

Climatology of the United States

No. 20

1971-2000

Station: COALINGA, CA

COOP ID: 041864

Climate Division: CA 5

NWS Call Sign:

Elevation: 670 Feet Lat: 36°08N

Lon: 120°22W

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	58.4	37.9	48.2	77+	1981	21	54.3	1986	17+	1949	12	42.4	1972	524	0	.0	.0	27.6	.0	9.7	.0
Feb	64.9	41.1	53.0	83+	1991	25	58.3	1991	21+	1989	8	49.5	1979	337	0	.0	.0	27.6	@	3.6	.0
Mar	70.3	43.9	57.1	91	1988	26	62.3	1972	24	1953	2	51.9	1973	262	17	.0	@	31.0	.0	1.3	.0
Apr	77.8	47.4	62.6	99	1985	14	68.3+	1989	30+	1978	17	55.7	1975	142	71	.0	3.0	30.0	.0	.3	.0
May	86.4	54.0	70.2	109	1984	28	77.2	1992	35+	1967	1	62.3	1998	48	209	1.6	11.2	31.0	.0	.0	.0
Jun	94.2	60.8	77.5	112+	1961	21	81.3	1981	35	1978	27	72.3	1980	1	376	7.6	22.1	30.0	.0	.0	.0
Jul	99.0	66.1	82.6	114	1991	4	86.8	1984	44	1983	9	77.3	1983	0	544	14.7	28.8	31.0	.0	.0	.0
Aug	97.7	65.1	81.4	113+	1996	13	85.0	1998	47	1957	30	75.8	1976	0	508	12.3	27.9	31.0	.0	.0	.0
Sep	92.5	60.0	76.3	111	1955	2	81.7	1991	41+	1965	20	71.0	1986	3	342	5.0	20.1	30.0	.0	.0	.0
Oct	82.9	51.4	67.2	103+	2001	3	72.8	1991	30	1982	28	62.8	1981	65	130	.6	6.8	31.0	.0	.1	.0
Nov	68.1	41.8	55.0	88+	1997	5	61.4	1995	24	1958	16	50.7	1994	308	7	.0	.0	29.9	.0	3.8	.0
Dec	59.0	35.9	47.5	79	1990	10	52.2	1995	11	1990	22	42.3	1978	544	0	.0	.0	27.8	.0	11.7	.0
Ann	79.3	50.5	64.9	114	Jul 1991	4	86.8	Jul 1984	11	Dec 1990	22	42.3	Dec 1978	2234	2204	41.8	119.9	357.9	@	30.5	.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: 1942-2001

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

045-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: COALINGA, CA

COOP ID: 041864

Climate Division: CA 5

NWS Call Sign:

Elevation: 670 Feet Lat: 36°08N

Lon: 120°22W

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	1.78	1.44	1.83	1974	7	6.15	1993	.00	1976	7.3	4.1	1.1	.4	.02	.09	.27	.50	.78	1.12	1.55	2.12	2.93	4.34	5.78
Feb	1.75	1.40	2.28	1969	24	7.74	1998	.02+	1977	6.9	4.0	1.0	.2	.02	.07	.21	.40	.65	.98	1.41	2.00	2.88	4.45	6.08
Mar	1.55	1.11	3.74	1995	10	6.33	1995	.00	1972	6.6	3.6	.9	.2	.01	.06	.20	.39	.63	.93	1.31	1.82	2.56	3.87	5.21
Apr	.46	.34	1.41	1955	30	1.87	1982	.00+	1979	3.0	1.3	.2	@	.00	.00	.05	.12	.20	.29	.41	.56	.77	1.15	1.53
May	.24	.02	1.55	1998	5	2.30	1998	.00+	2000	1.6	.6	.1	@	.00	.00	.00	.00	.00	.00	.06	.17	.37	.78	1.24
Jun	.06	.00	.70	1998	6	.78	1987	.00+	1999	.4	.2	.1	.0	.00	.00	.00	.00	.00	.00	.00	.00	.01	.18	.42
Jul	.01	.00	.26	1966	30	.16	1992	.00+	2000	.2	@	.0	.0	**	**	**	**	**	**	**	**	**	**	**
Aug	.04	.00	.32	1976	20	.37	1983	.00+	2000	.2	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.24
Sep	.32	.00	1.44	1976	29	3.81	1976	.00+	2000	1.1	.6	.2	@	.00	.00	.00	.00	.00	.00	.01	.15	.45	1.08	1.77
Oct	.38	.19	1.19	1996	29	1.58	1987	.00+	1999	2.3	1.0	.2	@	.00	.00	.01	.05	.11	.20	.30	.45	.66	1.03	1.42
Nov	.64	.42	1.58	1953	14	2.85	1972	.00+	1995	4.0	2.1	.1	@	.00	.00	.05	.12	.22	.35	.52	.74	1.07	1.65	2.24
Dec	1.07	.74	1.98	1966	6	4.37	1977	.00	1975	5.0	2.5	.6	.2	.01	.07	.19	.33	.50	.70	.95	1.28	1.74	2.55	3.36
Ann	8.30	7.35	3.74	Mar 1995	10	7.74	Feb 1998	.00+	Sep 2000	38.6	20.1	4.5	1.0	3.08	3.86	4.97	5.90	6.79	7.69	8.68	9.82	11.27	13.51	15.56

