

Climatology of the United States

No. 20

1971-2000

Station: BURBANK VALLEY PUMP PLNT, CA

COOP ID: 041194

Climate Division: CA 6

NWS Call Sign:

Elevation: 655 Feet Lat: 34° 11N

Lon: 118° 20W

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	67.5	42.0	54.8	92	1971	18	59.7	1986	22	1979	29	51.0	1979	320	1	.0	.1	30.9	.0	1.8	.0
Feb	69.5	44.3	56.9	92+	1986	26	61.3	1977	27+	1978	15	52.8	1998	232	5	.0	.4	28.0	.0	.6	.0
Mar	70.6	46.2	58.4	98	1988	26	62.4	1972	22	1980	7	53.3	1973	221	15	.0	.6	31.0	.0	1.1	.0
Apr	74.9	49.5	62.2	105	1989	6	67.0	1989	32	1978	5	56.4	1975	132	49	.2	2.0	30.0	.0	@	.0
May	77.5	54.2	65.9	107	1984	29	71.6	1984	39	1975	21	60.6	1998	77	104	.5	2.9	31.0	.0	.0	.0
Jun	83.2	58.3	70.8	111	1976	27	77.5	1981	43+	1971	1	65.7	1998	28	200	1.6	7.2	30.0	.0	.0	.0
Jul	88.9	62.1	75.5	108+	1978	15	79.8	1984	45	1979	2	70.8	1987	2	327	2.3	15.1	31.0	.0	.0	.0
Aug	89.9	62.4	76.2	111	1944	26	79.9	1994	46	1975	28	72.7	1989	0	347	2.6	16.9	31.0	.0	.0	.0
Sep	87.1	59.9	73.5	113	1971	12	81.0	1984	43	1941	26	66.9	1986	12	266	3.4	12.6	30.0	.0	.0	.0
Oct	81.5	53.6	67.6	108	1980	1	71.8	1999	33	1971	30	64.6+	1972	38	117	.7	6.6	31.0	.0	.0	.0
Nov	73.5	45.4	59.5	98+	1997	2	63.8	1976	29	1975	30	53.5	1994	187	20	.0	1.1	30.0	.0	.3	.0
Dec	67.9	41.3	54.6	92	1958	3	59.8	1980	22	1978	8	49.4	1971	326	4	.0	@	30.9	.0	2.2	.0
Ann	77.7	51.6	64.7	113	Sep 1971	12	81.0	Sep 1984	22+	Mar 1980	7	49.4	Dec 1971	1575	1455	11.3	65.5	364.8	.0	6.0	.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: 1939-2001

