### 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

COOP ID: 046635

Lon: 116°31W

**Station: PALM SPRINGS, CA** 

Climate Division: CA 7 NWS Call Sign:

									,	Гетр	eratui	re (°F)									
	Mea	<b>n</b> (1)						Extr	emes			Days (1) emp 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	70.4	44.2	57.3	95	1971	18	63.3	1986	19	1937	22	50.1	1979	257	18	.0	.1	30.9	.0	1.2	.0
Feb	74.8	47.2	61.0	99+	1986	27	66.8	1991	24+	1953	21	57.0	1998	140	29	.0	1.1	28.0	.0	.4	.0
Mar	79.7	50.7	65.2	104	1966	31	72.9	1972	29+	1956	13	58.9	1973	111	117	.1	4.0	31.0	.0	@	.0
Apr	87.5	56.0	71.8	112	1989	7	78.9	1989	34	1968	19	63.6	1975	42	243	2.1	13.2	30.0	.0	.1	.0
May	94.6	62.8	78.7	116+	2001	23	86.0	1997	36	1964	7	71.7	1977	8	433	9.2	23.0	31.0	.0	.0	.0
Jun	104.0	69.6	86.8	121+	1994	29	92.0	1981	44	1976	10	81.1	1982	0	653	22.4	28.5	30.0	.0	.0	.0
Jul	108.2	76.0	92.1	123+	1995	29	95.6	1996	54+	1979	2	87.8	1987	0	840	29.6	31.0	31.0	.0	.0	.0
Aug	106.9	76.0	91.5	123	1993	1	96.2	1998	52+	1976	2	85.9	1976	0	819	28.1	30.8	31.0	.0	.0	.0
Sep	101.3	70.5	85.9	121	1950	1	89.7	1995	46	1930	30	79.7	1986	0	626	19.2	28.1	30.0	.0	.0	.0
Oct	90.9	61.1	76.0	116	1980	2	81.2	1991	30	1951	24	70.1	1972	8	349	5.2	18.0	31.0	.0	.0	.0
Nov	78.2	49.7	64.0	102	1962	1	70.1	1995	23	1964	17	57.1	1994	112	81	@	2.1	30.0	.0	@	.0
Dec	70.0	43.4	56.7	93+	1958	3	63.4	1980	23	1953	25	51.0	1978	273	16	.0	.1	30.9	.0	1.3	.0
					Jul			Aug		Jan			Jan								
Ann	88.9	58.9	73.9	123+	1995	29	96.2	1998	19	1937	22	50.1	1979	951	4224	115.9	180.0	364.8	.0	3.0	.0

<sup>+</sup> Also occurred on an earlier date(s)

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004 161-A

(1) From the 1971-2000 Monthly Normals

Elevation: 425 Feet Lat: 33°50N

- (2) Derived from station's available digital record: 1927-2001
- (3) Derived from 1971-2000 serially complete daily data

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

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Climate Division: CA 7 NWS Call Sign: Elevation: 425 Feet Lat: 33°50N Lon: 116°31W

										Pı	recipit	tation	(incl	nes)													
	Me	ans/	P	recip	itatio	on Total	s					ays (3	3)	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													
	Medi	ians(1)				Extremes	S			D	aily Pre	cipitatio	n		Th				_	incomplet			ion				
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	1.27	.57	4.57	1943	23	8.04	1993	.00+	2000	3.8	2.3	.9	.4	.00	.00	.00	.11	.31	.58	.94	1.44	2.18	3.52	4.89			
Feb	1.15	.72	2.30	1932	8	5.41	1980	.00+	1997	3.5	2.4	.9	.2	.00	.00	.06	.24	.46	.71	1.02	1.42	1.98	2.92	3.90			
Mar	.63	.43	1.93	1991	1	3.46	1991	.00+	1999	2.4	1.5	.3	.1	.00	.00	.00	.00	.16	.32	.52	.78	1.12	1.71	2.29			
Apr	.08	.00	1.25	1942	22	.69	1975	.00+	1998	.7	.3	@	.0	.00	.00	.00	.00	.00	.00	.00	.06	.13	.26	.39			
May	.06	.00	1.11	1976	7	1.11	1976	.00+	2000	.4	.1	@	@	.00	.00	.00	.00	.00	.00	.00	.01	.07	.21	.38			
Jun	.05	.00	2.80	1948	23	.80	1980	.00+	2000	.2	.1	.1	.0	**	**	**	**	**	**	**	**	**	**	**			
Jul	.19	.00	2.80	1948	23	2.55	1979	.00+	2000	.7	.3	.1	@	.00	.00	.00	.00	.00	.00	.00	.06	.23	.62	1.07			
Aug	.40	.02	2.03	1930	1	4.32	1983	.00+	1999	1.1	.8	.2	.1	.00	.00	.00	.00	.00	.00	.09	.29	.63	1.30	2.03			
Sep	.39	.02	2.76	1976	10	4.17	1976	.00+	1999	1.0	.6	.2	.1	.00	.00	.00	.00	.00	.00	.06	.22	.55	1.20	2.01			
Oct	.11	.00	1.63	1931	1	1.25	1987	.00+	1999	.8	.4	.0	.0	.00	.00	.00	.00	.00	.00	.01	.08	.18	.37	.57			
Nov	.29	.00	2.75	1965	23	1.58	1985	.00+	2000	1.0	.7	.2	.0	.00	.00	.00	.00	.00	.00	.07	.27	.53	.96	1.38			
Dec	.61	.39	3.80	1943	10	2.64	1984	.00+	2000	2.6	1.5	.4	@	.00	.00	.00	.08	.19	.32	.50	.73	1.06	1.64	2.23			
Ann	5.23	4.70	4.57	Jan 1943	23	8.04	Jan 1993	.00+	Dec 2000	18.2	11.0	3.3	.9	.86	1.32	2.08	2.79	3.53	4.33	5.25	6.37	7.86	10.27	12.59			

