

Climatology of the United States

No. 20 1971-2000

Station: EL MIRAGE, CA

COOP ID: 042771

Climate Division: CA 7

NWS Call Sign:

Elevation: 2,950 Feet Lat: 34° 35N

Lon: 117° 38W

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	55.9	28.5	42.2	76	1975	26	47.5	2000	3	1974	3	37.1	1973	707	0	.0	.0	25.1	.0	21.5	.0
Feb	60.0	31.6	45.8	82+	1986	27	50.9	1995	5	1972	3	41.3	1979	538	0	.0	.0	25.8	.2	15.5	.0
Mar	64.2	35.5	49.9	88+	1972	8	56.1	1972	18	1985	4	43.3	1977	473	3	.0	.0	30.0	.0	9.2	.0
Apr	71.7	39.7	55.7	96	1972	28	62.7	1989	23+	1999	11	47.6	1975	304	26	.0	1.1	29.9	.0	3.6	.0
May	80.4	47.0	63.7	105	1972	29	72.2	1997	29	1978	6	56.3	1998	142	102	.4	6.5	31.0	.0	.3	.0
Jun	90.5	54.0	72.3	110+	1994	30	77.2	1981	32	1988	7	65.7	1998	19	236	4.8	18.8	30.0	.0	@	.0
Jul	96.9	58.7	77.8	112	1989	8	83.4	1996	41	1986	26	72.6	1983	0	397	11.6	28.6	31.0	.0	.0	.0
Aug	95.5	58.2	76.9	108+	1998	6	81.0	1996	41	1978	24	70.2	1976	2	369	9.8	26.5	31.0	.0	.0	.0
Sep	88.4	52.7	70.6	106	1971	15	74.1	1979	33	1982	30	64.3	1986	28	194	1.9	15.6	30.0	.0	.0	.0
Oct	77.1	43.1	60.1	98	1971	14	65.7	1988	14	1971	30	55.0	1971	195	43	.1	2.9	31.0	.0	1.8	.0
Nov	64.5	33.1	48.8	84+	1983	5	54.9	1995	14	1994	27	42.3	1994	486	0	.0	.0	29.1	.0	13.2	.0
Dec	56.3	27.1	41.7	80	1977	7	47.8	1977	1	1990	22	35.8	1990	722	0	.0	.0	25.8	@	24.0	.0
Ann	75.1	42.4	58.8	112	Jul 1989	8	83.4	Jul 1996	1	Dec 1990	22	35.8	Dec 1990	3616	1370	28.6	100.0	349.7	.2	89.1	.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: 1971-2001

(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	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	1.21	.80	2.18	1977	7	4.55	1993	.00+	1984	5.7	2.7	.7	.2	.00	.00	.21	.44	.66	.91	1.19	1.53	2.01	2.76	3.51
Feb	1.00	.50	2.45	1980	14	4.55	1998	.00+	1984	4.4	2.2	.5	.2	.00	.00	.07	.19	.35	.55	.81	1.16	1.68	2.59	3.53
Mar	1.01	.50	2.01	1983	2	3.54	1983	.00+	1997	5.2	2.7	.5	.1	.00	.01	.09	.21	.36	.56	.82	1.17	1.69	2.62	3.57
Apr	.24	.06	.61	1988	15	1.35	1982	.00+	1993	2.3	.7	.1	.0	.00	.00	.00	.01	.04	.09	.16	.26	.41	.69	.98
May	.25	.04	1.33	1998	8	2.10	1998	.00+	2000	1.4	.7	.1	@	.00	.00	.00	.00	.01	.06	.13	.25	.43	.77	1.14
Jun	.08	.00	.37	1999	2	.52	1993	.00+	2000	.7	.3	.0	.0	.00	.00	.00	.00	.00	.00	.01	.05	.13	.26	.39
Jul	.14	.03	.65	1984	29	.86	1984	.00+	2000	1.3	.5	.1	.0	.00	.00	.00	.00	.00	.02	.09	.16	.26	.42	.57
Aug	.39	.04	1.38	1977	17	1.88	1983	.00+	1999	1.6	.8	.3	.1	.00	.00	.00	.00	.00	.05	.16	.34	.65	1.23	1.85
Sep	.32	.09	1.58	1976	11	2.62	1976	.00+	2000	1.6	.7	.2	.1	.00	.00	.00	.00	.02	.07	.17	.31	.54	.97	1.42
Oct	.18	.08	.54	1987	23	.90	1987	.00+	1999	1.6	.7	@	.0	.00	.00	.00	.01	.04	.08	.13	.21	.31	.50	.69
Nov	.28	.21	1.13	1982	10	1.17	1982	.00+	2000	2.1	1.0	.1	@	.00	.00	.00	.00	.05	.13	.23	.35	.51	.79	1.07
Dec	.68	.49	1.38	1997	6	2.99	1984	.00+	2000	4.1	1.9	.3	.1	.00	.00	.02	.10	.20	.34	.53	.78	1.16	1.84	2.54
Ann	5.78	5.16	2.45	Feb 1980	14	4.55+	Feb 1998	.00+	Dec 2000	32.0	14.9	2.9	.8	1.56	2.11	2.94	3.67	4.39	5.14	5.97	6.95	8.24	10.25	12.14

