

Climatography of the United States

No. 20

1971-2000

Station: ELK 2 E, NM

COOP ID: 292865

Climate Division: NM 7

NWS Call Sign:

Elevation: 5,750 Feet Lat: 32° 57N

Lon: 105° 20W

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	52.5	21.4	37.0	82	1971	30	41.9	1999	-24	1962	10	32.6	1985	870	0	.0	.0	22.4	1.5	28.7	.4
Feb	56.5	23.9	40.2	84	1957	9	45.3	2000	-11+	1951	1	35.3	1978	694	0	.0	.0	22.4	.6	24.7	.2
Mar	62.4	28.4	45.4	85	1971	26	51.0	1974	-7	1948	11	41.3	1977	608	0	.0	.0	28.9	.1	23.4	.0
Apr	69.1	34.3	51.7	90	1965	22	55.9	1972	15+	1951	11	45.8	1983	401	1	.0	.0	29.0	@	12.2	.0
May	76.4	42.5	59.5	99	1896	29	66.6	1996	20	1967	2	54.4	1993	200	27	.0	1.0	30.9	.0	1.5	.0
Jun	83.4	50.8	67.1	106	1896	15	72.5	1980	34	1964	1	63.9	1992	40	103	.1	6.4	30.0	.0	.0	.0
Jul	82.6	55.4	69.0	99+	1951	7	73.3	1980	41	1976	11	65.6	1991	13	137	.0	4.1	31.0	.0	.0	.0
Aug	80.6	54.6	67.6	96+	1972	1	70.2	1977	42+	1950	19	64.6	1990	19	100	.0	1.4	31.0	.0	.0	.0
Sep	76.1	47.9	62.0	94+	1948	5	66.2	1983	26	2000	26	58.5	1974	124	34	.0	.4	29.8	.0	.2	.0
Oct	69.4	37.2	53.3	89+	1978	3	57.1	1979	-1	1991	31	47.4	1976	363	1	.0	.0	30.3	.0	7.2	.0
Nov	59.9	27.0	43.5	83+	1956	11	48.3	1998	-9	1957	23	36.4	2000	648	0	.0	.0	25.6	.3	23.8	.0
Dec	53.4	21.4	37.4	78+	1955	20	42.6	1977	-15+	1953	23	32.5	1997	856	0	.0	.0	22.2	.8	28.8	.4
Ann	68.5	37.1	52.8	106	Jun 1896	15	73.3	Jul 1980	-24	Jan 1962	10	32.5	Dec 1997	4836	403	.1	13.3	333.5	3.3	150.5	1.0

+ 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: 1895-2001

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

039-A

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: ELK 2 E, NM

COOP ID: 292865

Climate Division: NM 7

NWS Call Sign:

Elevation: 5,750 Feet Lat: 32°57N

Lon: 105°20W

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	.60	.61	1.24	1980	22	1.39	1991	.00+	2000	2.7	1.8	.3	@	.00	.00	.19	.30	.40	.51	.62	.77	.94	1.24	1.52
Feb	.47	.34	1.02	1988	5	1.68	1973	.00+	1999	2.5	1.7	.2	@	.00	.00	.13	.22	.30	.38	.48	.60	.75	1.00	1.24
Mar	.36	.29	1.00+	1999	18	1.42	1999	.00+	1988	1.9	1.1	.2	@	.00	.00	.00	.06	.16	.26	.36	.48	.63	.89	1.13
Apr	.51	.43	2.30	1963	14	1.51	1992	.00+	1991	2.1	1.5	.2	.1	.00	.00	.08	.18	.27	.38	.50	.65	.85	1.18	1.50
May	1.10	.76	1.90	1986	31	3.62	1986	.00+	2000	3.5	2.6	.5	.2	.00	.00	.08	.28	.50	.74	1.02	1.38	1.88	2.69	3.53
Jun	2.24	1.42	2.66	1986	24	12.43	1986	.03	1994	5.8	4.4	1.4	.6	.06	.15	.36	.64	.98	1.40	1.93	2.64	3.67	5.46	7.29
Jul	2.52	2.29	2.68	1960	6	6.06	1991	.40	1987	7.8	6.2	1.7	.4	.72	.96	1.32	1.63	1.94	2.26	2.61	3.02	3.56	4.41	5.19
Aug	3.55	3.34	3.45	1984	10	7.49	1984	.56	1983	9.1	7.3	2.2	.6	.87	1.20	1.72	2.18	2.64	3.12	3.66	4.29	5.13	6.46	7.70
Sep	3.03	2.55	3.45	1974	21	10.03	1974	.40	2000	6.7	5.9	1.9	.8	.41	.65	1.09	1.51	1.95	2.44	3.00	3.70	4.64	6.18	7.66
Oct	1.42	1.22	1.95	1998	1	5.75	1998	.00+	1995	3.7	3.1	.9	.3	.00	.00	.23	.49	.75	1.04	1.38	1.80	2.38	3.30	4.22
Nov	.64	.49	1.46	1982	26	2.54	1978	.00+	1999	2.1	1.5	.5	.2	.00	.00	.00	.14	.33	.50	.67	.87	1.12	1.55	1.93
Dec	.79	.49	1.40	1960	9	3.01	1997	.00+	2000	2.6	2.0	.4	.1	.00	.00	.04	.17	.32	.49	.70	.97	1.35	1.98	2.64
Ann	17.23+	15.91+	3.45+	Aug 1984	10	12.43	Jun 1986	.00+	Dec 2000	50.5	39.1	10.4	3.3	9.83	11.15	12.89	14.26	15.50	16.73	18.02	19.47	21.27	23.93	26.29

