

Climatology of the United States

No. 20 1971-2000

Station: EUREKA, NV

COOP ID: 262708

Climate Division: NV 2

NWS Call Sign:

Elevation: 6,540 Feet Lat: 39° 31N

Lon: 115° 58W

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	36.9	16.3	26.6	61	1969	7	34.3	1986	-13+	1974	2	20.1	1979	1191	0	.0	.0	3.0	8.4	29.6	1.9
Feb	40.7	19.3	30.0	64+	1977	16	39.6	1995	-18+	1989	6	23.3	1989	980	0	.0	.0	5.9	4.9	26.2	.9
Mar	46.9	24.0	35.5	72	1966	31	42.4	1986	-9	1971	3	28.0	1977	917	0	.0	.0	13.3	1.5	25.8	.1
Apr	54.9	28.8	41.9	80+	1969	20	49.3	1992	5	1955	4	31.5	1975	694	0	.0	.0	21.4	.5	20.1	.0
May	64.5	36.5	50.5	89	1954	19	57.0	1992	10	1965	6	44.3	1977	454	4	.0	.0	28.4	@	9.7	.0
Jun	75.8	44.6	60.2	98	1954	22	64.9	1986	23+	1957	16	54.8	1995	183	38	.0	1.3	29.7	.0	1.4	.0
Jul	84.5	52.4	68.5	99	1955	14	71.3	1994	29	1959	5	63.2	1993	22	130	.0	6.6	31.0	.0	.0	.0
Aug	82.6	51.6	67.1	97	1979	3	71.1	1971	32	1974	20	61.5	1976	46	110	.0	3.8	31.0	.0	@	.0
Sep	73.5	43.7	58.6	93	1955	5	63.8	1979	15	1965	18	51.5	1986	214	22	.0	.1	29.6	.0	2.4	.0
Oct	61.3	33.6	47.5	83	1980	3	54.3	1988	3	1971	30	41.3	1984	546	1	.0	.0	26.2	.4	12.5	.0
Nov	46.0	23.4	34.7	72+	1976	5	43.8	1999	-5+	1955	15	26.7	1994	908	0	.0	.0	12.0	3.5	24.2	.2
Dec	38.1	16.7	27.4	63	1995	1	34.1	1980	-21	1990	22	20.2	1990	1167	0	.0	.0	3.9	7.1	29.4	1.6
Ann	58.8	32.6	45.7	99	Jul 1955	14	71.3	Jul 1994	-21	Dec 1990	22	20.1	Jan 1979	7322	305	.0	11.8	235.4	26.3	181.3	4.7

+ 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: 1952-2001

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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	Median	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	1.00	.93	2.24	1989	11	2.59	1989	.00+	1998	5.9	3.1	.3	.1	.00	.09	.26	.41	.58	.76	.98	1.24	1.60	2.20	2.78	
Feb	.91	.82	1.32	1994	8	2.91	1994	.03	1999	5.3	2.9	.3	.1	.11	.18	.30	.43	.56	.71	.89	1.11	1.40	1.89	2.36	
Mar	1.45	1.16	1.85	1987	15	3.88	1987	.00+	1999	7.6	4.3	.7	.1	.00	.14	.39	.62	.86	1.12	1.43	1.81	2.32	3.17	4.00	
Apr	1.16	.88	1.50	1956	27	3.68	1978	.00+	1992	5.9	3.4	.6	.1	.00	.08	.26	.44	.63	.85	1.11	1.43	1.88	2.63	3.36	
May	1.54	1.14	1.65	1987	17	4.63	1980	.00+	1999	6.2	3.9	1.1	.1	.00	.17	.44	.69	.94	1.22	1.54	1.92	2.44	3.30	4.13	
Jun	.74	.51	1.63	1999	3	1.83	1997	.00+	1996	4.2	2.1	.3	@	.00	.04	.15	.27	.39	.53	.70	.91	1.20	1.69	2.17	
Jul	.55	.27	1.06	1980	1	2.41	1984	.00+	1999	3.3	1.5	.4	.1	.00	.00	.01	.08	.17	.28	.44	.65	.95	1.48	2.04	
Aug	.83	.43	1.55	1977	18	4.42	1983	.00+	1996	3.9	2.1	.5	.1	.00	.00	.09	.20	.34	.51	.72	1.00	1.39	2.07	2.75	
Sep	1.00	.70	1.71	1982	26	4.19	1982	.00+	1989	3.8	2.3	.6	.2	.00	.03	.13	.27	.43	.63	.88	1.20	1.66	2.47	3.28	
Oct	1.05	1.02	1.40	1993	11	3.25	1975	.00	1995	4.5	2.6	.7	.1	.07	.18	.34	.50	.66	.84	1.04	1.30	1.64	2.20	2.74	
Nov	.95	.77	1.26	1971	12	3.56	1987	.01	1993	4.7	2.6	.5	.1	.07	.14	.26	.39	.54	.71	.91	1.16	1.51	2.10	2.68	
Dec	.88	.80	1.19	1983	27	3.65	1983	.00+	1999	5.6	2.3	.3	.1	.00	.06	.19	.32	.47	.64	.83	1.08	1.42	1.99	2.56	
Ann	12.06	10.86	2.24	Jan 1989	11	4.63	May 1980	.00+	Dec 1999	60.9	33.1	6.3	1.2	6.57	7.53	8.81	9.82	10.74	11.66	12.62	13.71	15.06	17.08	18.87	

