

# Climatology of the United States

## No. 20

### 1971-2000

**Station: CRESCENT CITY 3 NNW, CA**

**COOP ID: 042147**

**Climate Division: CA 1**

**NWS Call Sign:**

**Elevation: 40 Feet**

**Lat: 41° 48N**

**Lon: 124° 13W**

### 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	53.6	39.6	46.6	75	1981	21	51.7	1981	22	1962	21	42.7	1972	571	0	.0	.0	27.2	.0	2.8	.0
Feb	54.4	41.2	47.8	78+	1988	20	52.1	1980	24	1989	5	41.3	1989	483	0	.0	.0	25.7	.1	1.7	.0
Mar	54.6	41.8	48.2	76+	1986	19	52.5	1992	28+	1999	5	43.4	1985	506	0	.0	.0	29.5	.0	1.2	.0
Apr	56.6	43.3	50.0	90	1951	10	54.4	1992	30+	1997	1	45.8	1975	452	0	.0	.0	29.7	.0	.2	.0
May	59.6	46.0	52.8	92	1970	31	57.0	1997	32	1964	6	50.1	1999	378	0	.0	@	31.0	.0	.0	.0
Jun	62.7	48.4	55.6	93	1970	1	57.9	1981	37+	1999	2	53.4	1984	284	0	.0	.0	30.0	.0	.0	.0
Jul	65.4	50.4	57.9	83	1978	21	60.3	1995	40+	1999	2	55.5	1981	221	0	.0	.0	31.0	.0	.0	.0
Aug	66.0	50.8	58.4	91	1968	30	61.8	1997	41+	1999	31	55.1	1980	207	3	.0	.0	31.0	.0	.0	.0
Sep	66.0	48.7	57.4	93	1964	24	62.3	1979	36	1950	30	54.5	1987	234	3	.0	.1	30.0	.0	.0	.0
Oct	63.0	45.4	54.2	93	1991	10	56.9	1987	32+	1949	18	51.6	1971	335	0	.0	.1	30.9	.0	.0	.0
Nov	56.7	42.0	49.4	79	1950	3	52.3	1976	25	1964	14	43.3	1985	469	0	.0	.0	29.1	.0	.9	.0
Dec	54.0	38.9	46.5	80	1980	15	50.4	1995	19	1990	21	40.5	1990	576	0	.0	.0	27.3	@	3.4	.0
Ann	59.4	44.7	52.1	93+	Oct 1991	10	62.3	Sep 1979	19	Dec 1990	21	40.5	Dec 1990	4716	6	.0	.2	352.4	.1	10.2	.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](http://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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### 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	10.15	10.70	7.73	1995	9	22.28	1998	.52	1985	12.8	10.8	6.1	3.3	2.69	3.65	5.12	6.41	7.68	9.01	10.49	12.24	14.53	18.12	21.48
Feb	9.18	8.53	5.40+	1986	24	20.18	1986	.62	1988	11.5	10.0	5.1	2.4	2.13	2.99	4.33	5.53	6.73	8.00	9.43	11.13	13.36	16.90	20.24
Mar	9.22	8.82	6.55	1972	2	16.82	1983	3.32	1994	13.4	11.4	5.2	2.1	3.56	4.42	5.64	6.65	7.61	8.59	9.65	10.88	12.44	14.84	17.03
Apr	5.13	4.31	3.08	1993	5	13.77	1993	1.09	1985	10.2	8.0	3.4	.9	1.43	1.91	2.65	3.29	3.92	4.58	5.31	6.17	7.29	9.05	10.69
May	3.13	2.82	3.02	1963	6	7.66	1990	.13	1982	6.8	4.9	1.7	.8	.44	.70	1.15	1.58	2.04	2.54	3.11	3.82	4.77	6.33	7.83
Jun	1.57	1.15	2.53	1971	25	4.62	1985	.09	1987	4.4	2.7	1.1	.4	.13	.23	.43	.65	.89	1.17	1.49	1.91	2.48	3.44	4.39
Jul	.40	.24	2.11	1983	1	2.20	1983	.00+	1994	1.6	.7	.2	.1	.00	.00	.01	.06	.13	.22	.33	.48	.69	1.06	1.44
Aug	.74	.24	3.05	1968	26	4.37	1983	.00+	1988	2.8	1.4	.3	.2	.00	.00	.00	.03	.12	.26	.47	.77	1.25	2.13	3.08
Sep	1.67	.73	4.40	1957	26	8.94	1977	.00+	1999	3.7	2.5	.9	.3	.00	.00	.06	.23	.48	.81	1.27	1.89	2.82	4.49	6.23
Oct	4.56	3.65	7.40	1950	29	12.56	1975	.09	1987	6.4	5.1	2.7	1.2	.39	.70	1.30	1.93	2.63	3.42	4.36	5.55	7.19	9.93	12.63
Nov	9.84	8.74	6.21	1998	21	31.25	1973	2.69	1976	12.2	9.8	5.3	2.9	2.39	3.31	4.75	6.03	7.30	8.64	10.13	11.91	14.25	17.95	21.42
Dec	11.23	10.64	5.57	1996	8	31.10	1996	.96	1976	11.9	10.2	6.3	3.2	2.26	3.28	4.93	6.44	7.96	9.59	11.44	13.66	16.60	21.31	25.78
Ann	66.82	64.66	7.73	Jan 1995	9	31.25	Nov 1973	.00+	Sep 1999	97.7	77.5	38.3	17.8	40.90	45.63	51.84	56.67	61.02	65.29	69.75	74.75	80.89	89.94	97.89

