

Climatology of the United States

No. 20

1971-2000

Station: YREKA SISKIYOU CO, CA

COOP ID: 049866

Climate Division: CA 1

NWS Call Sign:

Elevation: 2,625 Feet Lat: 41° 42N

Lon: 122° 38W

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	45.1	23.1	34.1	64	1986	13	41.1	1986	-9	1950	31	25.8	1977	959	0	.0	.0	8.3	1.2	26.9	.0
Feb	51.3	26.0	38.7	73	1992	26	44.5	1995	-11	1950	2	32.2	1989	739	0	.0	.0	15.8	.4	23.2	.1
Mar	56.9	29.2	43.1	80	1960	25	47.9	1986	0	1955	1	38.6	1977	681	0	.0	.0	25.1	.0	20.7	.0
Apr	63.5	33.5	48.5	90	1987	28	55.2	1990	18	1955	27	41.1	1975	496	2	.0	@	27.9	.0	11.6	.0
May	72.6	39.4	56.0	103	1983	29	63.3	1992	24+	1988	30	49.2	1977	293	14	.1	2.0	30.8	.0	3.7	.0
Jun	81.5	46.0	63.8	106	1992	23	69.4	1986	28	1952	12	58.8	1980	114	76	.3	6.9	29.9	.0	.2	.0
Jul	90.5	51.1	70.8	107+	1994	22	75.2	1996	34	1981	7	63.8	1993	25	204	3.7	18.1	31.0	.0	.0	.0
Aug	90.2	50.1	70.2	110	1981	8	74.4	1986	33	1993	26	63.7	1976	22	181	3.4	19.0	31.0	.0	.0	.0
Sep	82.3	43.6	63.0	107	1955	3	67.9	1991	27	1950	30	56.7	1978	129	68	.4	7.2	30.0	.0	.5	.0
Oct	69.9	35.1	52.5	93+	1988	1	58.9	1987	18	1971	29	47.5	1984	393	5	.0	.8	30.2	.0	8.6	.0
Nov	52.5	28.3	40.4	79	1966	1	47.4	1995	8	1955	15	34.0	1994	737	0	.0	.0	18.5	.1	21.7	.0
Dec	44.5	23.5	34.0	65	1980	27	40.5	1995	-11	1972	9	27.2	1972	962	0	.0	.0	7.1	1.5	26.4	.3
Ann	66.7	35.7	51.3	110	Aug 1981	8	75.2	Jul 1996	-11+	Dec 1972	9	25.8	Jan 1977	5550	550	7.9	54.0	285.6	3.2	143.5	.4

+ 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: 1948-2001

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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	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	3.19	2.73	3.03	1974	16	7.43	1996	.20	1984	11.9	6.4	1.9	.8	.39	.64	1.09	1.53	2.01	2.53	3.14	3.90	4.93	6.62	8.26	
Feb	2.27	2.02	2.12	1960	10	5.85	1999	.02	1988	10.5	5.6	1.5	.2	.31	.49	.82	1.13	1.47	1.83	2.25	2.77	3.47	4.62	5.73	
Mar	2.04	1.49	2.09	1975	18	5.79	1975	.15	1994	11.3	4.8	1.2	.3	.22	.37	.66	.94	1.25	1.59	1.99	2.50	3.18	4.31	5.42	
Apr	1.20	1.16	1.08	2000	14	3.42	2000	.07	1985	8.5	3.4	.4	.1	.18	.28	.46	.62	.79	.98	1.20	1.47	1.82	2.40	2.96	
May	1.15	.78	1.50	1989	9	4.14	1998	.03	1982	7.1	3.3	.6	.1	.06	.12	.25	.40	.58	.79	1.04	1.38	1.85	2.65	3.46	
Jun	.95	.57	1.93	1998	8	4.35	1982	.00+	1994	4.7	2.2	.5	.2	.00	.02	.11	.23	.39	.57	.81	1.13	1.58	2.38	3.20	
Jul	.49	.29	1.15	1970	5	2.08	1995	.00+	1989	3.3	1.3	.2	@	.00	.00	.02	.07	.14	.23	.36	.55	.83	1.34	1.88	
Aug	.54	.18	1.31	1951	7	3.23	1976	.00+	1998	3.0	1.5	.3	.1	.00	.00	.00	.04	.12	.24	.39	.60	.92	1.50	2.10	
Sep	.75	.53	2.15	1991	7	3.19	1978	.00+	1999	3.4	1.7	.5	.1	.00	.00	.08	.19	.32	.47	.66	.90	1.25	1.86	2.46	
Oct	1.11	.83	2.73	1950	28	3.17	1979	.00	1978	5.8	2.9	.6	.2	.03	.10	.25	.41	.59	.79	1.04	1.36	1.80	2.55	3.29	
Nov	2.80	2.08	2.38	1988	23	8.20	1984	.36	2000	11.3	5.9	1.8	.5	.25	.45	.83	1.22	1.64	2.12	2.70	3.41	4.40	6.05	7.66	
Dec	3.17	1.92	4.57	1964	23	9.67	1996	.27	1976	12.1	6.6	1.7	.5	.27	.48	.91	1.34	1.83	2.38	3.04	3.86	5.00	6.91	8.78	
Ann	19.66	18.31	4.57	Dec 1964	23	9.67	Dec 1996	.00+	Sep 1999	92.9	45.6	11.2	3.1	11.41	12.88	14.84	16.37	17.76	19.13	20.57	22.19	24.19	27.14	29.76	