+ 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: 1942-2001

(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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1971-2000

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Station: COALINGA, CA

COOP ID: 041864

Climate Division: CA 5

NWS Call Sign:

Elevation: 670 Feet

Lat: 36°08N

Lon: 120°22W

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	#	1974	4	#	1974	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1996	26	#	1996	#	1996	26	#	1996	.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	#	1972	8	#	1972	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#+	Feb 1996	26	#+	Feb 1996	#	Feb 1996	26	#	Feb 1996	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-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

Complete documentation available from:

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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	5/03	4/21	4/13	4/06	3/31	3/24	3/17	3/09	2/26
32	4/04	3/25	3/18	3/12	3/06	2/28	2/22	2/15	2/05
28	3/04	2/18	2/08	1/31	1/22	1/14	1/05	12/24	12/01
24	1/29	1/18	1/09	12/31	12/18	0/00	0/00	0/00	0/00
20	12/18	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	10/25	10/30	11/03	11/06	11/09	11/12	11/15	11/19	11/24
32	11/05	11/11	11/15	11/18	11/21	11/25	11/28	12/02	12/08
28	11/15	11/24	11/30	12/06	12/12	12/18	12/24	1/03	0/00
24	12/12	12/18	12/24	12/30	1/09	0/00	0/00	0/00	0/00
20	12/21	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	262	248	239	230	223	215	207	197	184
32	298	285	275	267	259	252	243	234	220
28	>365	>365	342	327	316	306	296	285	270
24	>365	>365	>365	>365	>365	>365	>365	339	321
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	Ann
65	524	337	262	142	48	1	0	0	3	65	308	544	2234
60	375	202	146	68	16	0	0	0	0	21	182	389	1399
57	289	129	94	37	8	0	0	0	0	8	120	302	987
55	237	90	65	23	4	0	0	0	0	4	87	245	755
50	131	25	19	6	0	0	0	0	0	0	30	128	339
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	500	588	778	919	1184	1365	1567	1531	1329	1088	689	479	12017
55	23	33	130	252	475	675	854	818	639	380	85	12	4376
57	14	17	97	206	417	615	792	756	579	322	59	6	3880
60	6	5	56	146	333	525	699	663	489	241	31	0	3194
65	0	0	17	71	209	376	544	508	342	130	7	0	2204
70	0	0	4	26	115	233	389	353	207	56	1	0	1384

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	246	371	518	661	921	1111	1300	1266	1063	827	433	231	246	617	1135	1796	2717	3828	5128	6394	7457	8284	8717	8948
45	126	230	365	511	766	961	1145	1111	913	672	286	109	126	356	721	1232	1998	2959	4104	5215	6128	6800	7086	7195
50	46	109	216	364	611	811	990	956	763	517	157	39	46	155	371	735	1346	2157	3147	4103	4866	5383	5540	5579
55	11	35	99	227	457	661	835	801	613	365	66	2	11	46	145	372	829	1490	2325	3126	3739	4104	4170	4172
60	0	2	34	118	308	511	680	646	463	229	19	0	0	2	36	154	462	973	1653	2299	2762	2991	3010	3010
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	143	225	321	423	578	686	791	780	658	521	281	151	143	368	689	1112	1690	2376	3167	3947	4605	5126	5407	5558

(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 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