(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	Median	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	3.56	2.49	7.76	1943	22	15.92	1995	.00+	1984	6.6	5.0	2.3	1.3	.00	.00	.39	.89	1.48	2.21	3.11	4.29	5.96	8.86	11.79
Feb	4.29	2.58	4.50	1993	8	15.52	1998	.00	1984	6.3	4.8	2.6	1.4	.03	.17	.58	1.11	1.77	2.59	3.64	5.05	7.08	10.65	14.29
Mar	3.88	2.86	5.45	1983	1	12.87	1978	.00+	1997	6.7	4.5	2.5	1.2	.00	.15	.64	1.19	1.83	2.59	3.52	4.71	6.40	9.29	12.18
Apr	1.02	.58	2.30+	2000	18	5.47	1983	.00+	1997	3.2	2.1	.6	.3	.00	.00	.00	.14	.32	.55	.84	1.22	1.76	2.71	3.67
May	.37	.06	2.29	1977	8	4.37	1998	.00+	2000	1.6	.6	.2	.1	.00	.00	.00	.00	.00	.04	.12	.28	.57	1.05	1.71
Jun	.12	.00	1.01	1993	5	1.04	1993	.00+	2000	.6	.2	.1	@	.00	.00	.00	.00	.00	.00	.00	.01	.12	.39	.71
Jul	.02	.00	.18	1992	12	.21	1986	.00+	2000	.3	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.13
Aug	.18	.00	2.86	1977	17	2.97	1977	.00+	1999	.6	.3	.1	@	.00	.00	.00	.00	.00	.00	.00	.00	.10	.55	1.12
Sep	.30	.01	1.43	1976	10	3.39	1976	.00+	1999	1.2	.6	.2	.1	.00	.00	.00	.00	.00	.00	.04	.18	.44	1.00	1.62
Oct	.55	.20	1.63	1983	1	4.26	1987	.00+	1999	2.2	1.2	.3	.2	.00	.00	.00	.04	.12	.23	.39	.61	.94	1.55	2.18
Nov	1.05	.78	5.28	1970	29	3.54	1982	.00+	2000	2.8	1.8	.8	.2	.00	.00	.06	.24	.44	.67	.95	1.30	1.79	2.60	3.45
Dec	2.15	1.24	5.30	1965	29	6.72	1971	.00+	2000	4.3	3.1	1.4	.7	.00	.00	.24	.54	.90	1.34	1.89	2.60	3.61	5.36	7.13
Ann	17.49	15.96	7.76	Jan 1943	22	15.92	Jan 1995	.00+	Dec 2000	36.4	24.3	11.1	5.5	5.05	6.71	9.21	11.38	13.50	15.71	18.15	21.02	24.74	30.58	36.00

+ 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: 1939-2001

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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	#	1979	2	#	1979	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	N/A	N/A	#	Feb 1979	2	#	Feb 1979	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	4/09	3/26	3/16	3/07	2/27	2/18	2/09	1/30	1/16
32	3/17	2/27	2/13	2/01	1/21	1/08	12/23	11/23	0/00
28	2/13	1/22	12/29	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	11/07	11/15	11/21	11/26	12/01	12/05	12/10	12/16	12/25
32	11/20	12/01	12/09	12/16	12/23	12/31	1/11	0/00	0/00
28	12/20	1/11	2/10	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	335	315	300	288	276	265	253	238	218
32	>365	>365	>365	>365	345	317	297	278	254
28	>365	>365	>365	>365	>365	>365	>365	>365	339
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

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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	320	232	221	132	77	28	2	0	12	38	187	326	1575
60	180	116	111	55	23	7	0	0	0	6	89	189	776
57	113	68	64	26	10	2	0	0	0	1	49	123	456
55	78	42	39	15	5	0	0	0	0	0	30	89	298
50	19	8	9	2	0	0	0	0	0	0	6	27	71
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above													
32	704	698	818	907	1050	1163	1348	1369	1245	1102	824	701	11929
55	69	96	144	232	342	473	635	656	555	389	163	77	3831
57	42	66	107	183	284	414	573	594	495	328	122	49	3257
60	16	30	61	122	205	329	480	501	405	240	72	21	2482
65	1	5	15	49	104	200	327	347	266	117	20	4	1455
70	0	0	2	13	37	104	186	200	149	40	3	0	734

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	469	499	575	678	814	933	1108	1129	1027	874	594	464	469	968	1543	2221	3035	3968	5076	6205	7232	8106	8700	9164
45	316	356	420	528	659	783	953	974	877	719	444	310	316	672	1092	1620	2279	3062	4015	4989	5866	6585	7029	7339
50	174	221	270	380	504	633	798	819	727	564	294	171	174	395	665	1045	1549	2182	2980	3799	4526	5090	5384	5555
55	68	103	135	241	349	484	643	664	577	409	163	66	68	171	306	547	896	1380	2023	2687	3264	3673	3836	3902
60	18	33	54	119	202	334	488	509	427	258	63	13	18	51	105	224	426	760	1248	1757	2184	2442	2505	2518
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	294	303	349	411	499	597	722	735	654	544	375	295	294	597	946	1357	1856	2453	3175	3910	4564	5108	5483	5778

(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