

Climatography of the United States

No. 20

1971-2000

Station: ELY, NV

COOP ID: 262631

Climate Division: NV 2

NWS Call Sign: ELY

Elevation: 6,262 Feet Lat: 39° 18N

Lon: 114° 51W

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	40.0	10.4	25.2	68	1951	25	34.4	1986	-27	1949	25	17.1	1979	1240	0	.0	.0	5.3	6.4	30.5	6.8
Feb	44.0	15.6	29.8	67+	1986	24	37.9	1995	-30	1989	6	20.3	1993	996	0	.0	.0	8.4	3.3	27.5	3.1
Mar	49.9	21.9	35.9	73	1966	31	41.7	1989	-13	1952	3	28.4	1977	903	0	.0	.0	16.4	.8	28.6	.6
Apr	57.9	26.4	42.2	82	1992	28	48.8	1989	-5+	1963	22	34.1	1975	690	0	.0	.0	22.9	.2	24.2	.1
May	67.3	33.4	50.4	90	1997	31	54.6+	1992	7	1950	4	44.9	1977	459	0	.0	@	28.8	.0	14.2	.0
Jun	79.2	40.6	59.9	99	1954	22	63.8	1974	18	1976	14	54.0	1995	178	22	.0	3.0	29.8	.0	3.2	.0
Jul	87.3	47.4	67.4	101	1998	18	70.0	1989	28	1997	1	62.1	1993	26	98	.1	12.5	31.0	.0	.2	.0
Aug	85.1	46.4	65.8	97+	1977	2	69.0	1986	24	1960	23	60.7	1976	48	69	.0	7.2	31.0	.0	.4	.0
Sep	75.8	37.5	56.7	93+	1950	1	61.1	1979	15+	1968	21	51.5	1986	258	7	.0	.5	29.6	.0	7.8	.0
Oct	63.0	27.8	45.4	85	1996	9	52.0	1988	-3+	1971	30	40.2	1984	605	0	.0	.0	26.5	.2	23.4	.1
Nov	48.8	18.2	33.5	75	1975	4	39.9	1999	-15+	1964	14	25.8	2000	938	0	.0	.0	14.4	2.3	28.4	1.5
Dec	41.0	10.6	25.8	67	1958	3	33.8	1981	-29	1990	22	17.9	1990	1220	0	.0	.0	6.6	6.2	30.7	5.7
Ann	61.6	28.0	44.8	101	Jul 1998	18	70.0	Jul 1989	-30	Feb 1989	6	17.1	Jan 1979	7561	196	.1	23.2	250.7	19.4	219.1	17.9

+ 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/normals/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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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: ELY, NV

COOP ID: 262631

Climate Division: NV 2

NWS Call Sign: ELY

Elevation: 6,262 Feet Lat: 39°18N

Lon: 114°51W

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	.74	.61	.88	1967	24	2.08	1993	.11	1991	7.4	2.5	.2	.0	.17	.24	.35	.45	.54	.64	.76	.89	1.07	1.36	1.62
Feb	.75	.69	1.38	1969	25	1.67	1998	.01	1972	7.2	2.8	.1	.0	.08	.14	.24	.34	.46	.58	.73	.91	1.16	1.57	1.97
Mar	1.05	1.07	1.02	1998	27	2.17	1973	.03	1997	8.5	3.8	.2	@	.16	.24	.40	.54	.69	.86	1.05	1.29	1.60	2.12	2.61
Apr	.90	.84	.80	1988	17	3.41	1978	.00	1989	7.2	3.1	.2	.0	.06	.15	.29	.42	.56	.72	.89	1.11	1.41	1.89	2.36
May	1.29	1.18	1.37	1955	31	3.26	1977	.30	1974	8.4	3.6	.6	.0	.21	.32	.51	.69	.87	1.07	1.30	1.57	1.95	2.55	3.12
Jun	.66	.46	1.44	1963	10	2.28	1983	.00+	1994	4.5	2.1	.3	.1	.00	.00	.09	.18	.30	.43	.59	.80	1.10	1.61	2.12
Jul	.60	.35	1.20	1952	24	2.30	1987	.00	2000	5.2	1.7	.2	.0	.01	.04	.11	.20	.29	.40	.54	.72	.97	1.40	1.84
Aug	.91	.70	1.01	1992	6	2.51	1983	.00	1985	6.1	2.4	.5	@	.03	.10	.22	.35	.50	.66	.86	1.11	1.46	2.04	2.61
Sep	.94	.55	2.52	1982	26	4.99	1982	.01	1974	5.2	2.2	.4	.1	.03	.07	.16	.28	.42	.59	.82	1.11	1.53	2.27	3.02
Oct	1.00	.95	1.09+	1968	14	3.67	1981	.00	1999	5.5	3.0	.4	@	.17	.31	.48	.61	.75	.89	1.04	1.22	1.46	1.83	2.18
Nov	.63	.51	1.17	1960	6	1.55	1985	.01	1995	5.8	1.9	.3	@	.06	.10	.19	.28	.37	.48	.60	.76	.98	1.35	1.70
Dec	.50	.42	.84	1966	5	1.45	1983	.00	1976	5.8	1.8	.1	.0	.02	.06	.14	.21	.29	.38	.48	.62	.80	1.10	1.39
Ann	9.97	9.78	2.52	Sep 1982	26	4.99	Sep 1982	.00+	Jul 2000	76.8	30.9	3.5	.2	5.86	6.60	7.57	8.33	9.02	9.69	10.40	11.20	12.18	13.63	14.91

+ 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

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www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: ELY, NV

