U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: PASO ROBLES MUNICIPAL AP, CA **COOP ID: 046742**

Climate Division: CA 4 **NWS Call Sign: PRB** **Elevation: 810 Feet** **Lat: 35˚40N** **Lon: 120˚38W**

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	60.3	35.6	48.0	83	1976	31	52.4	1986	13	1976	1	43.1	1972	528	0	.0	.0	29.4	.0	13.4	.0
Feb	63.4	38.7	51.1	83	1991	25	56.4	1991	18+	1971	27	47.0	1971	390	0	.0	.0	27.4	.1	7.3	.0
Mar	66.4	40.5	53.5	91	1966	31	57.9	1993	20	1971	2	48.5	1977	363	3	.0	.0	30.9	.0	3.8	.0
Apr	73.6	41.0	57.3	99+	1989	8	62.2	1989	27+	1972	19	50.4	1975	252	20	.0	1.3	30.0	.0	1.8	.0
May	81.1	45.4	63.3	108+	2001	31	72.0	1997	30	1974	18	57.6	1971	134	78	.7	6.5	31.0	.0	.1	.0
Jun	88.8	50.0	69.4	115+	2000	14	73.9	1981	36	1988	8	65.6	1998	25	157	3.7	14.4	30.0	.0	.0	.0
Jul	93.9	53.7	73.8	115+	1961	11	77.7	1996	41	1948	5	70.5	1993	2	274	8.1	21.3	31.0	.0	.0	.0
Aug	93.7	53.7	73.7	114	1998	3	78.1	1998	40	1968	26	70.4	1975	2	271	7.2	21.2	31.0	.0	.0	.0
Sep	89.1	50.8	70.0	112+	1955	2	74.6	1984	34+	1948	26	64.0	1986	28	176	3.6	14.8	30.0	.0	.0	.0
Oct	80.5	44.4	62.5	106	1980	1	67.3	1991	20	1971	29	56.7	1971	138	58	.5	5.4	31.0	.0	1.1	.0
Nov	67.8	37.5	52.7	98	1966	1	57.9	1995	18	1958	17	46.8	1994	371	1	.0	.1	29.9	.0	8.0	.0
Dec	60.8	33.3	47.1	83	1958	4	53.3	1977	8+	1990	23	41.2	1990	556	0	.0	.0	29.4	.0	16.8	.0
Ann	76.6	43.7	60.2	115+	Jun 2000	14	78.1	Aug 1998	8+	Dec 1990	23	41.2	Dec 1990	2789	1038	23.8	85.0	361.0	.1	52.3	.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/normals/usnormals.html

(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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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	2.83	2.06	3.09	1969	19	10.31	1995	.00	1976
Feb	2.87	2.01	3.09	1980	16	8.42	1998	.02	1977
Mar	2.66	1.95	5.47	1995	10	11.53	1995	.00+	1997
Apr	.68	.35	1.64	1958	6	2.84	1978	.00+	1997
May	.23	.01	1.09	1955	7	2.15	1998	.00+	1999
Jun	.02	.00	.26	1957	9	.30	1995	.00+	1999
Jul	.01	.00	.58	1950	9	.21	1980	.00+	2000
Aug	.06	.00	.89	1976	19	.90	1976	.00+	2000
Sep	.36	.00	1.61	1976	28	3.21	1976	.00+	2000
Oct	.51	.41	1.68	1996	29	2.09	1996	.00+	1999
Nov	1.12	.68	2.12	1953	14	3.78	1982	.00	1992
Dec	1.73	1.26	3.07	1966	6	4.86	1996	.00	1989
Ann	13.08	12.41	5.47	Mar 1995	10	11.53	Mar 1995	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.7	5.5	2.0	.5
Feb	7.7	5.1	2.2	.7
Mar	7.6	5.0	1.9	.6
Apr	3.8	1.8	.4	.1
May	1.3	.6	.1	@
Jun	.5	.1	.0	.0
Jul	.1	.1	.0	.0
Aug	.2	.1	.1	.0
Sep	1.1	.7	.3	.1
Oct	2.2	1.3	.2	@
Nov	4.5	2.9	.7	.1
Dec	5.4	3.1	1.3	.4
Ann	42.1	26.3	9.2	2.5

