

Climatology of the United States

No. 20

1971-2000

Station: UKIAH, CA

COOP ID: 049122

Climate Division: CA 1

NWS Call Sign:

Elevation: 633 Feet

Lat: 39°09N

Lon: 123°13W

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	56.2	37.0	46.6	82	1984	27	49.9	1986	14	1949	11	43.1	1982	571	0	.0	.0	28.2	.0	9.8	.0
Feb	59.7	39.5	49.6	86	1932	26	54.0	1991	18+	1989	7	45.2	1989	431	0	.0	.0	26.5	.1	5.1	.0
Mar	63.6	40.8	52.2	93	1914	17	57.0	1986	22	1923	4	47.9	1991	398	1	.0	.0	30.3	.0	2.5	.0
Apr	69.2	42.6	55.9	98	1926	25	61.2	1989	24	1924	5	50.4	1975	282	10	.0	.5	30.0	.0	.5	.0
May	75.8	47.0	61.4	105+	1984	28	68.0	1992	28	1919	31	54.8	1977	157	45	.3	3.6	31.0	.0	.1	.0
Jun	83.4	51.9	67.7	114	1961	14	72.2	1985	35	1920	1	61.9	1980	41	120	1.7	9.2	30.0	.0	.0	.0
Jul	90.6	55.3	73.0	114	1972	14	77.1	1984	40+	1926	23	68.5	1987	7	253	5.3	18.1	31.0	.0	.0	.0
Aug	90.2	54.7	72.5	114	1908	7	75.2	1986	38	1918	12	68.8	1976	1	232	4.6	17.8	31.0	.0	.0	.0
Sep	86.1	51.7	68.9	115	1955	3	73.6	1991	30	1926	30	64.3	1986	24	140	2.3	12.8	30.0	.0	.0	.0
Oct	76.3	46.1	61.2	105+	1980	2	66.6	1991	24+	1971	29	56.7	1984	159	41	.2	3.6	31.0	.0	.4	.0
Nov	61.8	40.4	51.1	92+	1967	1	56.6	1976	19	1919	27	46.0	1994	419	1	.0	.0	29.4	.0	4.3	.0
Dec	55.6	36.2	45.9	80	1958	3	49.8	1995	13+	1972	9	40.6	1990	593	0	.0	.0	26.9	.0	11.5	.0
Ann	72.4	45.3	58.8	115	Sep 1955	3	77.1	Jul 1984	13+	Dec 1972	9	40.6	Dec 1990	3083	843	14.4	65.6	355.3	.1	34.2	.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: 1906-2001

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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	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	7.96	7.45	5.66	1974	16	24.76	1995	.50	1976	12.8	9.6	5.3	2.5	.82	1.41	2.50	3.61	4.81	6.15	7.74	9.71	12.41	16.88	21.25	
Feb	7.05	5.33	4.65	1958	24	22.33	1998	.34	1988	12.3	9.3	5.2	2.5	.64	1.13	2.08	3.06	4.13	5.35	6.79	8.59	11.08	15.23	19.29	
Mar	5.92	4.40	5.74	1995	9	18.64	1995	.16	1988	12.1	8.6	4.4	1.8	.57	.99	1.80	2.62	3.52	4.53	5.72	7.22	9.27	12.68	16.01	
Apr	2.19	1.88	2.30	1983	23	6.99	1983	.14	1977	7.2	4.9	1.6	.4	.22	.38	.68	.98	1.31	1.69	2.12	2.67	3.42	4.67	5.89	
May	1.20	.54	2.11	1990	27	6.42	1998	.00+	1985	4.7	2.6	.7	.2	.00	.00	.11	.26	.46	.70	1.01	1.42	2.01	3.05	4.11	
Jun	.28	.04	1.30	1967	2	1.39	1992	.00+	1999	1.4	.7	.1	.1	.00	.00	.00	.00	.00	.05	.13	.25	.46	.86	1.29	
Jul	.05	.00	.73	1974	8	.84	1974	.00+	2000	.3	.1	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.01	.15	.36	
Aug	.14	.00	.79	1997	20	1.16	1976	.00+	2000	.8	.4	.1	.0	.00	.00	.00	.00	.00	.00	.00	.06	.19	.48	.81	
Sep	.67	.16	2.25	1957	27	3.02	1977	.00+	1998	2.2	1.2	.4	.2	.00	.00	.00	.00	.06	.22	.43	.73	1.18	1.96	2.77	
Oct	2.07	1.75	3.19	1962	12	5.75	1981	.00+	1995	5.3	3.6	1.4	.5	.00	.25	.64	.97	1.31	1.67	2.09	2.58	3.26	4.37	5.43	
Nov	5.40	4.30	3.85	1920	18	16.33	1973	.31	1995	11.1	7.6	3.9	1.6	.37	.70	1.38	2.12	2.95	3.91	5.07	6.54	8.59	12.06	15.49	
Dec	5.97	4.99	6.18	1964	22	16.92	1996	.00	1989	11.9	8.4	4.0	1.7	.35	.92	1.84	2.72	3.65	4.68	5.88	7.36	9.37	12.68	15.89	
Ann	38.90	36.84	6.18	Dec 1964	22	24.76	Jan 1995	.00+	Aug 2000	82.1	57.0	27.1	11.5	18.81	22.15	26.71	30.38	33.78	37.17	40.79	44.91	50.07	57.85	64.82	

