

# Climatology of the United States

## No. 20

### 1971-2000

**Station: VICTORVILLE PUMP PLANT, CA**

**COOP ID: 049325**

**Climate Division: CA 7**

**NWS Call Sign:**

**Elevation: 2,858 Feet Lat: 34° 32N**

**Lon: 117° 18W**

### 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	59.5	31.4	45.5	80+	1971	21	50.6	1986	-1	1949	17	41.3	1973	606	0	.0	.0	26.8	.0	18.5	.0
Feb	63.4	34.5	49.0	86	1977	21	54.2	1995	11	1949	14	44.1	1979	449	0	.0	.0	26.1	.2	11.1	.0
Mar	68.0	37.8	52.9	91+	1997	21	60.1	1972	14	1958	1	47.4	1973	382	7	.0	.1	30.1	.0	5.9	.0
Apr	75.3	42.1	58.7	98	1996	27	66.0	1989	25+	1999	10	50.6	1975	229	39	.0	1.7	30.0	.0	1.3	.0
May	83.7	48.6	66.2	106	2000	24	73.6	1997	30	1953	2	58.7	1977	100	137	.4	7.4	31.0	.0	@	.0
Jun	93.4	55.0	74.2	111+	1994	29	79.6	1981	36	1988	7	69.2	1998	7	284	5.7	19.6	30.0	.0	.0	.0
Jul	99.1	60.8	80.0	113	1995	30	83.9	1996	36	1987	18	73.0	1987	0	464	12.8	27.5	31.0	.0	.0	.0
Aug	98.4	60.7	79.6	112+	1998	7	83.0	1998	42	1957	31	73.5	1976	0	451	11.4	27.3	31.0	.0	.0	.0
Sep	92.1	55.4	73.8	109	1950	3	78.0	1984	32	1948	26	67.1	1986	11	273	3.8	18.8	30.0	.0	.0	.0
Oct	81.2	45.2	63.2	101+	1980	5	69.2	1988	21	1971	30	57.2	1971	133	77	.3	5.4	31.0	.0	.8	.0
Nov	68.4	35.4	51.9	88	1980	6	58.7	1995	8	1964	19	45.3	1994	395	3	.0	.0	29.4	.0	10.6	.0
Dec	60.1	30.1	45.1	85	1958	5	51.3	1977	6	1990	23	39.5	1990	617	0	.0	.0	27.0	@	20.7	.0
Ann	78.6	44.8	61.7	113	Jul 1995	30	83.9	Jul 1996	-1	Jan 1949	17	39.5	Dec 1990	2929	1735	34.4	107.8	353.4	.2	68.9	.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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**Lon: 117°18W**

### 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	1.11	.85	1.74	1952	18	4.72	1993	.00+	1984	4.9	2.7	.7	.2	.00	.00	.14	.30	.49	.72	.99	1.35	1.85	2.71	3.57	
Feb	1.18	.52	3.00	1998	24	5.39	1998	.00+	1997	4.3	2.4	.7	.3	.00	.00	.10	.25	.44	.68	.98	1.39	1.99	3.03	4.10	
Mar	1.14	.65	2.68	1983	2	4.80	1983	.00+	1989	4.7	2.4	.7	.2	.00	.00	.08	.21	.39	.62	.92	1.32	1.91	2.96	4.04	
Apr	.31	.10	.76	1965	10	1.12	1982	.00+	1997	2.0	1.0	.1	.0	.00	.00	.00	.01	.05	.12	.21	.34	.53	.87	1.22	
May	.23	.08	1.06	1977	9	1.35	1977	.00+	2000	1.4	.5	.2	@	.00	.00	.00	.01	.04	.09	.16	.26	.39	.64	.90	
Jun	.06	.00	.64	1993	6	.85	1993	.00+	2000	.5	.1	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.06	.20	.39	
Jul	.16	.00	.98	1999	12	1.45	1984	.00+	2000	1.0	.5	.1	.0	.00	.00	.00	.00	.00	.00	.00	.07	.23	.56	.91	
Aug	.25	.07	1.32	1977	17	1.43	1977	.00+	1999	1.5	.6	.1	@	.00	.00	.00	.00	.02	.07	.15	.26	.44	.76	1.10	
Sep	.33	.07	2.33	1976	11	3.62	1976	.00+	2000	1.3	.7	.2	.1	.00	.00	.00	.00	.00	.04	.14	.30	.56	1.03	1.52	
Oct	.26	.13	1.09	1976	22	1.20	1983	.00+	1999	1.5	.7	.1	@	.00	.00	.00	.00	.03	.09	.17	.28	.45	.74	1.05	
Nov	.36	.19	1.79	1954	11	2.34	1985	.00+	2000	2.0	1.0	.2	@	.00	.00	.00	.01	.08	.16	.27	.42	.62	.99	1.36	
Dec	.81	.51	1.70	1997	6	4.36	1984	.00+	2000	3.2	1.9	.5	.1	.00	.00	.00	.07	.19	.37	.60	.92	1.40	2.26	3.15	
Ann	6.20	5.76	3.00	Feb 1998	24	5.39	Feb 1998	.00+	Dec 2000	28.3	14.5	3.6	.9	2.08	2.67	3.52	4.25	4.95	5.66	6.45	7.36	8.54	10.36	12.04	

