U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: EAST PARK RESERVOIR, CA **COOP ID: 042640**

Climate Division: CA 2 **NWS Call Sign:** **Elevation: 1,205 Feet** **Lat: 39˚22N** **Lon: 122˚31W**

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	55.4	31.6	43.5	77+	1962	9	47.8	1984	10	1974	9	37.9	1982	666	0	.0	.0	25.2	.0	19.4	.0
Feb	58.6	34.7	46.7	80	1977	15	51.6	1991	16	1989	6	43.6	1994	514	0	.0	.0	25.4	.2	11.0	.0
Mar	62.1	37.3	49.7	86	1988	27	54.0	1972	20	1996	30	44.9	1982	474	0	.0	.0	29.7	.0	7.0	.0
Apr	68.6	40.3	54.5	91+	1954	18	59.3	1977	26+	1999	9	48.3	1975	322	6	.0	.1	29.8	.0	2.2	.0
May	77.3	46.5	61.9	104	1950	30	67.3	1992	28	1950	3	54.5	1998	160	64	.1	3.6	31.0	.0	.2	.0
Jun	86.3	53.6	70.0	111+	1961	16	75.0	1977	35	1972	11	64.2	1980	25	173	2.1	12.0	30.0	.0	.0	.0
Jul	92.9	59.0	76.0	115	1988	20	80.9	1988	43+	1983	18	69.8	1983	3	341	6.1	21.8	31.0	.0	.0	.0
Aug	92.1	57.0	74.6	114	1990	7	77.2	1996	41	1982	26	69.2	1976	1	297	4.8	20.8	31.0	.0	.0	.0
Sep	87.0	51.7	69.4	110+	1988	6	73.5	1991	35	1950	30	63.9	1986	29	159	1.8	13.2	30.0	.0	.0	.0
Oct	77.1	43.9	60.5	102	2001	2	65.7	1991	25+	1971	31	55.8	1982	180	41	.3	3.4	31.0	.0	1.0	.0
Nov	62.9	36.5	49.7	89+	1967	2	55.5	1995	17	1977	19	43.1	1994	461	1	.0	.0	28.8	.0	8.9	.0
Dec	56.1	31.1	43.6	80	1958	12	48.4	1983	12+	1990	24	37.4	1972	663	0	.0	.0	26.3	.2	18.7	.0
Ann	73.0	43.6	58.3	115	Jul 1988	20	80.9	Jul 1988	10	Jan 1974	9	37.4	Dec 1972	3498	1082	15.2	74.9	349.2	.4	68.4	.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/normals/usnormals.html

(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

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	4.88	4.54	4.50	1982	4	19.61	1995	.17	1976
Feb	4.28	3.40	3.65	1998	3	18.86	1998	.01	1971
Mar	3.21	2.83	3.03	1995	9	10.13	1995	.05	1988
Apr	.99	.85	1.40	1983	28	4.14	1983	.00	1977
May	.69	.33	1.50	1996	16	4.06	1998	.00+	1999
Jun	.28	.10	1.14	1967	2	1.20	1992	.00+	1994
Jul	.06	.00	.53	1974	8	.53	1974	.00+	2000
Aug	.10	.00	.84	1968	21	.67	1997	.00+	2000
Sep	.28	.10	2.09	1989	16	3.28	1989	.00+	1999
Oct	1.06	.68	2.97	1957	10	3.03	1989	.00+	1995
Nov	2.61	2.13	2.54	1970	28	9.00	1983	.00	1995
Dec	3.26	2.82	3.38	1995	12	10.84	1983	.00	1989
Ann	21.70	19.98	4.50	Jan 1982	4	19.61	Jan 1995	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.4	7.7	3.7	1.5
Feb	8.5	6.7	3.3	1.1
Mar	8.7	6.7	2.3	.7
Apr	4.2	3.0	.5	.1
May	3.1	1.8	.3	.2
Jun	1.2	.8	.2	.0
Jul	.3	.2	@	.0
Aug	.6	.3	.1	.0
Sep	1.5	.8	.1	@
Oct	3.2	2.2	.7	.2
Nov	7.5	5.3	1.9	.5
Dec	7.7	5.7	2.4	.8
Ann	55.9	41.2	15.5	5.1