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.09	.30	.69	1.10	1.55	2.07	2.69	3.47	4.55	6.37	8.16
Feb	.06	.16	.42	.76	1.19	1.73	2.42	3.35	4.71	7.12	9.58
Mar	.00	.11	.46	.85	1.29	1.81	2.44	3.23	4.37	6.29	8.21
Apr	.00	.00	.04	.13	.24	.38	.57	.81	1.16	1.77	2.40
May	.00	.00	.00	.00	.00	.00	.02	.11	.31	.71	1.21
Jun	.00	.00	.00	.00	.00	.00	.00	.00	.03	.09	.14
Jul	**	**	**	**	**	**	**	**	**	**	**
Aug	**	**	**	**	**	**	**	**	**	**	**
Sep	.00	.00	.00	.00	.00	.00	.03	.19	.51	1.19	1.95
Oct	.00	.00	.00	.08	.18	.29	.43	.62	.88	1.34	1.79
Nov	.01	.04	.14	.28	.45	.66	.94	1.31	1.85	2.80	3.77
Dec	.04	.15	.37	.61	.89	1.21	1.61	2.11	2.81	4.00	5.19
Ann	5.12	6.33	8.05	9.48	10.83	12.21	13.70	15.41	17.60	20.95	24.00

\+ 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:
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Snow (inches)

Snow Totals

Means/Medians (1)					Extremes (2)									Mean Number of Days (1)								
														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	#	1994	25	#+	1994	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1989	8	#+	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1976	3	#	1976	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	.1	.0	0	0	4.0	1988	15	4.0	1988	0	0	0	0	0	.0	.0	@	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	4.0	Dec 1988	15	4.0	Dec 1988	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	5/24	5/18	5/13	5/10	5/06	5/03	4/29	4/25	4/19
32	5/11	4/28	4/18	4/10	4/03	3/26	3/18	3/09	2/23
28	4/01	3/16	3/05	2/24	2/15	2/06	1/28	1/17	1/01
24	2/26	2/12	2/01	1/23	1/14	1/04	12/24	12/07	0/00
20	1/26	1/09	12/25	12/06	0/00	0/00	0/00	0/00	0/00
16	12/25	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	10/07	10/13	10/17	10/20	10/24	10/27	10/30	11/03	11/09
32	10/21	10/26	10/30	11/02	11/05	11/08	11/11	11/15	11/19
28	10/29	11/06	11/12	11/17	11/22	11/27	12/02	12/09	12/17
24	11/13	11/22	11/29	12/05	12/11	12/17	12/24	1/04	0/00
20	11/26	12/10	12/24	1/13	0/00	0/00	0/00	0/00	0/00
16	1/08	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	192	185	179	174	170	165	160	155	147
32	256	242	232	223	216	208	199	189	175
28	334	313	300	289	278	268	257	245	227
24	>365	>365	>365	341	326	314	302	289	272
20	>365	>365	>365	>365	>365	>365	>365	358	308
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	528	390	363	252	134	25	2	2	28	138	371	556	2789
60	373	254	223	143	61	4	0	0	6	59	230	401	1754
57	287	178	152	94	33	1	0	0	2	29	157	314	1247
55	231	133	115	67	21	0	0	0	0	17	116	258	958
50	118	52	42	21	5	0	0	0	0	3	42	139	422
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	496	534	664	758	968	1123	1295	1292	1138	943	620	468	10299
55	14	22	65	135	275	433	582	579	448	247	45	12	2857
57	7	11	41	102	225	374	520	517	389	198	27	7	2418
60	0	3	18	61	161	287	427	424	304	134	10	0	1829
65	0	0	3	20	78	157	274	271	176	58	1	0	1038
70	0	0	0	5	27	65	137	134	83	18	0	0	469

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	243	320	411	518	722	883	1046	1042	900	692	375	219	243	563	974	1492	2214	3097	4143	5185	6085	6777	7152	7371
45	116	181	259	369	567	733	891	887	750	538	231	97	116	297	556	925	1492	2225	3116	4003	4753	5291	5522	5619
50	38	73	126	225	413	583	736	732	600	384	110	23	38	111	237	462	875	1458	2194	2926	3526	3910	4020	4043
55	1	17	43	107	262	434	581	577	450	242	36	0	1	18	61	168	430	864	1445	2022	2472	2714	2750	2750
60	0	0	2	37	141	286	426	422	301	122	5	0	0	0	2	39	180	466	892	1314	1615	1737	1742	1742
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	166	199	255	350	458	527	613	612	541	451	266	174	166	365	620	970	1428	1955	2568	3180	3721	4172	4438	4612

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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