

Climatology of the United States

No. 20

1971-2000

Station: DAGGETT BARSTOW AP, CA

COOP ID: 042257

Climate Division: CA 7

NWS Call Sign: DAG

Elevation: 1,917 Feet Lat: 34° 51N

Lon: 116° 47W

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	61.0	34.9	48.0	83	1971	20	53.4	2000	8	1963	13	41.8	1979	528	0	.0	.0	29.1	.0	7.2	.0
Feb	66.2	39.1	52.7	87	1986	26	59.5	1995	17	1949	14	48.4	1979	348	2	.0	.0	27.2	@	2.8	.0
Mar	71.4	43.8	57.6	94	1997	20	64.2	1972	23	1966	4	51.5	1973	263	33	.0	.2	30.9	.0	.3	.0
Apr	79.1	49.4	64.3	101	1949	23	72.5	1989	31	1953	9	56.8	1975	134	112	@	4.5	30.0	.0	.0	.0
May	88.1	57.4	72.8	110+	1984	29	80.7	1997	40+	1998	13	65.6	1977	36	276	3.0	15.2	31.0	.0	.0	.0
Jun	98.7	65.3	82.0	118	1994	30	87.2	1994	45	1995	17	77.5	1998	0	510	15.3	26.2	30.0	.0	.0	.0
Jul	104.5	71.3	87.9	117+	1998	18	91.9	1996	50	1976	17	83.3	1983	0	709	25.9	30.6	31.0	.0	.0	.0
Aug	102.3	70.4	86.4	117	1986	2	90.7	1998	55+	1959	21	81.4	1983	0	662	22.7	30.1	31.0	.0	.0	.0
Sep	94.7	64.1	79.4	112	1950	2	84.1	1974	43	1948	26	73.7	1985	2	434	9.2	23.3	30.0	.0	.0	.0
Oct	83.0	53.1	68.1	105+	1980	2	75.1	1988	25	1971	30	62.2+	1972	69	164	.8	7.8	31.0	.0	@	.0
Nov	69.5	41.1	55.3	90	1980	7	62.3	1995	21+	1957	30	48.1	1994	303	13	.0	@	29.9	.0	2.2	.0
Dec	60.9	33.9	47.4	83	1958	12	52.8	1981	5	1985	25	41.0	1990	545	0	.0	.0	29.0	.0	8.9	.0
Ann	81.6	52.0	66.8	118	Jun 1994	30	91.9	Jul 1996	5	Dec 1985	25	41.0	Dec 1990	2228	2915	76.9	137.9	360.1	@	21.4	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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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	Median	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	.67	.50	1.10	1993	7	2.49	1993	.00+	1976	4.1	2.1	.2	@	.00	.00	.10	.22	.35	.49	.65	.85	1.13	1.58	2.03	
Feb	.60	.39	1.06	1992	12	2.54	1998	.00+	1984	3.7	2.0	.2	@	.00	.01	.06	.13	.23	.34	.49	.70	.99	1.51	2.05	
Mar	.55	.44	1.20	1987	6	1.91+	1992	.00+	1997	3.6	1.7	.2	.1	.00	.01	.05	.11	.19	.30	.44	.63	.92	1.43	1.95	
Apr	.18	.07	.65	1965	12	1.30	1999	.00+	1997	1.5	.6	.1	.0	.00	.00	.00	.00	.01	.05	.11	.19	.32	.55	.78	
May	.08	.01	.37	1962	16	.60	1987	.00+	2000	1.0	.3	.0	.0	.00	.00	.00	.00	.00	.01	.04	.08	.15	.26	.38	
Jun	.11	.00	.72	1987	6	1.24	1972	.00+	1998	.8	.3	@	.0	.00	.00	.00	.00	.00	.00	.00	.05	.16	.38	.63	
Jul	.45	.15	1.73	1984	22	3.20	1984	.00+	2000	1.4	1.0	.3	.1	.00	.00	.00	.00	.04	.13	.27	.46	.77	1.33	1.91	
Aug	.39	.12	2.06	1958	7	2.59	1983	.00+	1999	1.7	.8	.3	@	.00	.00	.00	.02	.07	.14	.25	.41	.66	1.12	1.61	
Sep	.33	.07	2.28	1976	10	3.36	1976	.00+	2000	1.4	.6	.2	.1	.00	.00	.00	.00	.00	.04	.14	.30	.56	1.04	1.57	
Oct	.17	.05	.76	1948	18	1.15	1983	.00+	2000	1.2	.6	@	.0	.00	.00	.00	.00	.00	.03	.09	.17	.30	.52	.75	
Nov	.18	.09	1.08	1964	17	.83	1985	.00+	2000	1.5	.7	.1	.0	.00	.00	.00	.00	.04	.08	.14	.21	.31	.49	.67	
Dec	.46	.39	1.01	1965	9	2.03	1984	.00+	2000	2.8	1.4	.1	.0	.00	.00	.03	.10	.18	.27	.39	.55	.78	1.17	1.57	
Ann	4.17	4.00	2.28	Sep 1976	10	3.36	Sep 1976	.00+	Dec 2000	24.7	12.1	1.7	.3	1.61	2.00	2.55	3.01	3.44	3.88	4.36	4.92	5.62	6.70	7.69	

