

Climatology of the United States

No. 20

1971-2000

Station: NEWMAN, CA

COOP ID: 046168

Climate Division: CA 5

NWS Call Sign:

Elevation: 90 Feet

Lat: 37° 19N

Lon: 121° 01W

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	54.2	37.0	45.6	76	1981	19	52.0	1995	18	1963	13	39.5	1972	601	0	.0	.0	24.6	.0	9.0	.0
Feb	61.8	40.0	50.9	80	1977	18	54.9	1992	20	1989	7	46.0	1971	395	0	.0	.0	27.5	@	3.5	.0
Mar	67.0	42.6	54.8	90	1988	26	59.1	1997	22	1971	2	50.3	1973	323	7	.0	@	31.0	.0	.7	.0
Apr	74.5	45.1	59.8	99	1985	14	65.6	1987	29	1997	1	53.1	1975	195	39	.0	1.5	30.0	.0	.2	.0
May	82.7	50.8	66.8	110	1951	26	73.2	1992	35	1964	4	59.7	1977	79	133	.9	8.3	31.0	.0	.0	.0
Jun	90.5	55.9	73.2	112+	1961	21	78.1	1981	40+	1971	1	68.2	1980	6	251	5.3	18.6	30.0	.0	.0	.0
Jul	94.6	59.6	77.1	115	1950	3	82.1	1996	44	1995	13	72.2	1987	0	376	9.5	26.9	31.0	.0	.0	.0
Aug	92.6	58.9	75.8	110	1983	7	80.5	1998	45+	1973	23	71.4	1976	0	333	5.8	24.4	31.0	.0	.0	.0
Sep	88.6	55.9	72.3	110	1950	2	75.6	1991	40	1971	27	67.6	1986	8	225	2.1	16.5	30.0	.0	.0	.0
Oct	79.8	49.2	64.5	102	1987	5	69.0	1991	27	1971	30	59.7	1971	97	81	.2	4.3	31.0	.0	.1	.0
Nov	65.1	40.9	53.0	89	1949	2	59.5	1995	24	1952	26	48.7	1994	365	4	.0	.0	29.8	.0	3.0	.0
Dec	55.1	35.5	45.3	75	1958	4	51.0	1995	15	1990	23	40.7	1990	611	0	.0	.0	25.3	.0	11.1	.0
Ann	75.5	47.6	61.6	115	Jul 1950	3	82.1	Jul 1996	15	Dec 1990	23	39.5	Jan 1972	2680	1449	23.8	100.5	352.2	@	27.6	.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: 1948-2001

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

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: NEWMAN, CA

COOP ID: 046168

Climate Division: CA 5

NWS Call Sign:

Elevation: 90 Feet

Lat: 37°19N

Lon: 121°01W

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	2.55	1.84	4.10	1988	17	7.94	1995	.04	1991	9.1	5.6	1.5	.3	.17	.33	.65	1.00	1.39	1.85	2.39	3.09	4.06	5.70	7.33
Feb	2.18	1.98	2.03	1993	8	9.34	1998	.04	1997	7.9	5.3	1.3	.2	.10	.21	.46	.74	1.08	1.48	1.97	2.61	3.52	5.08	6.64
Mar	2.00	2.09	2.53	1995	10	6.14	1995	.00+	1988	7.7	5.1	1.0	.2	.00	.18	.51	.83	1.16	1.53	1.96	2.49	3.21	4.41	5.58
Apr	.63	.40	1.52	1952	8	2.20	1978	.00+	1992	3.5	1.9	.2	.1	.00	.00	.14	.24	.35	.48	.62	.80	1.03	1.42	1.80
May	.39	.10	1.70	1998	12	3.97	1998	.00+	1992	1.9	1.2	.2	.1	.00	.00	.00	.00	.01	.10	.23	.41	.68	1.18	1.69
Jun	.04	.00	.24	1988	25	.46	1988	.00+	1999	.7	.2	.0	.0	.00	.00	.00	.00	.00	.00	.01	.03	.07	.14	.22
Jul	.02	.00	.27	1974	9	.30	1974	.00+	2000	.2	.1	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Aug	.02	.00	.42	1975	18	.42	1975	.00+	2000	.1	.1	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Sep	.27	.02	1.35	1959	18	2.04	1983	.00+	1997	1.1	.6	.2	@	.00	.00	.00	.00	.00	.00	.04	.15	.38	.83	1.39
Oct	.61	.63	1.31	1973	7	2.07	2000	.00+	1999	2.6	1.6	.4	@	.00	.00	.00	.19	.32	.46	.61	.79	1.04	1.45	1.82
Nov	1.23	.94	2.30	1970	28	4.78	1972	.00+	1995	5.5	3.3	.7	.1	.00	.00	.13	.33	.55	.81	1.12	1.52	2.08	3.01	3.95
Dec	1.51	1.24	1.95	1974	3	4.56	1996	.00	1989	5.8	3.8	.9	.2	.03	.11	.29	.49	.73	1.02	1.37	1.82	2.46	3.55	4.64
Ann	11.45	10.10	4.10	Jan 1988	17	9.34	Feb 1998	.00+	Aug 2000	46.1	28.8	6.4	1.2	4.74	5.78	7.25	8.46	9.60	10.76	12.00	13.43	15.24	18.01	20.52