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Climate Division: NV 2

NWS Call Sign: ELY

Elevation: 6,262 Feet

Lat: 39° 18N

Lon: 114° 51W

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	9.2	7.2	2	1	8.1	1988	5	24.3	1993	14+	1993	19	9	1993	6.6	2.9	.9	.2	.0	17.4	10.1	5.1	.9
Feb	7.2	6.2	2	2	7.0	1976	4	20.0	1976	16+	1993	28	12	1993	5.7	2.5	.7	.2	.0	12.7	6.6	3.4	1.0
Mar	9.7	9.6	1	1	7.7	1974	2	24.0	1973	16	1993	1	6	1993	7.0	3.3	1.1	.3	.0	5.1	2.5	1.2	.4
Apr	5.4	3.5	#	0	6.3	1981	2	18.5	1978	6	1984	2	1	1975	3.8	1.7	.7	.2	.0	1.8	.5	.1	.0
May	3.2	2.0	#	0	7.6	1975	4	12.1	1975	5	1975	5	#	1995	2.6	1.1	.3	.1	.0	.4	.1	@	.0
Jun	.1	.0	#	0	1.5	1979	17	1.5	1979	1	1990	1	#	1990	.3	.1	.0	.0	.0	@	.0	.0	.0
Jul	#	.0	0	0	#	1992	1	#	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	#	.0	0	0	#	1993	26	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.6	.0	0	0	3.7	1986	24	6.3	1982	#+	1986	25	0	0	.4	.2	@	.0	.0	.0	.0	.0	.0
Oct	3.1	1.6	#	0	6.8	1978	31	12.1	1981	5	1971	28	1	1971	2.2	1.0	.4	.1	.0	.8	.2	@	.0
Nov	6.0	4.0	#	0	11.7	1985	11	17.3	1985	10+	1978	12	3	1985	4.4	1.6	.6	.3	@	4.4	1.9	1.1	.1
Dec	7.0	7.9	1	1	8.3	1988	25	18.0	1988	11+	1988	29	3	1988	5.5	2.3	.7	.2	.0	11.8	3.8	1.2	.3
Ann	51.5	42.0	N/A	N/A	11.7	Nov 1985	11	24.3	Jan 1993	16+	Mar 1993	1	12	Feb 1993	38.5	16.7	5.4	1.6	@	54.4	25.7	12.1	2.7

+ 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: 6,262 Feet

Lat: 39° 18N

Lon: 114° 51W

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	7/15	7/09	7/05	7/02	6/28	6/25	6/21	6/17	6/12
32	7/05	6/29	6/25	6/22	6/18	6/15	6/11	6/07	6/01
28	6/21	6/15	6/11	6/07	6/04	5/31	5/28	5/23	5/17
24	6/05	5/30	5/25	5/22	5/18	5/14	5/10	5/06	4/30
20	5/19	5/13	5/08	5/04	5/01	4/27	4/23	4/18	4/12
16	5/05	4/27	4/22	4/17	4/12	4/08	4/03	3/28	3/20
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	8/11	8/16	8/21	8/24	8/27	8/31	9/03	9/07	9/13
32	8/22	8/27	8/31	9/03	9/06	9/09	9/12	9/16	9/21
28	9/02	9/07	9/12	9/15	9/18	9/22	9/25	9/30	10/05
24	9/13	9/19	9/23	9/26	9/29	10/02	10/06	10/10	10/15
20	9/25	10/01	10/05	10/09	10/12	10/16	10/19	10/24	10/30
16	10/07	10/13	10/18	10/22	10/25	10/29	11/02	11/07	11/13
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	85	76	70	64	59	54	49	43	34
32	104	95	89	84	79	74	69	63	54
28	129	121	115	110	106	101	96	91	83
24	159	150	144	139	134	129	123	117	108
20	191	182	175	169	164	159	153	146	137
16	224	214	207	201	195	190	184	177	167

* 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	1240	996	903	690	459	178	26	48	258	605	938	1220	7561
60	1079	845	747	535	310	93	4	13	140	453	796	1060	6075
57	986	761	654	450	231	55	1	4	86	364	706	967	5265
55	924	705	592	395	184	36	0	1	59	308	646	905	4755
50	769	565	443	264	92	9	0	0	17	185	499	750	3593
32	265	147	62	19	0	0	0	0	0	5	98	246	842

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	35	75	174	319	569	835	1096	1046	739	426	141	40	5495
55	0	0	0	3	35	181	384	334	112	6	0	0	1055
57	0	0	0	1	19	137	323	274	78	2	0	0	834
60	0	0	0	0	6	81	234	189	40	0	0	0	550
65	0	0	0	0	0	22	98	69	7	0	0	0	196
70	0	0	0	0	0	2	20	10	0	0	0	0	32

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	11	43	140	341	607	855	808	508	216	40	0	0	11	54	194	535	1142	1997	2805	3313	3529	3569	3569
45	0	0	9	63	209	459	700	653	365	111	8	0	0	0	9	72	281	740	1440	2093	2458	2569	2577	2577
50	0	0	0	20	106	315	545	498	229	40	0	0	0	0	0	20	126	441	986	1484	1713	1753	1753	1753
55	0	0	0	0	37	192	391	343	121	7	0	0	0	0	0	0	37	229	620	963	1084	1091	1091	1091
60	0	0	0	0	6	85	240	198	42	0	0	0	0	0	0	0	6	91	331	529	571	571	571	571
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	8	33	65	151	281	433	552	539	395	228	70	12	8	41	106	257	538	971	1523	2062	2457	2685	2755	2767

(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
- 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.

- 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
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