

# Climatology of the United States

## No. 20

### 1971-2000

**Station: KERN RIVER PH 3, CA**

**COOP ID: 044523**

**Climate Division: CA 5**

**NWS Call Sign:**

**Elevation: 2,703 Feet Lat: 35°47N**

**Lon: 118°26W**

### 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	59.3	31.5	45.4	80	1976	16	52.3	1986	11	1950	5	41.3	1982	607	0	.0	.0	27.4	.0	15.4	.0
Feb	62.5	34.3	48.4	86	1986	26	54.6	1995	14	1989	6	43.4	1989	465	0	.0	.0	26.3	.1	10.4	.0
Mar	65.6	37.4	51.5	90	1966	31	57.9	1972	21	1950	12	45.4	1991	422	4	.0	.0	30.2	.0	5.6	.0
Apr	71.9	41.7	56.8	97	1981	30	64.3	1987	26	1997	2	49.0	1975	277	31	.0	1.1	29.8	.0	1.3	.0
May	80.2	48.8	64.5	102+	1984	29	69.9	1992	30	1975	5	56.7	1998	120	105	.1	6.0	31.0	.0	@	.0
Jun	89.8	56.2	73.0	109+	1972	30	78.3	1981	39	1971	1	66.3	1998	19	259	3.6	17.7	30.0	.0	.0	.0
Jul	96.8	62.0	79.4	112	1998	19	85.2	1996	42+	1975	1	74.5	1983	0	446	11.7	28.9	31.0	.0	.0	.0
Aug	96.3	61.3	78.8	109	1990	5	83.6	1996	44	1948	26	74.2	1976	0	429	10.5	27.2	31.0	.0	.0	.0
Sep	89.8	55.6	72.7	108	1950	2	77.4	1991	36+	1950	30	66.3	1986	16	247	2.8	19.1	30.0	.0	.0	.0
Oct	79.7	45.9	62.8	102	1980	1	67.9	1991	23	1971	30	58.0	1984	140	71	.1	5.2	31.0	.0	.4	.0
Nov	66.6	35.1	50.9	89+	1989	10	56.4	1976	19	1948	29	45.7	1994	425	1	.0	.0	29.5	.0	7.6	.0
Dec	60.0	30.5	45.3	84+	1980	16	50.9	1980	10	1990	22	39.5	1971	612	0	.0	.0	28.1	.0	16.3	.0
Ann	76.5	45.0	60.8	112	Jul 1998	19	85.2	Jul 1996	10	Dec 1990	22	39.5	Dec 1971	3103	1593	28.8	105.2	355.3	.1	57.0	.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](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: 1948-2001

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

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### 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	2.88	2.34	3.28	1963	31	8.84	1995	.00+	1984	7.1	5.0	2.3	.9	.00	.21	.67	1.11	1.59	2.14	2.78	3.56	4.66	6.48	8.27	
Feb	2.74	1.84	2.93	1978	9	10.55	1998	.07	1997	6.9	5.0	2.4	.6	.18	.34	.68	1.06	1.48	1.97	2.56	3.32	4.38	6.17	7.95	
Mar	2.35	2.22	2.29	1978	4	8.81	1991	.00+	1997	7.5	5.0	1.3	.5	.00	.20	.60	.97	1.36	1.80	2.30	2.92	3.78	5.19	6.57	
Apr	.61	.56	1.90	1986	6	1.99	1988	.00+	1993	3.9	1.9	.3	.1	.00	.00	.04	.15	.27	.41	.57	.77	1.05	1.51	1.98	
May	.31	.21	1.02	2000	16	1.35	1998	.00+	1997	2.6	1.0	.2	@	.00	.00	.00	.08	.15	.22	.30	.39	.52	.74	.95	
Jun	.13	.00	1.01	1977	8	1.18	1977	.00+	2000	.9	.4	.1	@	.00	.00	.00	.00	.00	.00	.00	.03	.15	.43	.75	
Jul	.13	.01	.90	1984	30	2.31	1984	.00+	2000	1.0	.4	@	.0	.00	.00	.00	.00	.00	.00	.02	.07	.17	.38	.65	
Aug	.19	.03	1.26	1961	22	1.42	1983	.00+	1997	1.1	.6	.1	.0	.00	.00	.00	.00	.00	.02	.07	.17	.32	.61	.91	
Sep	.40	.06	1.86	1976	29	3.72	1976	.00+	2000	1.9	1.0	.3	@	.00	.00	.00	.00	.01	.07	.18	.36	.66	1.25	1.89	
Oct	.49	.23	.89	1974	28	2.82	1996	.00+	1999	2.5	1.2	.2	.0	.00	.00	.01	.06	.14	.24	.37	.56	.83	1.32	1.82	
Nov	1.26	.95	3.37	1950	19	4.94	1982	.00+	1995	3.8	2.6	.9	.1	.00	.00	.14	.31	.53	.78	1.10	1.52	2.11	3.14	4.18	
Dec	1.75	1.34	2.26	1996	11	6.79	1977	.00+	1999	5.3	3.4	1.1	.5	.00	.09	.34	.60	.89	1.23	1.63	2.14	2.86	4.07	5.27	
Ann	13.24	12.88	3.37	Nov 1950	19	10.55	Feb 1998	.00+	Sep 2000	44.5	27.5	9.2	2.7	5.82	7.00	8.65	10.00	11.26	12.52	13.88	15.44	17.41	20.40	23.10	

