

Climatography of the United States

No. 20

1971-2000

Station: SALINAS AP, CA

COOP ID: 047669

Climate Division: CA 4

NWS Call Sign: SNS

Elevation: 74 Feet

Lat: 36°40N

Lon: 121°36W

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	61.0	41.3	51.2	82	1948	23	55.8	1981	18	1937	21	45.3	1982	431	0	.0	.0	30.5	.0	2.4	.0
Feb	62.7	43.3	53.0	85+	1995	20	56.7	1992	25+	1949	13	48.4	1989	337	0	.0	.0	27.7	.0	.9	.0
Mar	63.8	44.6	54.2	88	1934	9	58.6	1978	27+	1953	2	49.4	1977	326	6	.0	.0	31.0	.0	.3	.0
Apr	67.0	46.1	56.6	98	1989	7	61.2	1992	29	1933	9	51.5	1975	258	12	.0	.3	30.0	.0	.0	.0
May	68.0	50.1	59.1	99+	1984	27	65.0	1997	34+	1967	1	54.4	1977	202	18	.0	.3	31.0	.0	.0	.0
Jun	70.5	52.8	61.7	104	1973	20	64.5	1981	39+	1933	2	57.8	1982	119	18	.1	.8	30.0	.0	.0	.0
Jul	71.3	55.0	63.2	99+	1985	1	66.7	1983	42+	1936	25	60.3	1971	92	34	.0	.3	31.0	.0	.0	.0
Aug	72.5	55.7	64.1	98	1968	29	68.7	1983	42+	1934	18	61.7	1982	63	35	.0	.2	31.0	.0	.0	.0
Sep	74.5	54.4	64.5	105	1971	14	70.4	1983	36+	1950	30	61.3	1986	75	58	.2	1.3	30.0	.0	.0	.0
Oct	73.0	50.1	61.6	105+	1987	5	66.4	1983	28	1935	31	55.7	1971	131	25	.2	1.5	31.0	.0	.1	.0
Nov	66.6	44.3	55.5	95	1966	1	60.9	1995	25+	1938	12	51.0	1994	292	4	.0	.1	29.9	.0	.3	.0
Dec	61.4	40.0	50.7	84	1980	16	54.7	1980	23	1954	27	45.9	1971	444	0	.0	.0	30.2	.0	3.3	.0
Ann	67.7	48.1	58.0	105+	Oct 1987	5	70.4	Sep 1983	18	Jan 1937	21	45.3	Jan 1982	2770	210	.5	4.8	363.3	.0	7.3	.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: 1878-2001

(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: SALINAS AP, CA

COOP ID: 047669

Climate Division: CA 4

NWS Call Sign: SNS

Elevation: 74 Feet

Lat: 36°40N

Lon: 121°36W

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	2.62	2.46	2.66	2000	23	7.81	1995	.10	1984	9.0	5.9	1.5	.2	.23	.41	.75	1.12	1.52	1.97	2.51	3.19	4.12	5.69	7.23	
Feb	2.48	2.07	2.03	1937	6	9.96	1998	.20	1997	9.3	6.0	1.6	.3	.27	.46	.81	1.15	1.52	1.94	2.43	3.03	3.85	5.21	6.54	
Mar	2.36	2.14	1.87	1995	10	5.99	1991	.01	1972	9.4	5.8	1.5	.2	.16	.31	.60	.93	1.29	1.71	2.21	2.86	3.75	5.27	6.76	
Apr	.93	.68	2.15	1974	1	3.40	1978	.02	1973	5.2	2.5	.3	.1	.07	.13	.25	.38	.52	.69	.89	1.13	1.48	2.06	2.63	
May	.23	.06	1.69	1931	24	1.38	1990	.00+	1992	2.9	.9	.1	.0	.00	.00	.00	.01	.04	.08	.15	.24	.39	.66	.96	
Jun	.09	.04	.58	1934	5	.55	1995	.00+	1991	1.4	.2	.0	.0	.00	.00	.00	.00	.01	.03	.06	.10	.15	.25	.34	
Jul	.04	.00	.51	1980	2	.56	1980	.00+	2000	.3	.1	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.01	.10	.21	
Aug	.06	.00	.88	1935	26	.70	1976	.00+	2000	.6	.3	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.04	.19	.36	
Sep	.21	.04	.78	1983	30	1.22	1976	.00+	1999	1.5	.5	.1	.0	.00	.00	.00	.00	.00	.03	.08	.18	.33	.64	.99	
Oct	.62	.34	1.16	1944	31	2.82	2000	.00+	1995	2.9	1.6	.4	@	.00	.00	.01	.08	.17	.30	.47	.71	1.06	1.68	2.34	
Nov	1.51	1.24	1.76	1946	20	4.77	1982	.00	1980	6.4	3.6	1.0	.1	.02	.09	.26	.47	.70	.99	1.35	1.82	2.48	3.62	4.78	
Dec	1.76	1.66	2.68	1973	27	5.01	1973	.05	1989	7.5	4.2	.8	.2	.19	.32	.56	.81	1.07	1.37	1.72	2.15	2.74	3.72	4.67	
Ann	12.91	11.69	2.68	Dec 1973	27	9.96	Feb 1998	.00+	Aug 2000	56.4	31.6	7.3	1.1	5.79	6.94	8.53	9.82	11.02	12.24	13.54	15.03	16.90	19.74	22.31	

