

# Climatography of the United States

No. 20

1971-2000

Station: ELKO, NV

COOP ID: 262573

Climate Division: NV 2

NWS Call Sign: EKO

Elevation: 5,050 Feet Lat: 40° 50N

Lon: 115° 48W

## 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	37.1	14.1	25.6	64	1990	9	34.5	1981	-43	1937	21	11.6	1989	1222	0	.0	.0	3.0	8.8	29.3	4.8
Feb	42.9	19.7	31.3	70	1986	28	39.0	1980	-37	1933	10	20.5	1993	943	0	.0	.0	7.2	4.3	26.4	1.9
Mar	51.2	25.9	38.6	77	1966	31	44.9	1978	-9	1952	3	33.5	1976	820	0	.0	.0	17.6	.7	25.4	.1
Apr	59.3	29.9	44.6	86+	1981	30	50.0	1990	-2	1936	1	37.6	1975	612	0	.0	.0	23.5	.1	19.5	.0
May	68.6	36.8	52.7	92+	1936	13	56.5+	1992	10	1965	6	48.1	1991	383	2	.0	.3	29.6	.0	7.6	.0
Jun	79.9	43.5	61.7	104	1981	24	69.3	1977	23+	1945	15	56.0	1993	161	62	.2	5.2	29.8	.0	1.3	.0
Jul	89.6	48.6	69.1	107	1981	4	75.9	1985	30+	1932	20	59.7	1993	53	181	1.1	17.8	31.0	.0	.1	.0
Aug	88.1	47.0	67.6	107	1978	4	72.4	1981	20	1992	26	62.0	1993	57	135	.5	14.3	31.0	.0	.4	.0
Sep	78.2	38.1	58.2	99	1950	3	66.1	1979	9	1934	26	53.0	1986	237	31	.0	3.1	29.8	.0	7.5	.0
Oct	65.0	28.3	46.7	88+	1979	1	54.6	1979	1	1996	21	43.1	1998	569	1	.0	.0	27.5	.1	21.7	.0
Nov	48.1	20.9	34.5	78+	1980	4	40.2	1981	-12+	1931	22	25.4	1994	916	0	.0	.0	13.3	2.1	26.3	.7
Dec	38.2	13.8	26.0	65	1995	1	34.7	1977	-38	1932	12	14.5	1990	1208	0	.0	.0	3.4	7.5	29.0	3.5
Ann	62.2	30.6	46.4	107+	Jul 1981	4	75.9	Jul 1985	-43	Jan 1937	21	11.6	Jan 1989	7181	412	1.8	40.7	246.7	23.6	194.5	11.0

+ 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: 1928-2001

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

# Climatography 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: ELKO, NV**

**COOP ID: 262573**

**Climate Division: NV 2**

**NWS Call Sign: EKO**

**Elevation: 5,050 Feet Lat: 40°50N**

**Lon: 115°48W**

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	1.14	.75	1.25	1951	18	3.28	1996	.17	1992	9.2	3.3	.5	@	.16	.25	.41	.57	.74	.92	1.13	1.39	1.75	2.32	2.87
Feb	.88	.79	.89	1936	2	2.32	2000	.06	1988	8.3	3.1	.1	.0	.16	.24	.37	.49	.61	.74	.89	1.07	1.31	1.70	2.06
Mar	.98	.82	.79	1992	3	2.39	1989	.04	1988	9.4	3.3	.2	.0	.12	.20	.34	.47	.62	.78	.97	1.20	1.52	2.04	2.55
Apr	.81	.77	1.07	1943	8	1.98	1978	.02	1992	7.6	2.7	.1	.0	.12	.19	.30	.41	.53	.66	.81	.99	1.23	1.62	2.00
May	1.08	.78	1.73	1971	21	4.09	1971	.00	1974	8.5	3.7	.3	@	.07	.18	.34	.50	.67	.85	1.06	1.33	1.68	2.26	2.82
Jun	.67	.57	1.05	1929	16	1.69	1997	.00+	1994	5.0	2.4	.1	.0	.00	.08	.20	.31	.42	.54	.67	.84	1.06	1.42	1.77
Jul	.30	.22	1.28	2001	8	1.08	1997	.00+	1999	3.5	.9	.1	.0	.00	.02	.07	.11	.16	.22	.29	.37	.49	.68	.87
Aug	.36	.22	4.13	1970	27	1.37	1997	.00+	1998	3.6	1.1	.1	@	.00	.01	.04	.08	.14	.21	.30	.43	.61	.92	1.25
Sep	.68	.37	2.25	1978	5	3.22	1978	.00	1974	4.8	2.1	.3	@	.00	.02	.08	.16	.27	.40	.57	.79	1.13	1.71	2.32
Oct	.71	.61	1.31	1939	2	1.92	1972	.00+	1995	4.9	2.2	.3	.0	.00	.04	.15	.26	.38	.52	.68	.88	1.16	1.63	2.10
Nov	1.05	.98	1.33	1930	16	2.76	1983	.07	1993	7.6	3.6	.4	.0	.19	.28	.43	.58	.72	.88	1.06	1.28	1.58	2.05	2.50
Dec	.93	.62	1.60	1950	3	4.21	1983	.00	1976	8.1	3.1	.2	.0	.02	.07	.19	.32	.47	.64	.85	1.13	1.51	2.17	2.82
Ann	9.59	8.70	4.13	Aug 1970	27	4.21	Dec 1983	.00+	Jul 1999	80.5	31.5	2.7	.0	5.29	6.04	7.05	7.85	8.57	9.29	10.05	10.90	11.96	13.54	14.94