+ 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

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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	#	.0	0	0	#	1997	15	#+	1997	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	2.1	1985	2	2.1	1985	1	1985	2	#	1985	.0	.0	.0	.0	.0	.0	@	.0	.0
Mar	#	.0	0	0	#	1991	27	#+	1991	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1999	4	#	1999	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	#	1985	.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	#	1985	11	#	1985	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	1.0	1985	11	1.0	1985	#	1985	11	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	2.1	Feb 1985	2	2.1	Feb 1985	1	Feb 1985	2	#+	May 1985	.0	.0	.0	.0	.0	.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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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	3/26	3/18	3/12	3/07	3/02	2/26	2/21	2/15	2/06
32	3/11	3/02	2/23	2/17	2/12	2/07	2/01	1/26	1/17
28	2/22	2/09	1/31	1/23	1/15	1/08	12/30	12/20	12/05
24	2/02	1/23	1/15	1/07	12/30	12/18	0/00	0/00	0/00
20	1/18	1/03	12/19	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	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	10/31	11/05	11/08	11/11	11/14	11/17	11/20	11/24	11/29
32	11/10	11/17	11/21	11/26	11/29	12/03	12/07	12/12	12/19
28	11/15	11/23	11/28	12/03	12/07	12/12	12/17	12/23	1/01
24	12/02	12/11	12/19	12/26	1/03	1/17	0/00	0/00	0/00
20	12/17	12/31	1/16	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	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	282	273	267	261	256	251	245	239	230
32	323	312	303	296	290	283	276	267	256
28	>365	>365	347	333	322	312	302	291	275
24	>365	>365	>365	>365	>365	365	343	328	312
20	>365	>365	>365	>365	>365	>365	>365	>365	351
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.

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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	528	348	263	134	36	0	0	0	2	69	303	545	2228
60	376	219	157	67	13	0	0	0	0	26	184	395	1437
57	291	152	108	39	6	0	0	0	0	12	126	310	1044
55	236	115	79	26	3	0	0	0	0	7	94	256	816
50	127	46	30	9	0	0	0	0	0	1	38	146	397
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	495	578	793	968	1263	1499	1732	1685	1422	1118	700	478	12731
55	19	49	160	304	553	809	1019	972	732	411	103	21	5152
57	11	30	126	257	494	749	957	910	672	354	75	13	4648
60	4	13	82	195	407	659	864	817	582	275	43	5	3946
65	0	2	33	112	276	510	709	662	434	164	13	0	2915
70	0	0	11	52	169	363	554	507	294	83	2	0	2035

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	299	418	591	775	1059	1302	1527	1478	1223	914	507	288	299	717	1308	2083	3142	4444	5971	7449	8672	9586	10093	10381
45	163	277	436	625	904	1152	1372	1323	1073	759	361	155	163	440	876	1501	2405	3557	4929	6252	7325	8084	8445	8600
50	67	157	286	475	749	1002	1217	1168	923	605	227	61	67	224	510	985	1734	2736	3953	5121	6044	6649	6876	6937
55	17	66	158	329	594	852	1062	1013	773	451	118	19	17	83	241	570	1164	2016	3078	4091	4864	5315	5433	5452
60	1	20	69	199	439	702	907	858	623	305	46	0	1	21	90	289	728	1430	2337	3195	3818	4123	4169	4169
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	186	253	357	479	672	806	933	914	777	583	313	183	186	439	796	1275	1947	2753	3686	4600	5377	5960	6273	6456

(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