<sup>+</sup> Also occurred on an earlier date(s)

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

<sup>#</sup> Denotes amounts of a trace

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>\*\*</sup> Statistics not computed because less than six years out of thirty had measurable precipitation

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1927-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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**COOP ID: 046635** 

Station: PALM SPRINGS, CA

Climate Division: CA 7 NWS Call Sign: Elevation: 425 Feet Lat: 33°50N Lon: 116°31W

										Snov	w (incl	hes)											
						Sn	ow To	tals									Mea	n Nu	mber	of Day	<b>ys</b> (1)		
	Mean	s/Medi	ians (1)	1					Extre	mes (2)							ow Fa	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	.1	.0	0	0	1.5	1979	31	1.5	1979	#	1974	4	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	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	#	1974	.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	#+	1997	27	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	.1	.0	N/A	N/A	1.5	Jan 1979	31	1.5	Jan 1979	#+	Nov 1997	27	#	May 1974	.0	.0	.0	.0	.0	.0	.0	.0	.0

<sup>+</sup> Also occurred on an earlier date(s) #Denotes trace amounts

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>-9/-9.9</sup> represents missing values Annual statistics for Mean/Median snow depths are not appropriate

<sup>(1)</sup> Derived from Snow Climatology and 1971-2000 daily data

<sup>(2)</sup> Derived from 1971-2000 daily data

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**COOP ID: 046635** 

Lon: 116°31W

Lat: 33°50N

Elevation: 425 Feet

Station: PALM SPRINGS, CA

Climate Division: CA 7 NWS Call Sign:

Freeze Data **Spring Freeze Dates (Month/Day)** Probability of later date in spring (thru Jul 31) than indicated(\*) Temp (F) .10 .20 .30 .40 .60 .70 .80 .90 36 3/23 3/08 2/25 2/16 2/07 1/29 1/20 1/09 12/25 32 3/07 2/03 2/17 1/20 1/04 12/07 0/00 0/00 0/00 28 1/13 12/31 12/16 0/00 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 20 0/00 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 Fall Freeze Dates (Month/Day) Probability of earlier date in fall (beginning Aug 1) than indicated(\*) Temp (F) .20 .30 .40 .50 .70 .10 .60 .80 .90 36 11/15 11/25 12/03 12/09 12/15 12/21 12/28 1/05 1/18 32 11/29 12/17 12/31 1/15 2/01 0/00 0/00 0/00 0/00 28 12/17 1/02 1/23 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 0/00 16 0/00 0/00 0/00 0/00 0/00 0/00 0/00 0/00 Freeze Free Period **Probability of longer than indicated freeze free period (Days)** Temp (F) .10 .20 .30 .40 .50 .60 .70 .80 .90 333 350 322 311 301 291 279 262 36 >365 32 >365 >365 >365 >365 355 329 309 >365 >365 28 >365 359 >365 >365 >365 >365 >365 >365 >365 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

**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 do

Complete documentation available from:

<sup>\*</sup> Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

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	Degree Days to Selected Base Temperatures (°F)														
Base						Heatin	g Degree l	Days (1)							
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
65	257	140	111	42	8	0	0	0	0	8	112	273	951		
60	144	60	47	15	1	0	0	0	0	1	48	156	472		
57	94	28	24	7	0	0	0	0	0	0	24	104	281		
55	66	15	15	4	0	0	0	0	0	0	14	75	189		
50	21	2	3	0	0	0	0	0	0	0	3	24	53		
32	0	0	0	0	0	0	0	0	0	0	0	0	0		

Base	Cooling Degree Days (1)														
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
32	784	812	1028	1192	1448	1643	1863	1842	1616	1364	959	766	15317		
55	137	184	331	505	735	953	1150	1129	926	651	283	128	7112		
57	104	141	277	449	673	893	1088	1067	866	589	233	95	6475		
60	60	89	207	367	581	803	995	974	776	497	166	54	5569		
65	18	29	117	243	433	653	840	819	626	349	81	16	4224		
70	4	6	52	148	296	503	685	664	476	218	30	2	3084		

	Growing Degree U																									
Base					Growing	g Degree	Units (M	Ionthly)					Growing Degree Units (Accumulated Monthly)													
	Jan   Feb   Mar   Apr   May   Jun   Jul   Aug   Sep   Oct   Nov   Dec   Jun														Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
40	547	616	789	956	1207	1401	1622	1602	1374	1123	727	525	547	1163	1952	2908	4115	5516	7138	8740	10114	11237	11964	12489		
45	393	474	634	806	1052	1251	1467	1447	1224	968	577	372	393	867	1501	2307	3359	4610	6077	7524	8748	9716	10293	10665		
50	245	333	479	656	897	1101	1312	1292	1074	813	428	227	245	578	1057	1713	2610	3711	5023	6315	7389	8202	8630	8857		
55	122	195	327	506	742	951	1157	1137	924	658	282	103	122	317	644	1150	1892	2843	4000	5137	6061	6719	7001	7104		
60	47	91	192	359	587	801	1002	982	774	505	158	33	47	138	330	689	1276	2077	3079	4061	4835	5340	5498	5531		
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)													
50/86	<b>6</b> 334 382 497 603 754 829 969 965 847 718 458 32												334	716	1213	1816	2570	3399	4368	5333	6180	6898	7356	7680		

(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

#### 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

- c. Snow Tables
  - 1. Snow Climatology
  - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

### 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