

Climatology of the United States

No. 20

1971-2000

Station: PRIEST VALLEY, CA

COOP ID: 047150

Climate Division: CA 4

NWS Call Sign:

Elevation: 2,300 Feet Lat: 36° 11N

Lon: 120° 42W

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	56.7	29.8	43.3	79	1976	17	49.1	1986	5	1960	1	38.7	1972	674	0	.0	.0	26.4	.0	21.2	.0
Feb	59.0	32.2	45.6	81	1986	28	50.6	1995	11	1950	2	41.7+	1990	543	0	.0	.0	25.9	.2	16.0	.0
Mar	62.1	33.9	48.0	86	1966	31	52.2	1972	13	1977	14	42.5	1977	527	0	.0	.0	29.8	.0	14.1	.0
Apr	69.1	34.9	52.0	98	1989	8	56.1	1992	17	1976	1	45.8	1975	391	1	.0	.2	29.6	.0	11.0	.0
May	77.5	39.8	58.7	105	2001	31	65.9	1997	22+	1964	4	52.9	1998	226	30	.1	3.7	31.0	.0	4.1	.0
Jun	87.0	44.9	66.0	110	1972	30	70.9	1981	29+	1999	7	61.8	1998	61	90	2.0	12.6	30.0	.0	.4	.0
Jul	93.4	49.6	71.5	113	1972	14	75.9	1996	33	1975	30	66.6	1987	10	212	6.0	23.0	31.0	.0	.0	.0
Aug	92.9	49.2	71.1	111	1998	4	74.8	1996	33+	1968	26	66.4	1976	9	197	5.6	22.2	31.0	.0	.0	.0
Sep	87.7	45.5	66.6	108+	1988	4	71.0	1984	26+	1948	27	60.0	1986	59	107	1.7	13.9	30.0	.0	.2	.0
Oct	77.5	38.6	58.1	103+	1980	3	62.7	1991	17	1971	30	54.3	1981	233	16	.2	3.7	31.0	.0	5.4	.0
Nov	63.7	31.7	47.7	90	1997	3	53.9	1995	12	1961	18	42.3	1994	519	0	.0	@	29.3	.0	18.0	.0
Dec	57.1	28.1	42.6	83+	1958	4	47.9	1977	2	1990	22	36.6	1990	694	0	.0	.0	26.7	@	23.3	.0
Ann	73.6	38.2	55.9	113	Jul 1972	14	75.9	Jul 1996	2	Dec 1990	22	36.6	Dec 1990	3946	653	15.6	79.3	351.7	.2	113.7	.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: 1948-2001

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

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: PRIEST VALLEY, CA

COOP ID: 047150

Climate Division: CA 4

NWS Call Sign:

Elevation: 2,300 Feet Lat: 36°11N

Lon: 120°42W

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	4.37	3.35	5.05	1995	24	14.70	1995	.03	1976	8.6	6.8	3.2	1.2	.22	.46	.97	1.55	2.23	3.03	4.00	5.26	7.04	10.08	13.13
Feb	4.07	2.94	3.25	1969	24	12.02	1998	.07	1997	8.2	6.5	3.1	1.3	.19	.40	.86	1.40	2.03	2.78	3.70	4.89	6.57	9.47	12.37
Mar	4.00	3.24	5.05	1995	10	13.29	1991	.00	1972	8.7	6.5	2.9	1.1	.08	.32	.83	1.39	2.03	2.78	3.69	4.86	6.50	9.29	12.07
Apr	1.32	.87	2.83	1958	3	4.47+	1983	.00+	1997	4.6	3.0	.8	.2	.00	.06	.24	.43	.65	.91	1.22	1.61	2.17	3.11	4.05
May	.49	.09	1.70	1998	5	4.37	1998	.00+	1997	2.1	1.4	.2	@	.00	.00	.00	.00	.02	.10	.24	.46	.82	1.49	2.20
Jun	.10	.00	.42	1995	15	.53	1995	.00+	1999	.7	.4	.0	.0	.00	.00	.00	.00	.00	.00	.05	.12	.20	.33	.45
Jul	.06	.00	1.00	1966	30	.88	1992	.00+	2000	.3	.2	@	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17	.39
Aug	.09	.00	1.35	1976	19	1.60	1976	.00+	2000	.5	.2	@	@	.00	.00	.00	.00	.00	.00	.00	.00	.06	.27	.54
Sep	.46	.11	2.10	1976	29	4.88	1976	.00+	2000	1.4	1.0	.3	.1	.00	.00	.00	.00	.00	.07	.22	.44	.79	1.44	2.14
Oct	1.08	.91	2.15	1996	29	2.99	1996	.00+	1999	2.8	2.0	1.0	.2	.00	.00	.00	.17	.38	.63	.93	1.32	1.87	2.82	3.77
Nov	2.00	1.46	2.22	1978	21	6.17	1972	.00+	2000	5.2	3.8	1.7	.3	.00	.06	.29	.56	.89	1.28	1.77	2.40	3.31	4.88	6.46
Dec	2.96	2.63	5.10	1966	6	9.01	1996	.00	1989	6.7	4.5	1.9	.8	.10	.32	.73	1.16	1.63	2.17	2.81	3.62	4.75	6.63	8.49
Ann	21.00	20.55	5.10	Dec 1966	6	14.70	Jan 1995	.00+	Nov 2000	49.8	36.3	15.1	5.2	9.48	11.34	13.92	16.01	17.96	19.92	22.02	24.42	27.44	32.03	36.16

