

# Climatography of the United States

No. 20

1971-2000

Station: SPRINGER, NM

COOP ID: 298501

Climate Division: NM 3

NWS Call Sign:

Elevation: 5,922 Feet Lat: 36° 22N

Lon: 104° 36W

## 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	47.7	13.6	30.7	74+	1950	20	37.2	1999	-37	1963	13	22.4	1979	1066	0	.0	.0	15.6	3.5	30.3	3.0
Feb	53.2	17.6	35.4	78	1972	28	41.3	1999	-26	1982	6	31.0	1989	829	0	.0	.0	19.4	1.6	26.9	1.3
Mar	60.0	24.2	42.1	84+	1971	26	47.6	1989	-22	1948	11	38.7	1988	711	0	.0	.0	26.0	.3	26.9	.1
Apr	66.8	30.9	48.9	90	1981	25	53.8	1981	-5	1957	8	40.1	1973	487	2	.0	@	28.2	.1	17.1	.0
May	75.3	40.5	57.9	99	1953	25	64.4	2000	17	1981	22	53.7	1980	241	21	.0	1.0	30.6	.0	3.8	.0
Jun	84.5	49.0	66.8	104	1973	26	71.5	1990	29	1954	7	63.1	1995	49	101	.5	8.6	30.0	.0	.1	.0
Jul	87.5	53.7	70.6	104+	1964	3	75.6	1980	35	1976	22	68.3	1990	3	177	.4	12.7	31.0	.0	.0	.0
Aug	85.2	52.8	69.0	102	1956	8	71.9	1983	41+	1950	18	66.5	1990	10	135	.0	7.0	31.0	.0	.0	.0
Sep	79.7	45.2	62.5	98	1956	14	66.7	1998	21	1970	26	59.6	1975	112	36	.0	2.4	29.9	.0	1.2	.0
Oct	70.6	33.1	51.9	92	1962	11	54.6	1988	-5	1993	30	47.2	1984	408	0	.0	.1	30.0	.1	15.1	@
Nov	56.9	22.0	39.5	82	1994	1	44.6	1998	-22+	1976	28	30.1	1972	767	0	.0	.0	22.2	.7	26.7	.4
Dec	47.5	14.1	30.8	78+	1977	11	40.2	1980	-27	1978	9	22.8	1978	1059	0	.0	.0	15.0	3.3	30.2	2.5
Ann	67.9	33.1	50.5	104+	Jun 1973	26	75.6	Jul 1980	-37	Jan 1963	13	22.4	Jan 1979	5742	472	.9	31.8	308.9	9.6	178.3	7.3

+ 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

084-A

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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: SPRINGER, NM**

**COOP ID: 298501**

**Climate Division: NM 3**

**NWS Call Sign:**

**Elevation: 5,922 Feet Lat: 36°22N**

**Lon: 104°36W**

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	.36	.26	1.15	2001	16	1.35	1990	.00+	1998	2.6	1.2	.2	.0	.00	.00	.06	.12	.19	.26	.35	.46	.61	.85	1.09
Feb	.33	.19	1.17	1981	28	1.35	1987	.00+	1999	2.2	.9	.2	@	.00	.00	.00	.04	.10	.18	.27	.40	.58	.89	1.20
Mar	.84	.59	1.40+	1973	30	3.46	1973	.09	1976	4.0	2.5	.5	.1	.07	.13	.24	.35	.48	.63	.80	1.02	1.32	1.82	2.32
Apr	.98	.64	3.62	1999	30	5.00	1999	.00+	1974	4.4	2.4	.5	.1	.00	.05	.18	.33	.49	.68	.91	1.20	1.60	2.29	2.98
May	2.02	1.72	4.05+	1955	18	7.14	1979	.00	1998	5.8	3.8	1.3	.4	.33	.61	.95	1.23	1.50	1.78	2.10	2.47	2.96	3.73	4.45
Jun	1.98	1.73	2.33	1986	1	6.72	1986	.05+	1990	7.6	4.2	1.2	.3	.15	.28	.54	.81	1.11	1.46	1.88	2.40	3.13	4.35	5.56
Jul	2.49	2.35	3.75	1969	17	5.83	1999	.12	1987	9.1	5.6	1.5	.6	.55	.78	1.14	1.47	1.80	2.15	2.55	3.02	3.65	4.64	5.58
Aug	3.46	3.25	2.55	1966	2	8.30	1981	.81	1973	10.5	7.0	2.6	.6	1.00	1.33	1.83	2.26	2.67	3.11	3.59	4.16	4.90	6.05	7.12
Sep	2.03	1.81	2.00	1999	16	5.90	1990	.05	1977	6.2	3.6	1.3	.5	.17	.31	.57	.85	1.16	1.51	1.93	2.46	3.20	4.42	5.63
Oct	1.18	.71	3.37	1957	20	4.73	2000	.00+	1995	3.9	2.6	.6	.2	.00	.00	.21	.44	.66	.90	1.17	1.50	1.96	2.69	3.41
Nov	.67	.52	1.90	1990	3	2.29	1978	.00+	1999	2.7	1.6	.4	.1	.00	.05	.16	.26	.38	.50	.65	.83	1.08	1.50	1.92
Dec	.36	.31	.80	1996	16	1.17	1987	.00+	1999	2.4	1.5	.1	.0	.00	.00	.05	.11	.18	.25	.34	.45	.60	.84	1.08
Ann	16.70+	16.71+	4.05+	May 1955	18	8.30	Aug 1981	.00+	Dec 1999	61.4	36.9	10.4	2.9	11.17	12.21	13.56	14.60	15.52	16.42	17.36	18.39	19.66	21.51	23.11

