

Climatology of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: STONY GORGE RESERVOIR, CA

1971-2000

COOP ID: 048587

Climate Division: CA 2

NWS Call Sign:

Elevation: 800 Feet

Lat: 39° 35N

Lon: 122° 32W

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	55.5	33.2	44.4	79	1994	18	48.0	1984	16	1950	3	39.9	1973	639	0	.0	.0	24.6	.0	16.0	.0
Feb	59.3	36.1	47.7	81	1977	15	53.0	1991	14	1989	8	43.5	1994	484	0	.0	.0	25.5	.2	7.9	.0
Mar	63.1	38.5	50.8	87	1960	23	55.0	1972	21	1975	24	47.1	1977	441	0	.0	.0	29.8	.0	4.6	.0
Apr	70.1	41.7	55.9	94	1987	27	62.3	1987	27+	1972	13	49.5	1975	288	15	.0	.4	29.8	.0	1.3	.0
May	79.4	48.1	63.8	106	1950	30	70.1	1992	28	1950	3	55.1	1998	135	97	.3	5.2	31.0	.0	.1	.0
Jun	88.7	55.5	72.1	113	1950	29	77.5	1977	37	1952	12	66.5	1980	18	232	3.8	14.7	30.0	.0	.0	.0
Jul	95.3	60.4	77.9	116	1972	16	83.2	1988	47+	1983	19	73.1	1983	1	399	8.8	24.6	31.0	.0	.0	.0
Aug	94.1	58.7	76.4	115+	1990	7	79.4	1971	46	1991	28	70.9	1976	0	354	7.5	22.8	31.0	.0	.0	.0
Sep	88.9	53.8	71.4	114	1988	4	77.1	1991	36	1950	30	66.0	1986	18	210	3.1	15.9	30.0	.0	.0	.0
Oct	78.5	46.1	62.3	104+	2001	2	68.6	1991	26+	1971	31	58.3	1984	151	67	.7	4.6	31.0	.0	.2	.0
Nov	63.3	37.2	50.3	89+	1967	1	55.8	1976	22+	1993	26	42.8	1994	445	2	.0	.0	28.6	@	7.3	.0
Dec	55.9	32.4	44.2	80+	1980	16	47.7	1980	9	1990	23	37.6	1972	648	0	.0	.0	24.5	.1	17.1	.0
Ann	74.3	45.1	59.8	116	Jul 1972	16	83.2	Jul 1988	9	Dec 1990	23	37.6	Dec 1972	3268	1376	24.2	88.2	346.8	.3	54.5	.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

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Elevation: 800 Feet Lat: 39°35N

Lon: 122°32W

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	4.50	3.47	5.04	1995	9	20.21	1995	.10	1976	11.3	7.4	2.8	1.3	.20	.43	.95	1.54	2.23	3.06	4.08	5.40	7.27	10.49	13.72
Feb	3.86	2.43	3.44	1998	3	16.52	1998	.02	1971	9.9	6.3	2.8	1.1	.14	.32	.73	1.22	1.81	2.53	3.43	4.60	6.27	9.17	12.11
Mar	3.24	2.81	3.26	1995	9	11.08	1983	.10	1972	10.1	6.2	2.1	.7	.30	.52	.96	1.41	1.90	2.46	3.12	3.95	5.09	6.99	8.85
Apr	1.11	1.01	1.73	1955	21	3.47	1983	.01	1973	5.5	2.9	.6	.1	.06	.13	.26	.41	.58	.78	1.03	1.34	1.78	2.53	3.27
May	.86	.40	2.02	1998	29	5.28	1998	.00+	1976	4.5	2.2	.4	.1	.00	.01	.07	.17	.30	.47	.69	.99	1.44	2.24	3.06
Jun	.45	.18	1.90	1967	2	2.73	1998	.00+	1994	1.9	1.1	.3	.1	.00	.00	.00	.00	.06	.16	.30	.50	.78	1.29	1.82
Jul	.11	.00	.80	1992	1	.84	1974	.00+	1999	.6	.3	.1	.0	.00	.00	.00	.00	.00	.00	.00	.05	.15	.37	.62
Aug	.22	.00	1.46+	1976	15	4.20	1976	.00+	2000	.8	.5	.1	.1	.00	.00	.00	.00	.00	.00	.00	.02	.18	.70	1.23
Sep	.30	.11	2.02	1989	17	3.14	1989	.00+	1999	1.9	.8	.2	@	.00	.00	.00	.00	.03	.10	.19	.32	.52	.89	1.28
Oct	1.18	.86	2.12	1957	9	3.41	1982	.00+	1995	4.3	2.4	.8	.3	.00	.08	.26	.44	.64	.86	1.13	1.46	1.92	2.70	3.46
Nov	2.41	1.76	2.95	1983	11	8.17	1983	.00	1995	8.8	5.1	1.6	.4	.03	.16	.43	.76	1.14	1.60	2.16	2.90	3.94	5.73	7.54
Dec	3.07	3.01	2.69	1960	1	10.30	1983	.00	1989	10.2	5.7	2.2	.8	.13	.39	.84	1.28	1.77	2.32	2.96	3.77	4.88	6.73	8.54
Ann	21.31	19.46	5.04	Jan 1995	9	20.21	Jan 1995	.00+	Aug 2000	69.8	40.9	14.0	5.0	8.69	10.64	13.40	15.68	17.82	19.99	22.34	25.04	28.46	33.70	38.46

