U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: JESS VALLEY, CA **COOP ID: 044374**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 5,400 Feet** **Lat: 41˚16N** **Lon: 120˚18W**

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	18.2	29.6	64	1971	30	37.1	1981	-33	1962	22	21.4	1982	1099	0	.0	.0	6.1	4.0	28.7	1.2
Feb	43.5	20.7	32.1	68	1963	7	40.7	1991	-28	1990	19	24.7	1989	921	0	.0	.0	7.6	2.1	25.9	.9
Mar	47.3	23.4	35.4	76	1966	31	41.7	1978	-7	1971	1	29.4	1985	919	0	.0	.0	14.1	1.1	26.9	.1
Apr	54.2	27.0	40.6	81	1981	30	46.6	1990	5	1975	6	32.9	1975	733	0	.0	.0	20.8	.2	22.4	.0
May	62.8	32.9	47.9	89+	1986	29	55.1	1992	16+	1960	22	41.2	1977	532	0	.0	.0	28.1	.0	13.1	.0
Jun	72.2	40.2	56.2	95	1988	24	61.3	1977	21+	1982	6	51.2	1982	279	14	.0	.7	29.7	.0	2.9	.0
Jul	81.3	44.9	63.1	100	1960	18	67.4	1988	29+	1983	20	56.0	1983	125	68	.0	4.8	31.0	.0	.2	.0
Aug	80.8	44.3	62.6	110	1959	7	67.0	1971	27	1959	21	58.0	1976	127	50	.1	4.2	31.0	.0	.4	.0
Sep	73.8	37.9	55.9	95+	1998	3	61.1	1991	18	1950	30	46.0	1985	299	24	.0	.5	29.6	.0	4.9	.0
Oct	62.8	30.8	46.8	88	1996	9	54.3	1988	3	1971	29	38.0	1984	566	2	.0	.0	27.3	.3	16.1	.0
Nov	47.6	23.6	35.6	78	1976	4	44.6	1999	-5	1985	12	24.5	1985	882	0	.0	.0	13.2	1.8	25.1	.2
Dec	41.3	18.2	29.8	67	1957	9	37.2	1980	-28	1972	8	23.1	1992	1093	0	.0	.0	6.5	4.7	28.8	2.0
Ann	59.1	30.2	44.6	110	Aug 1959	7	67.4	Jul 1988	-33	Jan 1962	22	21.4	Jan 1982	7575	158	.1	10.2	245.0	14.2	195.4	4.4

\+ 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/normals/usnormals.html

(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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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.91	1.98	1.53	1993	10	4.69	1996	.40	1992
Feb	1.70	1.58	1.36	1986	17	4.16	1986	.21	1988
Mar	2.14	2.08	1.68	1986	8	4.25	1983	.99	1988
Apr	1.97	1.82	2.05	1995	29	4.89	1978	.41	1980
May	2.37	1.69	2.05	1987	26	6.80	1998	.24	1978
Jun	1.48	1.13	2.83	1993	6	3.84	1993	.00	1986
Jul	.52	.36	1.43	1960	30	2.25	1987	.00+	1999
Aug	.64	.34	1.23	1974	5	2.61	1976	.00+	1995
Sep	.96	.81	1.80	1983	30	2.71	1971	.00+	1995
Oct	1.30	1.14	2.63	1962	13	2.80	2000	.00	1978
Nov	2.08	1.83	1.65	1957	14	5.32	1994	.10	1995
Dec	1.99	1.57	1.30	1983	14	7.04	1983	.15	1976
Ann	19.06	18.15	2.83	Jun 1993	6	7.04	Dec 1983	.00+	Jul 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.1	5.8	.8	.1
Feb	9.2	5.6	.5	.1
Mar	10.8	7.0	.8	.1
Apr	8.7	5.8	.8	.2
May	7.4	5.8	1.3	.4
Jun	4.9	3.7	.9	.1
Jul	2.3	1.6	.2	.0
Aug	2.7	1.7	.3	.1
Sep	3.6	2.5	.5	.2
Oct	5.5	3.8	.6	.1
Nov	9.5	7.0	1.0	@
Dec	9.4	6.5	.7	.1
Ann	83.1	56.8	8.4	1.5

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.51	.69	.96	1.21	1.44	1.69	1.97	2.30	2.73	3.40	4.03
Feb	.46	.62	.87	1.08	1.29	1.51	1.76	2.05	2.42	3.02	3.57
Mar	1.08	1.26	1.50	1.70	1.87	2.05	2.24	2.45	2.72	3.12	3.48
Apr	.54	.73	1.01	1.26	1.50	1.76	2.04	2.38	2.81	3.49	4.13
May	.28	.47	.80	1.13	1.48	1.87	2.33	2.90	3.67	4.93	6.16
Jun	.07	.20	.42	.64	.87	1.14	1.44	1.83	2.35	3.21	4.06
Jul	.00	.00	.06	.14	.24	.35	.48	.65	.88	1.27	1.67
Aug	.00	.00	.02	.10	.21	.35	.52	.76	1.10	1.69	2.30
Sep	.00	.00	.00	.25	.45	.67	.92	1.23	1.64	2.34	3.00
Oct	.09	.22	.42	.61	.82	1.04	1.29	1.61	2.03	2.73	3.41
Nov	.41	.60	.91	1.19	1.47	1.78	2.12	2.53	3.08	3.96	4.79
Dec	.27	.43	.71	.99	1.28	1.60	1.97	2.43	3.04	4.05	5.03
Ann	12.49	13.72	15.32	16.55	17.65	18.72	19.84	21.08	22.59	24.81	26.74

