

Climatology of the United States

No. 20

1971-2000

Station: CLOVIS, NM

COOP ID: 291939

Climate Division: NM 3

NWS Call Sign: KCLV

Elevation: 4,290 Feet Lat: 34° 25N

Lon: 103° 12W

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	50.7	25.0	37.9	79	1974	18	42.9	2000	-12	1963	13	30.3	1979	842	0	.0	.0	18.1	3.6	27.0	.2
Feb	56.0	28.6	42.3	83+	1962	13	49.1	2000	-17	1951	1	35.7	1978	636	0	.0	.0	20.2	2.0	20.7	.2
Mar	63.7	34.2	49.0	91	1989	12	55.4	1972	-4	1948	11	44.8	1987	497	0	.0	@	27.2	.5	14.5	.0
Apr	71.7	41.8	56.8	99	1936	13	61.7	1981	12	1913	23	50.4	1973	265	18	.0	.5	28.5	@	4.7	.0
May	80.3	51.4	65.9	103	2000	25	72.8	1996	27	1954	3	62.1	1976	80	107	.1	4.7	30.8	.0	.1	.0
Jun	88.8	60.0	74.4	110	1990	25	80.9	1980	36	1919	1	71.0	1989	7	289	2.2	14.5	30.0	.0	.0	.0
Jul	91.0	63.9	77.5	109	1940	9	82.5	1980	50	1964	13	72.9	1975	0	387	1.7	18.9	31.0	.0	.0	.0
Aug	88.5	62.6	75.6	110+	1944	3	79.0	2000	46	1920	17	72.0	1971	1	328	.3	14.6	31.0	.0	.0	.0
Sep	82.2	55.2	68.7	105+	1937	2	75.0	1998	31	1945	30	61.0	1974	52	163	.1	6.4	29.8	.0	.0	.0
Oct	72.6	44.1	58.4	98	1951	2	62.5	1979	13	1991	31	51.9	1976	219	13	.0	.5	29.8	@	1.9	.0
Nov	60.4	33.2	46.8	85+	1924	3	52.7	1999	-1	1991	3	39.9	1972	547	0	.0	.0	23.9	.7	14.5	@
Dec	51.8	25.9	38.9	91	1919	25	45.1	1980	-9	1918	25	31.0	1983	809	0	.0	.0	18.8	2.9	25.6	.5
Ann	71.5	43.8	57.7	110+	Jun 1990	25	82.5	Jul 1980	-17	Feb 1951	1	30.3	Jan 1979	3955	1305	4.4	60.1	319.1	9.7	109.0	.9

+ 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: 1910-2001

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

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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: CLOVIS, NM

COOP ID: 291939

Climate Division: NM 3

NWS Call Sign: KCLV

Elevation: 4,290 Feet Lat: 34°25N

Lon: 103°12W

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	.48	.29	1.60	1939	8	1.77	1999	.00+	1998	3.1	1.5	.3	.0	.00	.00	.05	.12	.20	.30	.42	.58	.80	1.20	1.59
Feb	.41	.25	.88	1990	20	1.45	1990	.00+	1999	3.1	1.5	.1	.0	.00	.01	.06	.12	.18	.27	.37	.50	.68	1.00	1.33
Mar	.66	.36	1.96	1985	20	2.54	1985	.00+	1996	3.6	1.8	.3	.1	.00	.03	.12	.22	.33	.46	.61	.80	1.08	1.54	2.00
Apr	1.03	.98	2.87	1915	16	5.21	1997	.00+	1996	3.8	2.3	.6	.2	.00	.00	.20	.39	.59	.79	1.03	1.32	1.71	2.33	2.94
May	1.92	1.61	3.45	1936	26	4.92	1995	.05	2000	6.1	3.9	1.2	.4	.14	.26	.50	.76	1.06	1.40	1.81	2.33	3.05	4.27	5.47
Jun	2.62	2.39	3.93	1923	7	5.56	1984	.00	1990	7.7	5.0	1.6	.7	.29	.61	1.05	1.42	1.81	2.22	2.68	3.24	3.98	5.16	6.29
Jul	2.59	2.36	4.69	1921	4	7.24	1991	.52	1995	7.2	4.9	1.9	.6	.62	.86	1.24	1.58	1.92	2.27	2.67	3.14	3.76	4.75	5.67
Aug	3.43	3.14	4.36	1932	28	10.53	1996	.43	1973	8.9	6.2	2.3	.7	.63	.94	1.44	1.91	2.38	2.90	3.48	4.18	5.12	6.63	8.06
Sep	2.17	2.09	5.26	1957	7	4.49	1985	.00	2000	6.4	4.1	1.6	.5	.24	.51	.87	1.18	1.50	1.84	2.22	2.68	3.28	4.26	5.18
Oct	1.75	1.18	3.65	1942	14	7.17	1998	.00	1975	5.0	3.1	1.0	.4	.01	.07	.24	.46	.73	1.06	1.49	2.06	2.88	4.33	5.80
Nov	.74	.63	1.79	2001	16	2.72	1986	.00+	1995	3.8	2.0	.4	.1	.00	.03	.11	.22	.34	.49	.67	.90	1.23	1.80	2.37
Dec	.70	.42	1.88	1943	9	3.17	1991	.00+	1981	3.9	2.0	.4	.1	.00	.04	.15	.25	.37	.50	.66	.86	1.14	1.60	2.06
Ann	18.50	17.82	5.26	Sep 1957	7	10.53	Aug 1996	.00+	Sep 2000	62.6	38.3	11.7	3.8	12.28	13.45	14.97	16.14	17.18	18.20	19.25	20.43	21.86	23.95	25.77