+ 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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Climate Division: CA 2

NWS Call Sign:

Elevation: 800 Feet

Lat: 39°35N

Lon: 122°32W

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	6.5	1974	4	11.0	1974	9	1973	9	1+	1974	.3	.2	.1	@	.0	.2	.2	.1	.0
Feb	.3	.0	#	0	6.0	1975	1	6.0	1975	4	1975	1	#	1975	@	@	@	@	.0	.1	@	.0	.0
Mar	.1	.0	#	0	1.0	1977	16	1.0	1977	1	1977	16	#	1977	.1	.1	.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	#	1978	12	#	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	3.0	1972	6	3.0	1972	3	1972	6	#	1972	@	@	@	.0	.0	.1	@	.0	.0
Ann	1.3	.0	N/A	N/A	6.5	Jan 1974	4	11.0	Jan 1974	9	Jan 1973	9	1+	Jan 1974	.4	.3	.1	@	.0	.4	.2	.1	.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

Complete documentation available from:

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Climate Division: CA 2

NWS Call Sign:

Elevation: 800 Feet

Lat: 39°35N

Lon: 122°32W

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	5/19	5/11	5/05	4/30	4/25	4/21	4/16	4/10	4/02
32	4/29	4/20	4/14	4/09	4/04	3/30	3/25	3/18	3/10
28	3/30	3/18	3/09	3/01	2/22	2/14	2/07	1/29	1/16
24	2/25	2/11	2/01	1/23	1/15	1/05	12/24	12/02	0/00
20	1/18	1/07	12/23	0/00	0/00	0/00	0/00	0/00	0/00
16	12/26	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	10/12	10/17	10/21	10/25	10/28	10/31	11/04	11/08	11/13
32	10/31	11/05	11/08	11/11	11/14	11/16	11/19	11/23	11/27
28	11/07	11/15	11/20	11/25	11/30	12/04	12/09	12/15	12/23
24	11/21	12/03	12/13	12/21	12/29	1/08	1/20	0/00	0/00
20	12/23	1/08	1/29	0/00	0/00	0/00	0/00	0/00	0/00
16	1/05	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	217	206	198	191	185	179	172	164	153
32	256	245	237	230	223	217	210	202	191
28	327	311	300	290	280	271	261	249	233
24	>365	>365	>365	>365	357	338	323	308	289
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

Complete documentation available from:

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Climate Division: CA 2

NWS Call Sign:

Elevation: 800 Feet Lat: 39°35N Lon: 122°32W

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	639	484	441	288	135	18	1	0	18	151	445	648	3268
60	484	344	293	171	65	4	0	0	3	73	305	493	2235
57	391	265	211	116	37	1	0	0	1	42	230	401	1695
55	329	214	163	86	24	0	0	0	0	27	185	342	1370
50	184	107	73	30	7	0	0	0	0	7	95	205	708
32	0	0	0	0	0	0	0	0	0	0	0	1	1

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	384	440	582	717	985	1204	1421	1377	1182	939	547	377	10155
55	0	10	32	112	296	514	708	664	492	253	43	4	3128
57	0	5	18	83	247	455	646	602	432	205	27	2	2722
60	0	0	7	47	182	367	553	509	345	143	13	0	2166
65	0	0	0	15	97	232	399	354	210	67	2	0	1376
70	0	0	0	3	40	124	255	207	103	23	0	0	755

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	163	239	344	487	748	973	1183	1138	950	700	318	159	163	402	746	1233	1981	2954	4137	5275	6225	6925	7243	7402
45	63	118	200	338	593	823	1028	983	800	546	183	55	63	181	381	719	1312	2135	3163	4146	4946	5492	5675	5730
50	9	46	86	202	439	673	873	828	650	393	83	12	9	55	141	343	782	1455	2328	3156	3806	4199	4282	4294
55	0	4	27	96	293	524	718	673	500	250	27	0	0	4	31	127	420	944	1662	2335	2835	3085	3112	3112
60	0	0	0	35	173	378	563	518	355	135	5	0	0	0	0	35	208	586	1149	1667	2022	2157	2162	2162
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	111	150	215	311	464	602	725	695	580	443	209	116	111	261	476	787	1251	1853	2578	3273	3853	4296	4505	4621

(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/normals/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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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