+ 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: 1952-2001

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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	12.7	11.0	1	0	23.0	1983	20	41.0	1983	12+	1975	11	6	1975	5.2	4.5	1.3	.3	.1	10.7	7.8	4.8	.4
Feb	6.9	4.5	1	0	6.0	1978	10	27.0	1978	7+	1976	5	3+	1975	3.8	2.9	.6	.1	.0	6.2	3.5	.6	.0
Mar	11.4	11.6	#	0	11.0	1990	5	34.0	1973	11	1973	13	2	1973	4.7	3.8	1.3	.5	@	2.9	1.3	.5	.1
Apr	6.6	3.0	#	0	13.5	1983	11	29.5	1975	15	1983	12	2+	1984	2.6	2.0	.8	.2	.1	1.5	.8	.4	.2
May	4.0	.0	#	0	10.0	1973	5	27.0	1980	7	1980	24	1	1980	1.2	1.0	.5	.3	@	.6	.3	.2	.0
Jun	.1	.0	#	0	2.0	1971	1	2.0	1971	0	0	0	#	1971	.1	.1	.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	.7	.0	0	0	7.0	1982	30	13.0	1982	0	0	0	0	0	.2	.2	.1	.1	.0	.0	.0	.0	.0
Oct	2.0	.0	#	0	6.0	1975	12	21.5	1975	4+	1975	23	1	1975	1.0	.8	.3	.1	.0	.5	.1	.0	.0
Nov	7.3	5.5	#	0	15.0	1988	14	24.3	1988	11	1973	24	3	1973	2.7	2.5	.6	.3	@	2.6	2.0	1.1	.2
Dec	9.3	6.0	1	0	13.0	1983	27	32.3	1983	12+	1972	14	6	1971	4.4	3.4	1.0	.4	.1	8.5	6.7	3.6	.9
Ann	61.0	41.6	N/A	N/A	23.0	Jan 1983	20	41.0	Jan 1983	15	Apr 1983	12	6+	Jan 1975	25.9	21.2	6.5	2.3	.3	33.5	22.5	11.2	1.8

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-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	7/03	6/27	6/24	6/21	6/18	6/15	6/12	6/08	6/03
32	6/20	6/14	6/10	6/07	6/04	6/01	5/29	5/25	5/19
28	6/10	6/04	5/31	5/27	5/24	5/20	5/16	5/12	5/06
24	5/24	5/17	5/13	5/09	5/06	5/02	4/28	4/24	4/18
20	5/10	5/02	4/27	4/22	4/18	4/14	4/09	4/04	3/27
16	4/21	4/13	4/07	4/01	3/27	3/22	3/17	3/11	3/02
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	8/27	9/02	9/06	9/09	9/12	9/15	9/19	9/23	9/29
32	9/05	9/11	9/15	9/19	9/23	9/26	9/30	10/04	10/11
28	9/18	9/24	9/28	10/02	10/05	10/09	10/12	10/17	10/23
24	9/27	10/03	10/08	10/11	10/15	10/18	10/22	10/27	11/02
20	10/12	10/18	10/22	10/25	10/29	11/01	11/05	11/09	11/15
16	10/24	10/29	11/02	11/05	11/07	11/10	11/13	11/17	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	107	100	95	90	86	82	77	72	64
32	131	124	118	114	110	106	101	96	89
28	160	151	144	139	134	129	123	117	108
24	193	182	174	168	162	155	149	141	130
20	218	209	203	198	193	188	183	177	169
16	252	243	236	230	224	219	213	206	196

* 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	1191	980	917	694	454	183	22	46	214	546	908	1167	7322
60	1036	840	762	549	314	94	3	10	112	398	758	1012	5888
57	943	756	669	466	240	57	1	3	68	315	668	919	5105
55	881	700	607	411	197	39	0	1	46	264	610	857	4613
50	726	560	459	287	109	12	0	0	13	157	467	702	3492
32	225	145	74	32	2	0	0	0	0	5	94	213	790

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	56	88	181	327	575	845	1130	1087	798	484	175	69	5815
55	0	0	1	17	57	194	417	375	155	30	1	0	1247
57	0	0	0	12	38	153	356	315	116	19	0	0	1009
60	0	0	0	5	20	100	265	229	70	8	0	0	697
65	0	0	0	0	4	38	130	110	22	1	0	0	305
70	0	0	0	0	0	10	40	35	4	0	0	0	89

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	2	15	52	156	366	634	907	862	581	291	66	4	2	17	69	225	591	1225	2132	2994	3575	3866	3932	3936
45	0	0	14	79	235	487	752	707	434	176	22	0	0	0	14	93	328	815	1567	2274	2708	2884	2906	2906
50	0	0	0	35	130	346	597	552	295	86	4	0	0	0	0	35	165	511	1108	1660	1955	2041	2045	2045
55	0	0	0	10	59	217	442	399	172	33	0	0	0	0	0	10	69	286	728	1127	1299	1332	1332	1332
60	0	0	0	0	18	113	292	252	78	7	0	0	0	0	0	0	18	131	423	675	753	760	760	760
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	15	50	132	255	415	586	563	379	214	50	3	0	15	65	197	452	867	1453	2016	2395	2609	2659	2662

(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 are 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/usnormalprods.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