

Climatology of the United States

No. 20

1971-2000

Station: SALINAS NO 2, CA

COOP ID: 047668

Climate Division: CA 4

NWS Call Sign:

Elevation: 45 Feet

Lat: 36°40N

Lon: 121°40W

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	62.7	40.6	51.7	85+	1994	18	56.3	1986	22	1963	12	47.5	1990	415	0	.0	.0	30.7	.0	2.5	.0
Feb	64.4	42.6	53.5	86	1976	1	56.8	1988	25	1962	27	47.6	1990	323	0	.0	.0	27.9	.0	.9	.0
Mar	65.2	43.7	54.5	88+	1972	5	58.1	1986	25	1977	1	49.4	1985	310	0	.0	.0	31.0	.0	.4	.0
Apr	67.6	44.7	56.2	98	1989	7	60.1	1992	30	1964	1	52.4	1975	267	5	.0	.4	30.0	.0	.1	.0
May	68.3	47.9	58.1	99+	1997	16	63.6	1997	35	1962	23	54.8	1985	222	7	.0	.4	31.0	.0	.0	.0
Jun	70.7	50.6	60.7	103+	1976	24	65.4	1981	41	1958	11	56.7	1984	143	13	.1	.7	30.0	.0	.0	.0
Jul	71.4	53.1	62.3	100	1959	10	65.4	1995	43+	2001	31	59.1	1989	101	16	.0	.4	31.0	.0	.0	.0
Aug	72.7	53.8	63.3	102	1968	29	67.1	1983	42	1963	26	60.0	1973	79	24	.0	.3	31.0	.0	.0	.0
Sep	74.6	52.3	63.5	106	1971	14	69.7	1983	37	1964	17	60.5	1986	88	41	.2	1.3	30.0	.0	.0	.0
Oct	73.5	48.0	60.8	105	1987	5	65.4	1983	34	1971	29	56.7	1971	150	18	.2	1.4	31.0	.0	.0	.0
Nov	67.5	42.8	55.2	94+	1997	2	60.4	1995	29+	1985	19	50.3	1985	299	4	.0	.1	30.0	.0	.4	.0
Dec	62.9	39.4	51.2	92	1958	3	55.4	1983	24+	1990	22	46.0	1990	430	0	.0	.0	30.6	.0	2.7	.0
Ann	68.5	46.6	57.6	106	Sep 1971	14	69.7	Sep 1983	22	Jan 1963	12	46.0	Dec 1990	2827	128	.5	5.0	364.2	.0	7.0	.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: 1958-2001

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

Climatology of the United States

No. 20 1971-2000

Station: SALINAS NO 2, CA

COOP ID: 047668

Climate Division: CA 4

NWS Call Sign:

Elevation: 45 Feet

Lat: 36° 40N

Lon: 121° 40W

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	3.00	2.60	2.96	2000	23	7.74	1993	.00	1971	6.9	4.9	2.1	.6	.09	.31	.72	1.15	1.63	2.18	2.84	3.67	4.83	6.77	8.70	
Feb	2.92	2.57	2.38+	1998	3	11.10	1998	.16	1997	7.6	5.5	1.9	.4	.27	.48	.87	1.27	1.72	2.22	2.81	3.56	4.58	6.29	7.96	
Mar	2.77	2.22	2.08	1974	28	9.34	1991	.06	1972	7.3	5.1	1.8	.3	.21	.39	.75	1.13	1.55	2.04	2.62	3.36	4.39	6.11	7.82	
Apr	1.00	.72	2.09	1974	1	3.52	1978	.00	1985	4.5	2.5	.5	@	.03	.10	.23	.37	.53	.72	.94	1.22	1.62	2.28	2.94	
May	.34	.05	.85	1996	16	2.32	1998	.00+	1992	2.2	1.0	.2	.0	.00	.00	.00	.00	.01	.06	.15	.31	.56	1.04	1.56	
Jun	.09	.01	.47	1995	16	.59	1995	.00+	1992	.7	.3	.0	.0	.00	.00	.00	.00	.00	.00	.02	.07	.14	.29	.43	
Jul	.04	.00	.67	1980	2	.67	1980	.00+	2000	.2	.1	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.26	
Aug	.07	.00	.54	1976	19	.89	1976	.00+	1998	.4	.2	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.03	.21	.42	
Sep	.18	.00	2.60	1959	19	1.27	1976	.00+	1997	.9	.4	.1	@	.00	.00	.00	.00	.00	.00	.03	.12	.28	.58	.91	
Oct	.74	.58	1.50	1982	30	2.30	2000	.00+	1995	2.5	1.6	.6	.1	.00	.00	.00	.18	.34	.51	.70	.95	1.28	1.84	2.38	
Nov	1.85	1.37	2.05+	1997	26	5.04	1982	.00+	1992	5.3	3.8	1.2	.3	.00	.00	.28	.61	.96	1.34	1.78	2.33	3.10	4.33	5.56	
Dec	2.12	1.64	2.95	1977	17	5.92	1996	.07	1989	6.4	4.2	1.0	.4	.23	.40	.69	.99	1.30	1.66	2.07	2.59	3.29	4.46	5.59	
Ann	15.12	14.19	2.96	Jan 2000	23	11.10	Feb 1998	.00+	Jul 2000	44.9	29.6	9.4	2.1	6.67	8.02	9.90	11.43	12.86	14.30	15.85	17.62	19.85	23.24	26.31	

