
Nov	63.4	41.1	52.3	85	1997	2	57.8	1995	26+	1993	25	46.9	1994	383	1	.0	.0	29.5	.0	2.1	.0
Dec	55.7	36.0	45.9	76+	1999	21	50.6	1995	13+	1990	23	40.6	1990	595	0	.0	.0	26.2	.0	9.9	.0
Ann	73.5	46.1	59.8	113+	1991	4	79.3	1988	13+	1990	23	40.6	1990	2996	1111	16.4	75.7	352.4	.1	30.0	.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

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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	5.85	5.18	4.92	1995	10	21.33	1995	.33	1991	11.1	7.8	3.5	2.0	.33	.67	1.38	2.16	3.07	4.12	5.41	7.06	9.38	13.32	17.25	
Feb	5.83	4.40	4.08	1998	3	19.93	1986	.03	1971	10.0	7.3	3.9	1.9	.20	.46	1.08	1.82	2.72	3.80	5.16	6.94	9.48	13.90	18.37	
Mar	4.68	3.02	4.13	1995	9	15.13	1995	.19	1988	10.6	7.3	3.0	1.2	.32	.60	1.19	1.83	2.55	3.39	4.39	5.67	7.45	10.47	13.45	
Apr	1.42	1.18	2.64	1982	11	6.31	1982	.00	1985	5.6	3.2	.9	.2	.03	.10	.28	.47	.70	.97	1.30	1.72	2.32	3.34	4.37	
May	.78	.31	2.12	1996	16	4.81	1998	.00+	1985	3.7	1.9	.5	.1	.00	.00	.02	.10	.23	.39	.61	.90	1.33	2.09	2.88	
Jun	.13	.05	.69	1993	5	.84	1993	.00+	1998	1.0	.5	.1	.0	.00	.00	.00	.00	.00	.04	.09	.15	.23	.38	.52	
Jul	.03	.00	.34	1974	8	.60	1974	.00+	2000	.2	.1	.0	.0	**	**	**	**	**	**	**	**	**	**	**	
Aug	.07	.00	.66	1997	20	.66	1997	.00+	2000	.4	.2	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.02	.20	.44	
Sep	.34	.05	1.55	1989	17	2.42	1989	.00+	1996	1.7	.8	.2	.1	.00	.00	.00	.00	.01	.07	.18	.34	.59	1.05	1.53	
Oct	1.34	.88	2.02	1979	25	3.33+	1981	.00+	1995	3.7	2.2	1.1	.3	.00	.07	.25	.45	.67	.93	1.24	1.64	2.19	3.13	4.06	
Nov	3.22	2.57	3.66	1970	28	8.93	1981	.08+	1995	8.5	5.3	2.2	.8	.09	.21	.52	.92	1.40	2.01	2.77	3.79	5.26	7.85	10.48	
Dec	4.25	3.44	5.12	1995	12	12.62	1996	.00	1989	9.5	5.9	2.8	1.3	.21	.60	1.24	1.86	2.53	3.27	4.15	5.23	6.71	9.16	11.54	
Ann	27.94	26.65	5.12	Dec 1995	12	21.33	Jan 1995	.00+	Aug 2000	66.0	42.5	18.2	7.9	11.37	13.94	17.55	20.53	23.34	26.19	29.26	32.81	37.30	44.16	50.41	

+ 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

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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	.0	.0	#	0	.4	1974	4	.4	1974	#	1974	4	#	1974	@	.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	.0
Mar	#	.0	0	0	#	1976	2	#	1976	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	.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	.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	.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	.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	.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	.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	.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	.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	.0
Ann	#	.0	N/A	N/A	.4	Jan 1974	4	.4	Jan 1974	#	Jan 1974	4	#	Jan 1974	@	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ 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	5/05	4/26	4/20	4/14	4/09	4/04	3/29	3/23	3/14
32	4/11	3/31	3/23	3/17	3/10	3/04	2/25	2/17	2/07
28	2/22	2/12	2/04	1/29	1/23	1/16	1/10	1/02	12/20
24	1/27	1/11	12/20	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	11/01	11/05	11/08	11/11	11/13	11/15	11/18	11/21	11/25
32	11/08	11/15	11/20	11/25	11/29	12/03	12/07	12/12	12/19
28	11/22	11/30	12/06	12/11	12/16	12/21	12/26	1/03	1/16
24	12/24	1/13	2/09	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	244	235	228	223	217	212	206	199	190
32	303	289	279	271	263	254	246	236	222
28	>365	357	342	332	324	316	308	299	286
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

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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	608	452	402	272	132	24	1	0	14	113	383	595	2996
60	453	313	260	160	59	5	0	0	1	41	243	440	1975
57	360	233	185	108	31	1	0	0	0	18	170	350	1456
55	302	183	143	79	19	0	0	0	0	9	129	293	1157
50	165	84	63	28	5	0	0	0	0	1	53	165	564
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	415	472	623	736	966	1140	1332	1313	1163	964	608	429	10161
55	4	11	54	125	273	450	619	600	473	260	46	9	2924
57	0	5	33	94	223	391	557	538	413	207	28	4	2493
60	0	1	15	55	158	305	464	445	324	137	11	0	1915
65	0	0	3	18	75	174	310	290	186	54	1	0	1111
70	0	0	0	4	25	78	168	148	82	13	0	0	518

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	187	277	393	517	737	919	1097	1066	924	716	376	200	187	464	857	1374	2111	3030	4127	5193	6117	6833	7209	7409
45	77	141	239	367	582	769	942	911	774	561	229	82	77	218	457	824	1406	2175	3117	4028	4802	5363	5592	5674
50	19	52	117	226	427	619	787	756	624	407	110	18	19	71	188	414	841	1460	2247	3003	3627	4034	4144	4162
55	0	10	38	112	279	469	632	601	474	258	35	0	0	10	48	160	439	908	1540	2141	2615	2873	2908	2908
60	0	0	0	38	156	322	477	446	327	132	6	0	0	0	0	38	194	516	993	1439	1766	1898	1904	1904
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	96	153	228	316	448	563	668	646	564	440	217	109	96	249	477	793	1241	1804	2472	3118	3682	4122	4339	4448

(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