+ 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: 1878-2001

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

Complete documentation available from:

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Station: SALINAS AP, CA

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Climate Division: CA 4

NWS Call Sign: SNS

Elevation: 74 Feet

Lat: 36° 40N

Lon: 121° 36W

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	3	#	1974	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1990	18	#+	1990	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	#	1994	26	#	1994	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1990	20	#+	1990	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	#+	Nov 1994	26	#+	Nov 1994	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	4/21	4/08	3/29	3/21	3/14	3/06	2/26	2/16	2/03
32	3/01	2/16	2/07	1/29	1/22	1/14	1/05	12/26	12/10
28	1/24	1/12	1/01	12/15	0/00	0/00	0/00	0/00	0/00
24	0/00	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
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	10/31	11/07	11/12	11/16	11/20	11/24	11/28	12/03	12/09
32	11/17	11/25	12/01	12/06	12/10	12/15	12/20	12/27	1/06
28	12/17	1/01	1/17	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	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	295	280	269	259	250	241	232	221	205
32	>365	>365	345	331	319	309	299	287	271
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
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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Climate Division: CA 4 NWS Call Sign: SNS Elevation: 74 Feet Lat: 36°40N Lon: 121°36W

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	431	337	326	258	202	119	92	63	75	131	292	444	2770
60	281	204	205	131	99	36	21	7	17	45	162	294	1502
57	198	133	140	78	54	12	6	0	6	17	102	210	956
55	149	95	105	49	32	5	2	0	2	8	71	160	678
50	62	29	38	10	7	0	0	0	0	0	20	69	235
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	592	587	687	736	839	889	965	996	973	917	702	579	9462
55	29	39	79	95	158	204	254	283	285	212	83	26	1747
57	15	21	52	64	118	150	196	221	229	159	54	14	1293
60	6	7	24	28	70	85	118	135	150	94	24	5	746
65	0	0	6	12	18	18	34	35	58	25	4	0	210
70	0	0	0	0	3	1	4	3	11	3	0	0	25

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	350	384	443	496	589	651	721	745	735	682	469	338	350	734	1177	1673	2262	2913	3634	4379	5114	5796	6265	6603
45	200	240	289	346	434	501	566	590	585	527	319	188	200	440	729	1075	1509	2010	2576	3166	3751	4278	4597	4785
50	88	116	147	198	279	351	411	435	435	372	177	73	88	204	351	549	828	1179	1590	2025	2460	2832	3009	3082
55	22	36	46	75	134	201	256	280	285	220	74	15	22	58	104	179	313	514	770	1050	1335	1555	1629	1644
60	0	2	0	24	37	68	105	128	137	93	18	0	0	2	2	26	63	131	236	364	501	594	612	612
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	182	197	221	264	305	351	410	437	432	389	258	188	182	379	600	864	1169	1520	1930	2367	2799	3188	3446	3634

(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