+ 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: 1928-2001

(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: ELKO, NV

COOP ID: 262573

Climate Division: NV 2

NWS Call Sign: EKO

Elevation: 5,050 Feet

Lat: 40° 50N

Lon: 115° 48W

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	9.4	6.9	1	0	18.4	1996	24	45.7	1996	11	1989	9	8	1989	7.3	3.2	.8	.2	@	11.9	5.9	3.2	.2
Feb	5.7	5.4	1	0	8.4	1996	4	15.9	1993	8+	1989	7	4+	1990	5.0	2.0	.6	.1	.0	4.8	1.6	.8	.0
Mar	4.4	3.6	#	0	7.4	1998	28	13.8	1982	3+	1985	6	#	1991	4.5	1.8	.3	.1	.0	1.6	.2	.0	.0
Apr	2.6	1.2	#	0	9.3	1975	5	16.6	1999	9	1975	6	1	1975	2.6	.9	.2	@	.0	.6	.2	.1	.0
May	1.2	.2	#	0	7.8	1971	21	11.3	1971	8	1975	4	#	1992	1.0	.3	.1	@	.0	.2	@	@	.0
Jun	#	.0	#	0	#	1995	6	#+	1995	0	0	0	#	1975	.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	#	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.1	.0	0	0	2.0	1982	30	2.0	1982	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.8	.0	#	0	3.0	1984	16	5.6	1984	2+	1991	31	#	1991	.9	.3	@	.0	.0	.2	.0	.0	.0
Nov	5.0	4.4	#	0	6.0	1982	30	15.9	1985	6	1985	24	1+	1989	4.1	2.2	.3	.1	.0	3.0	.9	.1	.0
Dec	7.4	5.0	1	0	9.3	1992	17	33.2	1983	7+	1988	25	3	1983	5.7	2.7	.6	.2	.0	7.2	2.6	1.1	.0
Ann	36.6	26.7	N/A	N/A	18.4	Jan 1996	24	45.7	Jan 1996	11	Jan 1989	9	8	Jan 1989	31.1	13.4	2.9	.7	@	29.5	11.4	5.3	.2

+ 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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**Elevation: 5,050 Feet**

**Lat: 40° 50N**

**Lon: 115° 48W**

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	7/23	7/15	7/09	7/05	6/30	6/26	6/21	6/15	6/07
32	7/02	6/24	6/18	6/13	6/09	6/04	5/30	5/24	5/16
28	6/09	6/02	5/28	5/24	5/20	5/16	5/12	5/07	4/30
24	5/23	5/17	5/12	5/08	5/04	4/30	4/26	4/21	4/14
20	5/09	5/01	4/26	4/21	4/16	4/12	4/07	4/01	3/24
16	4/23	4/12	4/05	3/29	3/23	3/17	3/10	3/03	2/20
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	8/07	8/14	8/19	8/24	8/28	9/01	9/05	9/11	9/18
32	8/25	8/30	9/03	9/07	9/10	9/13	9/17	9/21	9/26
28	9/02	9/09	9/14	9/18	9/22	9/25	9/30	10/04	10/11
24	9/09	9/16	9/21	9/25	9/30	10/04	10/08	10/13	10/20
20	9/23	9/30	10/06	10/10	10/15	10/19	10/23	10/29	11/05
16	10/05	10/11	10/16	10/20	10/24	10/27	10/31	11/05	11/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	96	83	74	66	58	50	42	33	20
32	124	114	106	99	93	86	80	72	61
28	152	142	135	129	124	118	112	105	95
24	181	170	161	154	148	141	135	126	115
20	217	204	195	188	181	173	166	157	145
16	251	239	229	221	214	207	199	189	176

\* 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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**Elevation: 5,050 Feet    Lat: 40° 50N    Lon: 115° 48W**

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	1222	943	820	612	383	161	53	57	237	569	916	1208	7181
60	1067	803	665	464	241	80	18	17	136	419	766	1053	5729
57	974	719	572	379	167	46	8	6	89	334	676	960	4930
55	912	663	510	324	126	29	4	3	65	281	616	898	4431
50	764	530	359	200	50	8	0	0	24	167	472	743	3317
32	298	145	23	6	0	0	0	0	0	4	93	265	834

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	99	126	227	384	642	891	1151	1102	785	459	167	80	6113
55	0	0	0	11	55	230	442	391	160	23	0	0	1312
57	0	0	0	6	34	186	384	333	124	13	0	0	1080
60	0	0	0	2	15	131	300	250	80	5	0	0	783
65	0	0	0	0	2	62	181	135	31	1	0	0	412
70	0	0	0	0	0	22	95	58	9	0	0	0	184

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	0	15	69	180	403	659	912	866	557	245	44	4	0	15	84	264	667	1326	2238	3104	3661	3906	3950	3954
45	0	0	20	88	264	509	757	711	412	132	10	0	0	0	20	108	372	881	1638	2349	2761	2893	2903	2903
50	0	0	0	31	146	364	602	556	273	56	1	0	0	0	0	31	177	541	1143	1699	1972	2028	2029	2029
55	0	0	0	7	68	230	448	402	152	13	0	0	0	0	0	7	75	305	753	1155	1307	1320	1320	1320
60	0	0	0	0	17	119	298	255	71	1	0	0	0	0	0	0	17	136	434	689	760	761	761	761
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	25	72	167	300	440	574	565	423	251	62	5	0	25	97	264	564	1004	1578	2143	2566	2817	2879	2884

(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](http://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](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> |
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## 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)