+ 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:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

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NWS Call Sign:

Elevation: 2,858 Feet

Lat: 34° 32N

Lon: 117° 18W

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	.8	.0	0	0	17.0	1974	5	17.0	1974	17	1974	5	1	1974	@	@	@	@	@	@	@	@	@
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	#	1971	7	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	.0	N/A	N/A	17.0	Jan 1974	5	17.0	Jan 1974	17	Jan 1974	5	1	Jan 1974	@	@	@	@	@	@	@	@	@

+ 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>	5/25	5/15	5/07	5/01	4/25	4/19	4/13	4/05	3/26
<b>32</b>	4/24	4/16	4/11	4/06	4/02	3/29	3/24	3/19	3/11
<b>28</b>	3/31	3/22	3/15	3/10	3/05	2/28	2/22	2/16	2/07
<b>24</b>	3/07	2/25	2/17	2/11	2/05	1/30	1/23	1/16	1/05
<b>20</b>	2/11	1/30	1/21	1/13	1/05	12/27	12/13	0/00	0/00
<b>16</b>	1/18	1/05	12/24	12/06	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>	10/08	10/13	10/17	10/20	10/23	10/26	10/29	11/02	11/07
<b>32</b>	10/22	10/26	10/29	11/01	11/03	11/05	11/08	11/11	11/15
<b>28</b>	10/31	11/06	11/09	11/13	11/16	11/19	11/22	11/26	12/01
<b>24</b>	11/09	11/16	11/22	11/26	11/30	12/05	12/09	12/14	12/22
<b>20</b>	12/02	12/09	12/14	12/19	12/24	12/30	1/09	0/00	0/00
<b>16</b>	12/10	12/25	1/09	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>	211	200	193	186	180	174	168	161	150
<b>32</b>	239	231	225	219	214	209	204	198	189
<b>28</b>	284	274	267	261	255	250	243	236	226
<b>24</b>	335	321	311	304	297	290	282	274	262
<b>20</b>	>365	>365	>365	>365	>365	346	331	317	300
<b>16</b>	>365	>365	>365	>365	>365	>365	>365	>365	348

\* 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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**Elevation: 2,858 Feet**

**Lat: 34° 32N**

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### Degree Days to Selected Base Temperatures (°F)

Base	Heating Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below 65	606	449	382	229	100	7	0	0	11	133	395	617	2929
60	451	310	247	134	44	1	0	0	2	60	258	462	1969
57	363	232	178	89	24	0	0	0	0	33	186	376	1481
55	304	183	140	64	15	0	0	0	0	20	144	319	1189
50	175	86	64	23	4	0	0	0	0	4	65	192	613
32	2	0	0	0	0	0	0	0	0	0	0	5	7

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above 32	419	475	648	800	1060	1267	1487	1474	1252	966	598	411	10857
55	9	14	75	174	362	577	774	761	562	273	52	12	3645
57	5	7	51	139	308	517	712	699	502	224	33	7	3204
60	0	1	27	94	235	428	619	606	414	159	15	1	2599
65	0	0	7	39	137	284	464	451	273	77	3	0	1735
70	0	0	1	13	65	160	312	299	154	28	0	0	1032

### 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	187	270	393	543	788	1011	1223	1207	995	707	355	187	187	457	850	1393	2181	3192	4415	5622	6617	7324	7679	7866
45	85	147	250	396	633	861	1068	1052	845	552	221	82	85	232	482	878	1511	2372	3440	4492	5337	5889	6110	6192
50	28	64	135	261	479	711	913	897	695	400	116	23	28	92	227	488	967	1678	2591	3488	4183	4583	4699	4722
55	3	21	56	150	335	562	758	742	545	264	47	0	3	24	80	230	565	1127	1885	2627	3172	3436	3483	3483
60	0	0	15	68	207	414	603	587	406	144	10	0	0	0	15	83	290	704	1307	1894	2300	2444	2454	2454
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	149	199	272	359	493	608	732	728	613	461	272	161	149	348	620	979	1472	2080	2812	3540	4153	4614	4886	5047

(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)