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Climate Division: CA 5

NWS Call Sign:

Elevation: 90 Feet

Lat: 37°19N

Lon: 121°01W

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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1976	5	#	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	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
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	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	#	Feb 1976	5	#	Feb 1976	0	0	0	0	0	.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	4/27	4/19	4/14	4/09	4/04	3/31	3/26	3/20	3/12
32	4/04	3/24	3/15	3/08	3/01	2/22	2/15	2/06	1/25
28	2/28	2/16	2/07	1/30	1/23	1/16	1/07	12/28	12/08
24	2/03	1/21	1/11	1/01	12/19	0/00	0/00	0/00	0/00
20	1/08	12/24	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	10/29	11/03	11/07	11/10	11/13	11/16	11/19	11/23	11/28
32	11/04	11/11	11/16	11/20	11/24	11/28	12/02	12/07	12/14
28	11/13	11/22	11/29	12/04	12/10	12/15	12/21	12/29	1/13
24	12/07	12/15	12/21	12/28	1/05	0/00	0/00	0/00	0/00
20	12/27	1/12	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	249	240	233	227	222	216	211	204	194
32	307	293	284	275	268	260	252	242	228
28	>365	>365	344	328	317	306	296	284	269
24	>365	>365	>365	>365	>365	>365	>365	335	312
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

Complete documentation available from:

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Climate Division: CA 5 NWS Call Sign: Elevation: 90 Feet Lat: 37°19N Lon: 121°01W

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	601	395	323	195	79	6	0	0	8	97	365	611	2680
60	446	257	190	104	29	0	0	0	1	36	230	456	1749
57	360	180	128	63	14	0	0	0	0	16	162	366	1289
55	303	134	94	42	8	0	0	0	0	9	123	309	1022
50	178	51	31	13	1	0	0	0	0	1	51	179	505
32	3	0	0	0	0	0	0	0	0	0	0	2	5

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	425	529	707	833	1077	1235	1399	1356	1207	1007	629	413	10817
55	12	19	88	185	372	545	686	643	517	303	61	8	3439
57	7	9	60	146	316	485	624	581	457	248	41	3	2977
60	0	2	30	98	238	396	531	488	368	175	19	0	2345
65	0	0	7	39	133	251	376	333	225	81	4	0	1449
70	0	0	0	12	59	128	227	186	108	27	0	0	747

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	208	345	492	624	855	1026	1182	1143	999	785	416	196	208	553	1045	1669	2524	3550	4732	5875	6874	7659	8075	8271
45	91	208	337	474	700	876	1027	988	849	630	267	83	91	299	636	1110	1810	2686	3713	4701	5550	6180	6447	6530
50	30	90	190	326	545	726	872	833	699	475	137	23	30	120	310	636	1181	1907	2779	3612	4311	4786	4923	4946
55	2	22	74	188	393	576	717	678	549	324	52	0	2	24	98	286	679	1255	1972	2650	3199	3523	3575	3575
60	0	0	16	85	246	427	562	523	401	184	10	0	0	0	16	101	347	774	1336	1859	2260	2444	2454	2454
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	103	202	294	400	538	627	713	703	623	495	251	114	103	305	599	999	1537	2164	2877	3580	4203	4698	4949	5063

(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/normals/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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