

# Climatology of the United States

No. 20

1971-2000

Station: INDIO FIRE STATION, CA

COOP ID: 044259

Climate Division: CA 7

NWS Call Sign:

Elevation: -21 Feet

Lat: 33° 43N

Lon: 116° 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	71.5	42.0	56.8	97	1971	19	62.7	1986	13	1937	22	51.2	1979	267	11	.0	.2	31.0	.0	2.8	.0
Feb	75.9	46.6	61.3	100	1986	27	67.0	1995	20	1933	9	57.3	1975	135	30	@	1.0	28.0	@	.6	.0
Mar	80.5	52.4	66.5	103	1934	15	73.6	1972	25	1971	3	60.3	1991	81	125	.1	3.8	31.0	.0	.1	.0
Apr	87.1	58.7	72.9	109+	1958	22	78.8	2000	33	1945	4	65.2	1975	23	261	1.8	12.1	30.0	.0	.0	.0
May	94.2	65.5	79.9	117	1947	3	86.9	1997	38	1933	11	73.2	1977	4	464	7.1	22.9	31.0	.0	.0	.0
Jun	103.2	72.9	88.1	123	1970	26	92.1	1994	45	1986	26	83.2	1991	0	692	21.2	28.5	30.0	.0	.0	.0
Jul	107.1	78.4	92.8	122+	1943	30	96.1	1996	59	1932	25	89.0	1993	0	860	29.5	31.0	31.0	.0	.0	.0
Aug	106.0	78.0	92.0	121	1933	11	96.4	1995	56	1928	27	88.9	1976	0	836	28.9	30.9	31.0	.0	.0	.0
Sep	101.6	72.0	86.8	122	1950	2	90.7	1995	46	1940	29	81.9	1985	0	655	19.0	28.5	30.0	.0	.0	.0
Oct	92.0	61.5	76.8	115+	1980	4	82.1	1991	31	1971	30	70.3	1971	6	370	4.9	19.2	31.0	.0	@	.0
Nov	79.5	48.1	63.8	101+	1966	1	70.6	1995	23+	1958	18	57.9	1994	109	74	.0	2.4	30.0	.0	.4	.0
Dec	71.7	41.0	56.4	96	1958	4	61.9	1980	19	1990	23	51.6	1978	278	10	.0	.1	31.0	.0	2.8	.0
Ann	89.2	59.8	74.5	123	Jun 1970	26	96.4	Aug 1995	13	Jan 1937	22	51.2	Jan 1979	903	4388	112.5	180.6	365.0	@	6.7	.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](http://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: 1927-2001

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

098-A

# 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: INDIO FIRE STATION, CA**

**COOP ID: 044259**

**Climate Division: CA 7**

**NWS Call Sign:**

**Elevation: -21 Feet**

**Lat: 33°43N**

**Lon: 116°13W**

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	.78	.39	1.95	1995	5	4.18	1993	.00+	2000	3.6	1.9	.4	.2	.00	.00	.00	.05	.18	.36	.59	.90	1.36	2.17	3.00
Feb	.68	.39	1.65	1980	14	3.93	1980	.00+	1997	3.2	1.7	.5	.2	.00	.00	.02	.09	.19	.32	.51	.77	1.15	1.85	2.58
Mar	.47	.27	1.33	1943	4	2.04	1981	.00+	1999	2.6	1.4	.2	.1	.00	.00	.00	.02	.11	.22	.36	.56	.83	1.32	1.81
Apr	.06	.00	.54	1975	9	.60	1975	.00+	2000	.7	.2	.1	.0	.00	.00	.00	.00	.00	.00	.01	.03	.09	.21	.35
May	.06	.00	.49	1981	28	.62	1981	.00+	2000	.5	.2	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.06	.21	.39
Jun	.01	.00	.09	1932	3	.28	1988	.00+	2000	.2	.0	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Jul	.10	.00	1.70	1936	26	1.64	1979	.00+	2000	.8	.4	@	@	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.67
Aug	.20	.00	3.16	1977	17	3.87	1977	.00+	2000	1.3	.5	.1	.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.27	1.20
Sep	.21	.00	6.45	1939	24	4.23	1976	.00+	2000	1.2	.6	.2	.1	.00	.00	.00	.00	.00	.00	.00	.01	.15	.64	1.12
Oct	.12	.00	1.13	1936	16	1.46	1987	.00+	2000	1.2	.3	.1	.0	.00	.00	.00	.00	.00	.00	.01	.06	.16	.39	.66
Nov	.18	.00	1.60	1952	8	1.23	1985	.00+	2000	1.6	.7	.1	@	.00	.00	.00	.00	.00	.00	.07	.19	.34	.59	.84
Dec	.28	.10	2.36	1940	24	1.57	1984	.00+	2000	2.7	1.2	.2	.0	.00	.00	.00	.00	.03	.10	.19	.32	.50	.82	1.14
Ann	3.15	2.65	6.45	Sep 1939	24	4.23	Sep 1976	.00+	Dec 2000	19.6	9.1	1.9	.7	.47	.73	1.19	1.63	2.08	2.58	3.16	3.86	4.81	6.36	7.84