+ 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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Lon: 122° 38W

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	5.0	2.7	#	0	8.0	1993	7	18.9	1993	14	1996	27	3+	1996	2.8	1.7	.5	.1	.0	4.5	1.8	.5	@
Feb	2.3	1.1	#	0	10.0	1990	16	14.6	1990	10+	1990	18	2	1990	1.4	.7	.2	.1	@	1.2	.6	.3	.1
Mar	2.3	.1	#	0	12.6	1975	22	17.1	1975	14	1975	22	1	1975	.9	.6	.2	.1	.1	.5	.2	.1	@
Apr	.3	.0	#	0	3.2	1975	15	4.1	1975	2	1995	8	#	1995	.4	.1	@	.0	.0	.1	.0	.0	.0
May	.1	.0	#	0	1.3	1998	20	1.3	1998	0	0	0	#	2000	.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	.1	.0	0	0	1.5	1984	17	1.5	1984	#	1975	27	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.5	.0	#	0	14.9	1977	21	15.3	1977	15	1977	21	1	1977	.9	.3	.1	@	@	.6	.1	.1	@
Dec	3.6	1.4	#	0	10.0	1983	24	16.5	1988	10+	1988	24	2+	1988	1.8	1.2	.4	.1	@	2.5	1.4	1.0	.1
Ann	15.2	5.3	N/A	N/A	14.9	Nov 1977	21	18.9	Jan 1993	15	Nov 1977	21	3+	Jan 1996	8.3	4.6	1.4	.4	.1	9.4	4.1	2.0	.2

+ 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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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	6/30	6/24	6/19	6/15	6/12	6/08	6/04	5/30	5/24
32	6/07	6/01	5/28	5/25	5/22	5/18	5/15	5/11	5/06
28	5/17	5/11	5/06	5/02	4/28	4/24	4/20	4/15	4/08
24	4/26	4/17	4/10	4/04	3/29	3/23	3/17	3/10	3/01
20	3/26	3/13	3/04	2/24	2/16	2/09	2/01	1/22	1/09
16	2/28	2/16	2/07	1/31	1/23	1/16	1/08	12/28	12/08
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	8/31	9/07	9/12	9/17	9/21	9/25	9/29	10/04	10/12
32	9/23	9/27	9/30	10/03	10/06	10/08	10/11	10/14	10/19
28	10/11	10/15	10/19	10/21	10/24	10/27	10/30	11/02	11/06
24	10/27	11/01	11/05	11/08	11/11	11/14	11/17	11/20	11/25
20	11/02	11/11	11/17	11/23	11/28	12/03	12/08	12/14	12/23
16	11/17	11/27	12/04	12/11	12/17	12/23	12/31	1/08	1/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	129	119	112	106	101	95	89	82	72
32	161	153	147	141	136	131	126	120	111
28	202	194	188	183	179	174	169	163	155
24	259	247	239	232	226	219	213	204	193
20	332	315	303	293	284	274	264	252	235
16	>365	>365	353	338	327	317	307	296	281

* 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	959	739	681	496	293	114	25	22	129	393	737	962	5550
60	804	599	526	356	171	47	5	3	58	254	587	807	4217
57	711	515	435	277	116	23	1	1	31	183	498	714	3505
55	649	459	375	230	85	14	0	0	19	142	439	652	3064
50	495	323	236	133	31	2	0	0	4	64	299	497	2084
32	80	20	6	2	0	0	0	0	0	0	17	71	196

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	143	205	348	497	744	951	1202	1182	929	635	269	133	7238
55	0	0	4	35	116	275	489	469	257	64	2	0	1711
57	0	0	2	23	85	224	429	407	209	43	0	0	1422
60	0	0	0	11	47	158	339	317	146	21	0	0	1039
65	0	0	0	2	14	76	204	181	68	5	0	0	550
70	0	0	0	0	2	26	103	82	22	0	0	0	235

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	23	61	152	287	518	721	972	956	702	413	97	17	23	84	236	523	1041	1762	2734	3690	4392	4805	4902	4919
45	0	14	59	164	366	571	817	801	552	270	29	0	0	14	73	237	603	1174	1991	2792	3344	3614	3643	3643
50	0	0	14	81	233	424	662	646	403	149	7	0	0	0	14	95	328	752	1414	2060	2463	2612	2619	2619
55	0	0	0	34	129	283	507	492	268	64	0	0	0	0	0	34	163	446	953	1445	1713	1777	1777	1777
60	0	0	0	5	60	167	355	338	147	24	0	0	0	0	0	5	65	232	587	925	1072	1096	1096	1096
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	16	60	126	214	357	460	593	579	462	315	78	10	16	76	202	416	773	1233	1826	2405	2867	3182	3260	3270

(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:

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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