+ 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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NWS Call Sign:

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Lat: 41° 48N

Lon: 124° 13W

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	.2	.0	#	0	6.0	1972	26	6.0	1972	6	1972	26	#	1972	.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	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	1.1	1972	7	1.1	1972	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	6.0	Jan 1972	26	6.0	Jan 1972	6	Jan 1972	26	#	Jan 1972	.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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<b>Freeze Data</b>									
<b>Spring Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of later date in spring (thru Jul 31) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	5/16	5/04	4/26	4/19	4/13	4/06	3/30	3/22	3/11
<b>32</b>	4/17	3/30	3/18	3/07	2/25	2/14	2/03	1/21	12/31
<b>28</b>	2/24	2/06	1/20	12/25	0/00	0/00	0/00	0/00	0/00
<b>24</b>	12/28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>20</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>16</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Fall Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of earlier date in fall (beginning Aug 1) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	10/23	11/02	11/09	11/15	11/21	11/26	12/02	12/10	12/19
<b>32</b>	11/12	11/24	12/03	12/11	12/18	12/25	1/02	1/12	1/27
<b>28</b>	12/18	1/11	2/04	0/00	0/00	0/00	0/00	0/00	0/00
<b>24</b>	1/07	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>20</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>16</b>	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
<b>Freeze Free Period</b>									
<b>Temp (F)</b>	<b>Probability of longer than indicated freeze free period (Days)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	268	252	240	230	221	212	202	191	175
<b>32</b>	>365	348	318	301	288	276	263	249	230
<b>28</b>	>365	>365	>365	>365	>365	>365	>365	>365	337
<b>24</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>20</b>	>365	>365	>365	>365	>365	>365	>365	>365	>365
<b>16</b>	>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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NWS Call Sign:

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Lat: 41° 48N

Lon: 124° 13W

### Degree Days to Selected Base Temperatures (°F)

Base	Heating Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below 65	571	483	506	452	378	284	221	207	234	335	469	576	4716
60	416	343	366	302	226	136	80	80	108	183	319	421	2980
57	324	266	278	216	142	63	28	33	57	104	235	332	2078
55	267	215	221	162	96	31	9	14	31	63	182	274	1565
50	139	112	106	62	22	1	0	0	4	9	80	147	682
32	0	0	0	0	0	0	0	0	0	0	0	0	0

### Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above 32	453	441	502	538	645	707	803	819	760	688	521	447	7324
55	7	12	11	10	27	47	98	120	100	38	12	8	490
57	2	7	5	5	11	19	55	77	66	17	6	4	274
60	0	0	0	0	2	3	15	31	27	3	0	0	81
65	0	0	0	0	0	0	0	3	3	0	0	0	6
70	0	0	0	0	0	0	0	0	0	0	0	0	0

### 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	259	274	297	336	430	495	582	604	555	486	327	253	259	533	830	1166	1596	2091	2673	3277	3832	4318	4645	4898
45	126	142	154	190	275	345	427	449	405	331	184	122	126	268	422	612	887	1232	1659	2108	2513	2844	3028	3150
50	36	49	52	69	127	196	272	294	255	184	68	34	36	85	137	206	333	529	801	1095	1350	1534	1602	1636
55	2	7	3	12	33	63	120	140	112	64	11	0	2	9	12	24	57	120	240	380	492	556	567	567
60	0	0	0	0	2	3	22	28	29	12	0	0	0	0	0	0	2	5	27	55	84	96	96	96
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	99	100	109	133	183	223	284	302	280	235	130	95	99	199	308	441	624	847	1131	1433	1713	1948	2078	2173

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://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](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)