+ 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

Complete documentation available from:  
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**Climate Division: NM 3**

**NWS Call Sign:**

**Elevation: 5,922 Feet**

**Lat: 36° 22N**

**Lon: 104° 36W**

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	4.4	3.7	1	#	13.0	1990	18	17.0	1990	17	1990	19	2	1990	2.0	1.4	.6	.1	@	4.4	2.0	.6	.0
Feb	3.9	1.1	1	#	15.0	1990	21	28.0	1990	26	1990	21	3	1983	1.6	1.0	.4	.2	.1	2.6	1.7	.9	.1
Mar	5.5	3.8	#	#	14.0	1973	30	29.0	1973	21	1973	30	2	1973	2.0	1.5	.6	.2	@	1.3	.5	.3	.1
Apr	2.0	.3	#	0	7.0	1995	22	14.0	1995	14	1973	1	3	1973	1.0	.8	.3	.2	.0	.8	.5	.4	.1
May	.7	.0	#	0	10.5	1978	2	18.0	1978	11	1978	2	1	1978	.3	.2	.1	@	@	.2	.2	.1	@
Jun	.0	.0	#	0	.0	0	0	.0	0	#	1983	9	#	1983	.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	2	1974	6	#+	1994	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.1	.0	#	0	2.0	1971	17	2.0	1971	2	1971	17	#	1971	.1	@	.0	.0	.0	@	.0	.0	.0
Oct	1.1	.0	#	0	12.0	1996	27	12.0	1996	12	1996	27	1	1996	.5	.4	.2	.1	@	.2	.2	.1	@
Nov	3.1	2.0	#	#	8.0	1996	30	14.0	1991	11	1972	1	2	1972	1.4	1.0	.4	.1	.0	1.7	.8	.2	.0
Dec	5.0	3.5	1	#	8.0	1979	27	17.2	1987	8+	1996	16	3	1995	1.9	1.6	.7	.2	.0	7.1	4.1	1.4	.0
Ann	25.8	14.4	N/A	N/A	15.0	Feb 1990	21	29.0	Mar 1973	26	Feb 1990	21	3+	Dec 1995	10.8	7.9	3.3	1.1	.1	18.3	10.0	4.0	.3

+ 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	6/17	6/10	6/04	5/31	5/26	5/22	5/18	5/12	5/05
32	5/30	5/25	5/21	5/18	5/15	5/12	5/09	5/05	4/30
28	5/17	5/12	5/09	5/06	5/03	4/30	4/27	4/23	4/18
24	5/10	5/04	4/29	4/25	4/21	4/17	4/13	4/08	4/02
20	5/01	4/25	4/21	4/17	4/14	4/10	4/07	4/02	3/27
16	4/17	4/12	4/08	4/05	4/02	3/30	3/26	3/23	3/17
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	9/14	9/18	9/20	9/22	9/24	9/26	9/28	10/01	10/04
32	9/21	9/24	9/26	9/28	9/30	10/02	10/04	10/06	10/09
28	9/29	10/03	10/06	10/08	10/11	10/13	10/16	10/18	10/23
24	10/07	10/11	10/14	10/17	10/19	10/21	10/24	10/27	10/31
20	10/15	10/20	10/23	10/26	10/29	11/01	11/04	11/07	11/12
16	10/28	11/01	11/04	11/07	11/09	11/12	11/15	11/18	11/22
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	144	136	130	125	120	115	110	104	96
32	156	150	145	141	137	133	129	125	118
28	182	174	169	164	160	156	151	146	138
24	203	195	190	185	180	176	171	165	157
20	218	211	206	202	198	194	189	184	177
16	238	232	228	224	221	217	214	209	203

\* 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

Complete documentation available from:

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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	1066	829	711	487	241	49	3	10	112	408	767	1059	5742
60	911	689	556	345	132	11	0	0	37	257	617	904	4459
57	818	605	463	267	84	4	0	0	14	177	529	811	3772
55	756	549	402	219	59	1	0	0	6	131	472	749	3344
50	601	409	258	122	19	0	0	0	0	51	336	595	2391
32	145	48	5	0	0	0	0	0	0	0	41	140	379

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	102	143	317	505	803	1042	1197	1148	914	615	264	104	7154
55	0	0	2	34	149	354	484	435	230	32	5	0	1725
57	0	0	0	22	112	296	422	373	177	17	2	0	1421
60	0	0	0	10	67	214	329	280	110	4	0	0	1014
65	0	0	0	2	21	101	177	135	36	0	0	0	472
70	0	0	0	0	4	31	57	34	6	0	0	0	132

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	19	49	137	300	572	811	962	913	689	386	105	20	19	68	205	505	1077	1888	2850	3763	4452	4838	4943	4963
45	3	15	54	176	419	661	807	758	539	244	37	0	3	18	72	248	667	1328	2135	2893	3432	3676	3713	3713
50	0	0	16	79	270	511	652	603	394	121	8	0	0	0	16	95	365	876	1528	2131	2525	2646	2654	2654
55	0	0	2	21	142	364	497	448	248	41	0	0	0	0	2	23	165	529	1026	1474	1722	1763	1763	1763
60	0	0	0	2	55	215	342	293	124	6	0	0	0	0	0	2	57	272	614	907	1031	1037	1037	1037
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	62	109	182	272	406	514	601	581	462	333	144	65	62	171	353	625	1031	1545	2146	2727	3189	3522	3666	3731

(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](http://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](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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## 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)