+ 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: 1895-2001

(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: ELK 2 E, NM

COOP ID: 292865

Climate Division: NM 7

NWS Call Sign:

Elevation: 5,750 Feet

Lat: 32° 57N

Lon: 105° 20W

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	5.4	4.5	#	#	15.0	1987	17	18.0	1987	15	1987	17	2+	1996	1.5	1.5	.7	.3	.1	1.8	1.2	.4	.1
Feb	3.4	2.5	#	0	12.0	1988	5	17.0	1988	13	1988	5	1	1988	.9	.9	.5	.2	@	.9	.5	.2	@
Mar	1.4	.0	#	0	6.0	1986	19	9.8	1989	4	1989	4	#+	2000	.5	.5	.3	.1	.0	.1	@	.0	.0
Apr	.7	.0	#	0	9.0	1980	12	9.0	1980	8	1980	12	1	1980	.2	.2	.1	@	.0	.0	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	#	1995	7	#	1995	.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	1.9	.0	#	0	11.0	1976	28	17.0	1976	9	1976	28	1	1976	.4	.4	.3	.1	.1	.3	.2	.1	.0
Nov	1.4	.0	#	0	14.0	1982	26	19.0	1982	17	1982	26	2	1982	.4	.4	.2	.1	@	.4	.2	.2	.1
Dec	5.2	2.0	#	0	16.0	1987	13	31.5	1987	24	1987	14	3	1987	1.3	1.1	.9	.6	.1	1.1	.6	.3	.1
Ann	19.4	9.0	N/A	N/A	16.0	Dec 1987	13	31.5	Dec 1987	24	Dec 1987	14	3	Dec 1987	5.2	5.0	3.0	1.4	.3	4.6	2.7	1.2	.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

Complete documentation available from:

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Climate Division: NM 7

NWS Call Sign:

Elevation: 5,750 Feet

Lat: 32° 57N

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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	5/28	5/24	5/21	5/19	5/16	5/14	5/11	5/08	5/04
32	5/16	5/12	5/09	5/07	5/05	5/02	4/30	4/27	4/23
28	5/06	5/01	4/28	4/25	4/22	4/19	4/16	4/13	4/08
24	4/21	4/17	4/14	4/11	4/09	4/07	4/04	4/01	3/28
20	4/12	4/06	4/02	3/29	3/26	3/22	3/19	3/14	3/08
16	4/04	3/27	3/21	3/16	3/11	3/07	3/02	2/24	2/16
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	9/19	9/23	9/26	9/29	10/01	10/04	10/06	10/09	10/13
32	9/29	10/03	10/07	10/10	10/12	10/15	10/18	10/21	10/26
28	10/06	10/11	10/15	10/19	10/22	10/25	10/28	11/01	11/06
24	10/20	10/25	10/28	10/31	11/03	11/06	11/09	11/12	11/17
20	10/28	11/03	11/07	11/11	11/15	11/18	11/22	11/26	12/02
16	10/31	11/07	11/13	11/17	11/21	11/26	11/30	12/06	12/13
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	156	149	145	141	137	133	130	125	119
32	177	171	167	163	160	157	153	149	143
28	202	195	190	186	182	178	174	169	162
24	226	220	215	211	207	204	200	195	188
20	259	250	244	238	233	228	222	216	207
16	287	276	268	261	254	248	241	233	222

* 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	870	694	608	401	200	40	13	19	124	363	648	856	4836
60	715	554	453	259	100	7	0	1	45	219	498	701	3552
57	622	470	362	183	58	2	0	0	19	145	412	608	2881
55	560	414	302	139	37	1	0	0	9	104	356	546	2468
50	405	278	168	58	9	0	0	0	1	37	227	393	1576
32	27	8	0	0	0	0	0	0	0	0	9	22	66

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	180	238	415	590	850	1053	1147	1104	900	661	352	188	7678
55	0	0	4	40	175	363	434	391	219	52	8	0	1686
57	0	0	1	23	133	305	372	329	169	31	4	0	1367
60	0	0	0	9	82	220	279	237	105	11	0	0	943
65	0	0	0	1	27	103	137	100	34	1	0	0	403
70	0	0	0	0	6	30	43	20	5	0	0	0	104

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	71	106	215	375	618	834	924	884	688	447	181	70	71	177	392	767	1385	2219	3143	4027	4715	5162	5343	5413
45	20	38	102	240	463	684	769	729	539	299	83	21	20	58	160	400	863	1547	2316	3045	3584	3883	3966	3987
50	1	4	36	127	312	534	614	574	389	168	24	3	1	5	41	168	480	1014	1628	2202	2591	2759	2783	2786
55	0	0	4	44	175	384	459	419	248	67	2	0	0	0	4	48	223	607	1066	1485	1733	1800	1802	1802
60	0	0	0	8	69	239	304	265	121	12	0	0	0	0	0	8	77	316	620	885	1006	1018	1018	1018
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	113	145	229	313	429	532	599	566	438	335	194	119	113	258	487	800	1229	1761	2360	2926	3364	3699	3893	4012

(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/normals/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