+ 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: 1958-2001

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

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

Climatography of the United States

No. 20 1971-2000

Station: SALINAS NO 2, CA

COOP ID: 047668

Climate Division: CA 4

NWS Call Sign:

Elevation: 45 Feet

Lat: 36° 40N

Lon: 121° 40W

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

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: SALINAS NO 2, CA

COOP ID: 047668

Climate Division: CA 4

NWS Call Sign:

Elevation: 45 Feet

Lat: 36° 40N

Lon: 121° 40W

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	4/15	4/02	3/24	3/16	3/08	3/01	2/21	2/12	1/30
32	3/12	2/25	2/14	2/04	1/26	1/17	1/06	12/24	11/29
28	2/02	1/14	12/25	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
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	11/06	11/12	11/17	11/21	11/26	12/01	12/07	12/15
32	11/15	11/24	12/01	12/08	12/13	12/19	12/26	1/03	1/19
28	12/16	1/02	1/20	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	306	289	277	267	257	247	237	225	208
32	>365	>365	344	326	314	304	294	282	267
28	>365	>365	>365	>365	>365	>365	>365	>365	355
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:

www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

Climatology of the United States

No. 20 1971-2000

Station: SALINAS NO 2, CA

COOP ID: 047668

Climate Division: CA 4

NWS Call Sign:

Elevation: 45 Feet

Lat: 36°40N

Lon: 121°40W

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	415	323	310	267	222	143	101	79	88	150	299	430	2827
60	265	191	190	135	101	50	20	11	22	55	169	280	1489
57	182	122	122	77	53	18	5	2	7	22	108	196	914
55	135	86	88	48	29	8	1	0	2	11	76	147	631
50	50	23	25	8	4	0	0	0	0	1	22	59	192
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	608	601	696	725	808	860	938	968	942	891	695	593	9325
55	30	43	71	83	124	178	226	255	255	189	80	27	1561
57	15	23	44	52	86	128	168	195	199	139	52	14	1115
60	5	8	18	19	41	70	90	112	124	79	23	5	594
65	0	0	0	5	7	13	16	24	41	18	4	0	128
70	0	0	0	0	0	0	0	1	6	1	0	0	8

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	380	409	469	512	589	644	714	750	733	673	482	369	380	789	1258	1770	2359	3003	3717	4467	5200	5873	6355	6724
45	231	266	315	362	434	494	559	595	583	518	332	218	231	497	812	1174	1608	2102	2661	3256	3839	4357	4689	4907
50	107	134	167	212	279	344	404	440	433	363	190	97	107	241	408	620	899	1243	1647	2087	2520	2883	3073	3170
55	26	46	62	86	133	194	249	285	283	212	82	26	26	72	134	220	353	547	796	1081	1364	1576	1658	1684
60	2	6	8	24	38	63	99	130	136	86	21	0	2	8	16	40	78	141	240	370	506	592	613	613
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	207	221	249	279	306	347	406	437	430	394	277	212	207	428	677	956	1262	1609	2015	2452	2882	3276	3553	3765

(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 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/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