+ 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

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Lat: 35° 47N

Lon: 118° 26W

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	.3	.0	#	0	6.0	1997	14	6.0	1997	6	1997	14	#	1997	.1	.1	.1	.1	.0	@	@	@	.0
Feb	.0	.0	0	0	.5	1971	28	.5	1971	0	0	0	0	0	.1	.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	#	1986	23	#	1986	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	6.0	Jan 1997	14	6.0	Jan 1997	6	Jan 1997	14	#	Jan 1997	.2	.1	.1	.1	.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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<b>Freeze Data</b>									
<b>Spring Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of later date in spring (thru Jul 31) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	5/12	5/05	4/30	4/25	4/21	4/17	4/13	4/08	4/01
<b>32</b>	4/21	4/13	4/07	4/02	3/29	3/24	3/19	3/13	3/05
<b>28</b>	4/04	3/23	3/14	3/07	2/28	2/21	2/14	2/05	1/24
<b>24</b>	2/24	2/13	2/05	1/29	1/23	1/16	1/09	12/30	12/12
<b>20</b>	2/09	1/25	1/12	12/30	12/07	0/00	0/00	0/00	0/00
<b>16</b>	1/01	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Fall Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of earlier date in fall (beginning Aug 1) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	10/19	10/23	10/26	10/29	10/31	11/03	11/05	11/09	11/13
<b>32</b>	10/28	11/02	11/05	11/08	11/11	11/14	11/17	11/21	11/25
<b>28</b>	11/05	11/11	11/15	11/18	11/21	11/24	11/28	12/01	12/07
<b>24</b>	11/19	11/29	12/06	12/12	12/19	12/25	1/01	1/09	1/26
<b>20</b>	12/10	12/27	1/10	1/27	0/00	0/00	0/00	0/00	0/00
<b>16</b>	1/05	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Freeze Free Period</b>									
<b>Temp (F)</b>	<b>Probability of longer than indicated freeze free period (Days)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	218	209	203	197	192	187	182	176	167
<b>32</b>	256	246	239	233	227	221	215	208	198
<b>28</b>	305	291	282	273	265	258	249	239	226
<b>24</b>	>365	>365	365	342	329	318	308	297	282
<b>20</b>	>365	>365	>365	>365	>365	>365	>365	>365	340
<b>16</b>	>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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NWS Call Sign:

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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
65	607	465	422	277	120	19	0	0	16	140	425	612	3103
60	452	327	281	173	55	4	0	0	3	64	284	457	2100
57	360	249	207	124	30	1	0	0	1	35	209	370	1586
55	302	199	164	95	20	0	0	0	0	22	164	313	1279
50	168	100	81	41	5	0	0	0	0	5	78	185	663
32	0	0	0	0	0	0	0	0	0	0	0	3	3

Base	Cooling Degree Days (1)												
	Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
32	416	459	605	744	1008	1230	1469	1452	1221	954	566	414	10538
55	6	14	56	149	315	540	756	739	531	263	40	11	3420
57	1	8	37	118	263	481	694	677	472	214	25	6	2996
60	0	2	18	77	195	394	601	584	384	150	10	0	2415
65	0	0	4	31	105	259	446	429	247	71	1	0	1593
70	0	0	0	11	44	148	296	277	135	25	0	0	936

### 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	225	288	402	553	814	1044	1269	1251	1037	762	386	228	225	513	915	1468	2282	3326	4595	5846	6883	7645	8031	8259
45	108	164	258	406	659	894	1114	1096	887	607	244	111	108	272	530	936	1595	2489	3603	4699	5586	6193	6437	6548
50	40	77	136	272	505	744	959	941	737	454	131	40	40	117	253	525	1030	1774	2733	3674	4411	4865	4996	5036
55	5	28	57	155	357	594	804	786	587	306	55	3	5	33	90	245	602	1196	2000	2786	3373	3679	3734	3737
60	0	2	16	73	221	445	649	631	437	183	15	0	0	2	18	91	312	757	1406	2037	2474	2657	2672	2672
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	167	201	263	357	515	654	787	772	648	488	269	175	167	368	631	988	1503	2157	2944	3716	4364	4852	5121	5296

(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.  
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 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](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)