+ 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: 1906-2001

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

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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	.5	1993	10	.5	1993	1	1993	10	#	1993	.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
Mar	.1	.0	0	0	1.5	1976	2	1.5	1976	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
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	.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	#	1990	19	#+	1990	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.5	Mar 1976	2	1.5	Mar 1976	1	Jan 1993	10	#	Jan 1993	.0	.0	.0	.0	.0	.0	.0	.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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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	5/11	5/03	4/28	4/24	4/20	4/16	4/12	4/07	3/30
32	4/17	4/07	3/30	3/24	3/18	3/12	3/06	2/27	2/16
28	3/10	2/25	2/16	2/09	2/01	1/25	1/17	1/07	12/23
24	1/29	1/18	1/09	12/31	12/18	0/00	0/00	0/00	0/00
20	12/14	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	10/25	10/28	10/30	11/02	11/04	11/06	11/09	11/13
32	10/29	11/04	11/09	11/13	11/16	11/20	11/24	11/28	12/05
28	11/07	11/18	11/26	12/03	12/10	12/17	12/24	1/02	1/16
24	12/03	12/17	12/29	1/11	2/02	0/00	0/00	0/00	0/00
20	1/16	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	219	211	205	200	195	190	185	179	171
32	282	268	258	250	242	235	226	216	203
28	>365	348	331	319	309	300	291	280	266
24	>365	>365	>365	>365	>365	>365	>365	346	325
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
65	571	431	398	282	157	41	7	1	24	159	419	593	3083
60	416	294	254	160	72	9	0	0	4	71	275	438	1993
57	323	216	178	105	38	2	0	0	1	38	197	346	1444
55	262	169	136	75	23	1	0	0	0	23	151	287	1127
50	124	77	56	23	5	0	0	0	0	4	65	153	507
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
32	452	493	626	718	911	1069	1269	1254	1106	905	572	430	9805
55	1	17	49	103	221	379	556	541	416	214	33	4	2534
57	0	9	29	73	174	321	494	479	357	167	19	1	2123
60	0	3	12	38	115	237	401	386	270	108	7	0	1577
65	0	0	1	10	45	120	253	232	140	41	1	0	843
70	0	0	0	1	12	43	127	98	50	9	0	0	340

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	237	304	396	494	684	856	1050	1027	888	677	354	218	237	541	937	1431	2115	2971	4021	5048	5936	6613	6967	7185
45	108	166	247	344	529	706	895	872	738	522	211	90	108	274	521	865	1394	2100	2995	3867	4605	5127	5338	5428
50	29	68	120	203	375	556	740	717	588	370	95	23	29	97	217	420	795	1351	2091	2808	3396	3766	3861	3884
55	0	18	38	97	234	409	585	562	438	226	28	0	0	18	56	153	387	796	1381	1943	2381	2607	2635	2635
60	0	0	0	35	119	263	430	407	288	112	3	0	0	0	0	35	154	417	847	1254	1542	1654	1657	1657
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	131	167	235	308	417	520	639	622	532	422	203	120	131	298	533	841	1258	1778	2417	3039	3571	3993	4196	4316

(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