+ 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/normals/usnormals.html

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Station: PRIEST VALLEY, CA

COOP ID: 047150

Climate Division: CA 4

NWS Call Sign:

Elevation: 2,300 Feet

Lat: 36° 11N

Lon: 120° 42W

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	.9	.0	0	0	10.0	1974	4	15.0	1974	0	0	0	0	0	.3	.2	.1	.1	@	.0	.0	.0	.0
Feb	.3	.0	#	0	3.5	1976	5	3.5	1976	#+	1996	26	#+	1996	.1	.1	@	.0	.0	.0	.0	.0	.0
Mar	.3	.0	#	0	4.0	1976	2	4.0	1976	1	1975	13	#+	1976	.2	.1	@	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.8	1982	1	.8	1982	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	.1	.0	0	0	2.5	1978	11	2.5	1978	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	2.0	1984	18	2.0+	1987	4+	1988	15	#+	1988	.1	.1	.0	.0	.0	.0	.0	.0	.0
Ann	1.8	.0	N/A	N/A	10.0	Jan 1974	4	15.0	Jan 1974	4+	Dec 1988	15	#+	Feb 1996	.7	.5	.1	.1	@	.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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Lat: 36° 11N

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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	7/06	6/28	6/22	6/17	6/12	6/07	6/02	5/27	5/19
32	6/11	6/04	5/30	5/26	5/22	5/18	5/13	5/08	5/01
28	5/26	5/16	5/09	5/03	4/28	4/22	4/16	4/09	3/30
24	4/23	4/07	3/26	3/17	3/08	2/26	2/17	2/05	1/20
20	3/15	2/28	2/17	2/08	1/30	1/21	1/11	12/30	12/12
16	2/19	2/03	1/22	1/11	12/30	12/16	11/21	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	9/09	9/16	9/21	9/25	9/29	10/03	10/07	10/12	10/19
32	9/26	10/02	10/06	10/10	10/13	10/17	10/20	10/25	10/31
28	10/09	10/16	10/21	10/25	10/29	11/01	11/05	11/10	11/17
24	10/27	11/03	11/08	11/12	11/16	11/20	11/24	11/29	12/06
20	11/05	11/16	11/23	11/30	12/06	12/12	12/19	12/27	1/08
16	11/24	12/04	12/13	12/20	12/28	1/07	1/24	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	135	126	119	114	108	103	98	91	82
32	172	162	155	149	144	138	132	125	116
28	220	208	198	190	183	176	168	158	146
24	299	283	272	262	253	243	234	222	206
20	>365	354	329	315	304	294	283	272	256
16	>365	>365	>365	>365	>365	344	324	308	290

* 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)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	674	543	527	391	226	61	10	9	59	233	519	694	3946
60	519	403	376	252	125	17	0	0	16	120	370	539	2737
57	426	319	290	178	79	6	0	0	6	70	283	446	2103
55	364	265	236	136	55	3	0	0	3	46	230	384	1722
50	223	142	127	58	17	0	0	0	0	11	116	242	936
32	3	0	0	0	0	0	0	0	0	0	0	5	8

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	351	381	496	601	826	1019	1226	1211	1038	807	471	334	8761
55	0	2	19	47	168	331	513	498	350	139	11	0	2078
57	0	0	11	28	130	274	451	436	294	102	5	0	1731
60	0	0	4	12	83	195	358	344	214	58	1	0	1269
65	0	0	0	1	30	90	212	197	107	16	0	0	653
70	0	0	0	0	8	27	98	84	38	3	0	0	258

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	147	194	266	369	589	787	991	972	806	567	253	137	147	341	607	976	1565	2352	3343	4315	5121	5688	5941	6078
45	56	84	133	227	435	637	836	817	656	413	130	44	56	140	273	500	935	1572	2408	3225	3881	4294	4424	4468
50	5	22	46	110	287	488	681	662	506	264	50	2	5	27	73	183	470	958	1639	2301	2807	3071	3121	3123
55	0	0	2	32	160	341	526	507	356	141	10	0	0	0	2	34	194	535	1061	1568	1924	2065	2075	2075
60	0	0	0	4	70	205	372	352	217	55	0	0	0	0	0	4	74	279	651	1003	1220	1275	1275	1275
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	138	156	203	296	424	510	587	583	514	423	223	145	138	294	497	793	1217	1727	2314	2897	3411	3834	4057	4202

(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 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