+ 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: 1971-2001

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

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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	.9	.0	#	0	15.0	1974	5	15.0	1974	15	1974	5	1	1974	.3	.2	.1	.1	@	.1	@	@	@
Feb	.3	.0	#	0	2.6	1979	1	5.1	1979	3	1983	3	#+	1999	.3	.2	.0	.0	.0	.1	.0	.0	.0
Mar	.1	.0	#	0	2.0	1991	27	2.0	1991	1	1975	14	#+	1998	.3	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1980	1	#	1980	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	.5	1994	18	.5	1994	1	1985	11	#	1985	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.4	.0	#	0	2.0	1993	15	2.5	1987	5	1984	19	1	1984	.4	.2	.0	.0	.0	.1	.0	.0	.0
Ann	1.7	.0	N/A	N/A	15.0	Jan 1974	5	15.0	Jan 1974	15	Jan 1974	5	1+	Dec 1984	1.3	.7	.1	.1	@	.3	@	@	@

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

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-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	5/31	5/23	5/18	5/13	5/09	5/04	4/30	4/24	4/16
32	5/18	5/08	5/01	4/26	4/20	4/15	4/09	4/02	3/23
28	4/20	4/11	4/04	3/29	3/23	3/17	3/11	3/04	2/23
24	3/28	3/15	3/06	2/27	2/20	2/12	2/05	1/27	1/15
20	3/06	2/21	2/11	2/02	1/25	1/17	1/08	12/29	12/12
16	2/01	1/21	1/13	1/06	12/30	12/23	12/13	11/26	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	9/27	10/04	10/08	10/12	10/16	10/19	10/23	10/28	11/03
32	10/13	10/18	10/22	10/25	10/28	10/31	11/03	11/07	11/12
28	10/26	10/31	11/03	11/06	11/08	11/11	11/14	11/17	11/22
24	11/04	11/10	11/14	11/18	11/21	11/24	11/28	12/02	12/07
20	11/13	11/20	11/24	11/29	12/03	12/07	12/11	12/17	12/25
16	11/25	12/04	12/10	12/16	12/21	12/28	1/05	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	188	178	171	165	159	154	148	141	131
32	224	212	204	197	190	183	176	168	156
28	262	251	243	236	230	223	217	209	198
24	317	302	291	282	274	265	256	245	230
20	>365	351	328	316	306	297	288	278	264
16	>365	>365	>365	>365	356	341	330	320	307

* 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	707	538	473	304	142	19	0	2	28	195	486	722	3616
60	552	398	329	194	72	4	0	0	6	101	341	567	2564
57	459	315	251	141	43	1	0	0	2	61	260	474	2007
55	403	263	204	111	29	0	0	0	1	41	210	417	1679
50	262	143	111	51	10	0	0	0	0	11	108	276	972
32	12	0	0	0	0	0	0	0	0	0	0	14	26

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	328	386	553	712	983	1207	1420	1390	1156	871	504	315	9825
55	6	5	44	133	299	517	707	677	466	199	24	5	3082
57	0	1	29	103	251	458	645	615	408	157	14	0	2681
60	0	0	14	65	187	371	552	522	322	104	5	0	2142
65	0	0	3	26	102	236	397	369	194	43	0	0	1370
70	0	0	0	8	44	126	252	228	96	13	0	0	767

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	143	219	340	496	755	986	1192	1161	935	644	297	136	143	362	702	1198	1953	2939	4131	5292	6227	6871	7168	7304
45	55	107	208	351	600	836	1037	1006	785	491	174	50	55	162	370	721	1321	2157	3194	4200	4985	5476	5650	5700
50	12	43	98	222	446	686	882	851	635	340	81	12	12	55	153	375	821	1507	2389	3240	3875	4215	4296	4308
55	1	8	40	116	305	537	727	696	485	208	26	0	1	9	49	165	470	1007	1734	2430	2915	3123	3149	3149
60	0	1	4	50	185	390	572	541	340	101	1	0	0	1	5	55	240	630	1202	1743	2083	2184	2185	2185
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	130	175	249	345	491	606	707	696	583	431	237	138	130	305	554	899	1390	1996	2703	3399	3982	4413	4650	4788

(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