+ 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: 1910-2001

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

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

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Station: CLOVIS, NM

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Climate Division: NM 3

NWS Call Sign: KCLV

Elevation: 4,290 Feet

Lat: 34° 25N

Lon: 103° 12W

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	3.7	2.3	#	#	10.0	1999	30	14.2	1999	14	1999	30	3	1973	2.0	1.2	.4	.1	@	3.3	1.7	.6	.1
Feb	2.7	.9	#	#	7.0	1982	2	10.0	1982	9	1986	10	2	1986	1.5	.9	.4	@	.0	1.9	1.0	.2	.0
Mar	1.0	.2	#	0	4.0	1980	29	4.5	1975	3	1999	19	#+	2000	.9	.5	.1	.0	.0	.6	.2	.0	.0
Apr	.4	.0	#	0	2.0	1973	8	4.0	1983	2+	1997	25	#+	1999	.3	.3	.0	.0	.0	.2	.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	.4	.0	#	0	4.0	1976	28	5.0	1976	4	1976	28	#+	1999	.3	.2	@	.0	.0	.2	@	.0	.0
Nov	1.8	.4	#	0	4.5	1992	24	9.0	1980	5	1992	24	1	1992	1.0	.8	.3	.0	.0	.9	.4	.1	.0
Dec	3.2	2.2	#	#	7.0	1971	2	10.3	1971	8+	2000	27	2	1997	2.2	1.3	.4	.2	.0	3.3	1.4	.7	.0
Ann	13.2	6.0	N/A	N/A	10.0	Jan 1999	30	14.2	Jan 1999	14	Jan 1999	30	3	Jan 1973	8.2	5.2	1.6	.3	@	10.4	4.7	1.6	.1

+ 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

Complete documentation available from:

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Elevation: 4,290 Feet

Lat: 34° 25N

Lon: 103° 12W

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	5/13	5/09	5/05	5/03	4/30	4/27	4/24	4/21	4/17
32	4/30	4/25	4/22	4/19	4/16	4/13	4/10	4/06	4/01
28	4/16	4/11	4/08	4/05	4/02	3/30	3/27	3/24	3/19
24	4/09	4/04	3/31	3/27	3/24	3/21	3/17	3/13	3/08
20	4/03	3/25	3/19	3/13	3/08	3/03	2/25	2/19	2/10
16	3/26	3/15	3/06	2/27	2/21	2/14	2/07	1/30	1/18
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	9/24	9/30	10/04	10/07	10/10	10/13	10/17	10/21	10/26
32	10/13	10/18	10/21	10/24	10/27	10/30	11/02	11/05	11/10
28	10/19	10/24	10/28	11/01	11/04	11/07	11/11	11/15	11/21
24	11/03	11/08	11/11	11/14	11/17	11/20	11/23	11/26	12/01
20	11/05	11/11	11/16	11/20	11/23	11/27	12/01	12/06	12/12
16	11/11	11/20	11/27	12/02	12/07	12/12	12/18	12/24	1/02
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	183	176	171	167	162	158	154	149	142
32	212	206	201	197	194	190	186	181	175
28	238	230	225	220	215	211	206	201	193
24	259	251	246	241	237	233	228	223	216
20	291	280	273	266	260	254	247	239	228
16	333	318	307	298	289	280	271	260	245

* 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	842	636	497	265	80	7	0	1	52	219	547	809	3955
60	687	496	345	153	28	0	0	0	16	103	404	654	2886
57	594	414	260	101	12	0	0	0	7	56	322	562	2328
55	532	361	208	73	7	0	0	0	3	35	272	502	1993
50	385	236	103	25	1	0	0	0	0	7	166	358	1281
32	35	12	0	0	0	0	0	0	0	0	7	33	87

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	216	300	526	743	1050	1272	1410	1350	1101	817	450	247	9482
55	0	6	21	125	343	582	697	637	415	139	25	3	2993
57	0	2	11	94	287	522	635	575	358	98	16	1	2599
60	0	0	3	56	210	433	542	482	277	52	7	0	2062
65	0	0	0	18	107	289	387	328	163	13	0	0	1305
70	0	0	0	4	41	164	237	182	81	2	0	0	711

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	83	152	302	495	791	1023	1152	1096	864	572	242	99	83	235	537	1032	1823	2846	3998	5094	5958	6530	6772	6871
45	31	81	180	355	636	873	997	941	715	426	143	39	31	112	292	647	1283	2156	3153	4094	4809	5235	5378	5417
50	4	33	93	236	482	723	842	786	567	285	70	11	4	37	130	366	848	1571	2413	3199	3766	4051	4121	4132
55	0	6	38	129	335	573	687	631	422	165	24	0	0	6	44	173	508	1081	1768	2399	2821	2986	3010	3010
60	0	0	7	58	204	425	532	476	286	70	1	0	0	0	7	65	269	694	1226	1702	1988	2058	2059	2059
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	94	145	238	341	501	659	760	731	556	371	186	101	94	239	477	818	1319	1978	2738	3469	4025	4396	4582	4683

(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 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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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