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.26	.53	1.12	1.77	2.52	3.41	4.49	5.88	7.83	11.17	14.50
Feb	.10	.25	.64	1.16	1.80	2.60	3.63	5.00	7.00	10.53	14.14
Mar	.18	.36	.75	1.18	1.68	2.26	2.96	3.87	5.14	7.30	9.46
Apr	.05	.13	.28	.42	.58	.75	.96	1.21	1.56	2.15	2.71
May	.00	.00	.00	.05	.17	.33	.53	.81	1.21	1.92	2.64
Jun	.00	.00	.00	.00	.00	.10	.21	.34	.52	.83	1.14
Jul	.00	.00	.00	.00	.00	.00	.00	.00	.05	.23	.41
Aug	.00	.00	.00	.00	.00	.00	.00	.06	.16	.34	.51
Sep	.00	.00	.00	.00	.03	.09	.18	.31	.50	.84	1.19
Oct	.00	.06	.22	.38	.56	.76	1.00	1.30	1.72	2.42	3.11
Nov	.04	.18	.49	.85	1.27	1.76	2.37	3.15	4.26	6.16	8.07
Dec	.12	.37	.84	1.31	1.83	2.42	3.12	4.00	5.22	7.25	9.25
Ann	8.31	10.33	13.21	15.61	17.88	20.20	22.71	25.61	29.31	34.99	40.18

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	2.7	.0	#	0	12.0	1973	9	22.0	1974	16	1974	4	2+	1982	.5	.5	.3	.2	.1	.5	.5	.3	.2
Feb	.7	.0	#	0	5.0	1975	1	5.0+	1994	2	1975	1	#	1975	.2	.2	.2	.1	.0	@	.0	.0	.0
Mar	.4	.0	#	0	6.0	1977	16	6.0	1977	6	1977	16	#+	1977	.1	.1	@	@	.0	.2	.1	@	.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	.5	.0	0	0	8.0	1977	21	11.0	1977	0	0	0	0	0	.1	.1	.1	@	.0	.0	.0	.0	.0
Dec	.4	.0	#	0	4.5	1983	23	8.5	1983	5	1971	27	1	1971	.1	.1	.1	.0	.0	@	.0	.0	.0
Ann	4.7	.0	N/A	N/A	12.0	Jan 1973	9	22.0	Jan 1974	16	Jan 1974	4	2+	Jan 1982	1.0	1.0	.7	.3	.1	.7	.6	.3	.2

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/28	5/20	5/14	5/09	5/04	4/30	4/25	4/19	4/11
32	5/10	5/02	4/26	4/21	4/16	4/11	4/06	4/01	3/24
28	4/17	4/04	3/26	3/18	3/10	3/03	2/23	2/14	2/01
24	3/14	3/01	2/19	2/11	2/03	1/26	1/18	1/08	12/26
20	2/15	1/30	1/17	1/04	12/20	11/24	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

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	10/03	10/10	10/15	10/19	10/23	10/27	11/01	11/06	11/12
32	10/17	10/23	10/28	11/01	11/04	11/08	11/11	11/16	11/22
28	11/04	11/09	11/13	11/16	11/18	11/21	11/24	11/28	12/02
24	11/15	11/24	12/01	12/06	12/11	12/16	12/22	12/28	1/06
20	11/30	12/17	12/31	1/14	2/01	0/00	0/00	0/00	0/00
16	12/31	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	207	194	186	178	171	164	156	148	135
32	235	224	215	208	201	195	187	179	167
28	291	278	268	260	252	245	236	227	213
24	>365	340	326	315	306	298	289	278	264
20	>365	>365	>365	>365	>365	>365	>365	348	329
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	666	514	474	322	160	25	3	1	29	180	461	663	3498
60	511	374	327	193	79	5	0	0	6	88	319	508	2410
57	418	292	245	130	45	1	0	0	2	51	241	416	1841
55	356	239	195	96	29	0	0	0	0	33	194	356	1498
50	212	121	100	34	8	0	0	0	0	8	99	215	797
32	0	0	0	0	0	0	0	0	0	0	0	2	2

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	357	410	549	674	927	1138	1361	1319	1120	884	530	362	9631
55	0	4	31	79	243	448	648	606	430	204	33	2	2728
57	0	1	19	53	197	389	586	544	372	160	20	1	2342
60	0	0	8	26	138	303	493	451	286	104	8	0	1817
65	0	0	0	6	64	173	341	297	159	41	1	0	1082
70	0	0	0	0	21	77	202	155	68	10	0	0	533

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	146	211	312	442	692	904	1124	1081	891	647	312	153	146	357	669	1111	1803	2707	3831	4912	5803	6450	6762	6915
45	53	97	172	295	537	754	969	926	741	492	172	52	53	150	322	617	1154	1908	2877	3803	4544	5036	5208	5260
50	4	27	71	166	383	604	814	771	591	341	77	8	4	31	102	268	651	1255	2069	2840	3431	3772	3849	3857
55	0	1	20	71	240	457	659	616	442	208	22	0	0	1	21	92	332	789	1448	2064	2506	2714	2736	2736
60	0	0	0	20	130	313	504	461	300	102	1	0	0	0	0	20	150	463	967	1428	1728	1830	1831	1831
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	109	142	198	290	434	562	693	659	554	425	210	123	109	251	449	739	1173	1735	2428	3087	3641	4066	4276	4399

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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