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	10.4	8.3	4	3	10.0	1997	23	32.0	1989	27	1989	10	16	1993	5.0	4.5	1.6	.5	@	13.5	9.6	6.6	1.9
Feb	11.3	9.8	3	1	9.0	1975	2	34.5	1975	22	1975	5	13	1985	5.1	4.7	1.6	.4	.0	9.6	6.0	4.2	1.8
Mar	13.4	13.5	1	1	13.0	1999	31	30.0	1974	17	1974	7	4	1976	4.1	3.6	1.7	.5	.2	6.2	4.1	2.0	.6
Apr	8.0	7.0	#	#	8.0	1973	14	23.0	1971	9	1995	29	1	1995	2.8	2.6	1.3	.6	.0	1.0	.3	.1	.0
May	4.3	3.5	#	0	14.0	1971	31	20.0	1971	10	1995	5	1	1995	1.3	1.2	.6	.2	@	.1	.1	@	.0
Jun	.4	.0	#	0	3.0	1971	1	3.0+	1990	7	1971	1	#+	1991	.2	.2	.1	.0	.0	.1	.1	@	.0
Jul	.1	.0	0	0	2.0	1987	17	2.0	1987	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	.7	.0	#	0	12.0	1971	30	13.0	1971	8	1971	30	#+	1986	.2	.2	@	@	@	@	@	@	.0
Oct	2.5	.0	#	0	8.0	2000	10	13.0	1971	8	1971	1	1	1984	.9	.9	.2	.1	.0	.7	.3	.2	.0
Nov	9.5	7.3	1	#	8.0	1983	23	30.0	1985	12	1985	29	4	1985	4.2	3.6	1.4	.4	.0	5.0	3.3	2.0	.2
Dec	12.9	9.5	2	1	9.5	1983	23	47.5	1983	18	1988	31	7	1971	4.4	4.1	1.6	.7	.0	11.4	7.7	4.6	.4
Ann	73.5	58.9	N/A	N/A	14.0	May 1971	31	47.5	Dec 1983	27	Jan 1989	10	16	Jan 1993	28.2	25.6	10.1	3.4	.2	47.6	31.5	19.7	4.9

+ 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	7/21	7/16	7/13	7/09	7/07	7/04	7/01	6/27	6/22
32	7/06	6/30	6/25	6/21	6/18	6/14	6/10	6/06	5/30
28	6/17	6/11	6/07	6/03	5/31	5/27	5/24	5/19	5/13
24	5/29	5/23	5/19	5/16	5/12	5/09	5/05	5/01	4/25
20	5/12	5/04	4/29	4/24	4/19	4/14	4/10	4/04	3/27
16	4/25	4/16	4/09	4/03	3/29	3/24	3/18	3/11	3/02

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	8/07	8/13	8/17	8/21	8/25	8/28	9/01	9/06	9/12
32	8/21	8/28	9/01	9/06	9/10	9/13	9/18	9/23	9/29
28	9/11	9/17	9/21	9/24	9/28	10/01	10/04	10/08	10/14
24	9/22	9/28	10/03	10/07	10/11	10/15	10/19	10/24	10/31
20	10/09	10/16	10/21	10/25	10/29	11/02	11/06	11/12	11/19
16	10/22	10/29	11/03	11/08	11/12	11/16	11/21	11/26	12/03

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	72	64	58	53	48	44	39	33	24
32	112	102	95	89	83	78	71	64	55
28	145	136	130	124	119	114	108	102	93
24	180	170	163	157	151	146	140	132	123
20	225	213	205	199	192	186	179	171	160
16	261	250	241	234	227	220	213	205	193

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1099	921	919	733	532	279	125	127	299	566	882	1093	7575
60	944	781	764	583	383	163	52	50	189	421	732	938	6000
57	851	697	671	496	299	108	25	23	137	339	645	845	5136
55	789	641	609	440	247	79	15	13	107	289	588	783	4600
50	634	501	460	306	141	28	2	2	49	182	451	630	3386
32	165	105	73	29	2	0	0	0	0	9	101	179	663

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	90	107	177	286	493	725	965	946	716	469	208	109	5291
55	0	0	0	8	25	114	267	246	133	36	6	0	835
57	0	0	0	4	15	83	215	195	103	24	3	0	642
60	0	0	0	0	6	47	149	128	65	13	0	0	408
65	0	0	0	0	0	14	68	50	24	2	0	0	158
70	0	0	0	0	0	3	20	12	8	0	0	0	43

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	8	24	46	123	301	520	762	734	523	279	59	8	8	32	78	201	502	1022	1784	2518	3041	3320	3379	3387
45	0	2	10	51	177	373	607	579	379	161	18	0	0	2	12	63	240	613	1220	1799	2178	2339	2357	2357
50	0	0	0	14	87	238	453	427	249	77	3	0	0	0	0	14	101	339	792	1219	1468	1545	1548	1548
55	0	0	0	0	33	125	304	279	133	29	0	0	0	0	0	0	33	158	462	741	874	903	903	903
60	0	0	0	0	7	49	169	146	53	3	0	0	0	0	0	0	7	56	225	371	424	427	427	427
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	11	27	50	115	231	361	508	492	379	235	63	17	11	38	88	203	434	795	1303	1795	2174	2409	2472	2489

(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

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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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