+ 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: 1927-2001

(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 7**

**NWS Call Sign:**

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**Lat: 33°43N**

**Lon: 116°13W**

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	0	.0	0	0	.0	0	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	.0	N/A	N/A	.0	0	0	.0	0	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	3/19	3/08	2/28	2/22	2/15	2/09	2/02	1/26	1/15
32	2/12	2/01	1/24	1/16	1/10	1/02	12/25	12/14	0/00
28	2/01	1/16	1/03	12/18	0/00	0/00	0/00	0/00	0/00
24	12/30	12/15	0/00	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	11/03	11/12	11/18	11/24	11/29	12/04	12/10	12/16	12/25
32	11/18	11/26	12/02	12/07	12/12	12/17	12/23	1/01	0/00
28	12/05	12/18	12/30	1/14	0/00	0/00	0/00	0/00	0/00
24	12/25	0/00	0/00	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	315	303	294	288	282	275	269	261	251
32	>365	>365	>365	354	337	324	313	302	287
28	>365	>365	>365	>365	>365	>365	>365	336	313
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

Complete documentation available from:

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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	267	135	81	23	4	0	0	0	0	6	109	278	903
60	145	56	28	6	0	0	0	0	0	1	44	154	434
57	93	25	13	1	0	0	0	0	0	0	21	100	253
55	63	14	8	0	0	0	0	0	0	0	12	69	166
50	17	1	0	0	0	0	0	0	0	0	2	20	40
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	767	819	1067	1228	1483	1682	1883	1859	1645	1387	955	755	15530
55	117	188	362	538	770	992	1170	1146	955	674	276	111	7299
57	84	144	305	480	708	932	1108	1084	895	612	226	79	6657
60	44	91	227	394	615	842	1015	991	805	519	159	41	5743
65	11	30	125	261	464	692	860	836	655	370	74	10	4388
70	0	6	55	154	321	542	705	681	505	234	26	0	3229

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	517	617	803	965	1224	1428	1633	1611	1391	1123	700	502	517	1134	1937	2902	4126	5554	7187	8798	10189	11312	12012	12514
45	365	473	648	815	1069	1278	1478	1456	1241	968	550	348	365	838	1486	2301	3370	4648	6126	7582	8823	9791	10341	10689
50	218	330	493	665	914	1128	1323	1301	1091	813	400	203	218	548	1041	1706	2620	3748	5071	6372	7463	8276	8676	8879
55	97	196	340	515	759	978	1168	1146	941	658	259	86	97	293	633	1148	1907	2885	4053	5199	6140	6798	7057	7143
60	32	92	201	371	604	828	1013	991	791	504	140	19	32	124	325	696	1300	2128	3141	4132	4923	5427	5567	5586
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	340	394	509	617	783	877	998	994	871	711	458	340	340	734	1243	1860	2643	3520	4518	5512	6383	7094	7552	7892

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)