U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: AUSTIN, NV **COOP ID: 260507**

Climate Division: NV 2 **NWS Call Sign: U31** **Elevation: 6,605 Feet** **Lat: 39˚30N** **Lon: 117˚04W**

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	40.6	19.2	29.9	65	1951	25	37.9	1986	-25	1922	19	23.7	1979	1089	0	.0	.0	6.1	4.1	28.9	.8
Feb	44.0	21.6	32.8	70	1986	28	41.2	1995	-18	1933	8	28.0	1993	902	0	.0	.0	9.0	2.4	25.4	.4
Mar	48.2	25.7	37.0	74	1966	31	43.1	1972	-6	1971	2	30.2	1977	869	0	.0	.0	15.9	.8	24.5	.1
Apr	54.4	30.2	42.3	83	1981	30	49.9	1992	3	1936	5	33.1	1975	681	0	.0	.0	22.2	.1	18.0	.0
May	63.5	37.8	50.7	91	1927	16	58.8	1992	12	1938	3	42.9	1977	456	11	.0	.0	28.1	.0	7.8	.0
Jun	75.6	46.0	60.8	97+	1924	30	66.2	1974	23	1995	7	53.2	1995	180	54	.0	2.3	29.7	.0	1.2	.0
Jul	85.0	53.6	69.3	105+	1922	4	73.1	1994	35	2001	30	64.8	1993	19	153	.1	11.8	31.0	.0	.0	.0
Aug	83.3	52.7	68.0	100	1928	10	73.3	1998	30	1943	30	61.2	1976	43	136	.0	8.7	31.0	.0	@	.0
Sep	74.1	45.0	59.6	97	1950	1	64.4	1979	17	2000	26	52.7	1986	195	32	.0	.7	29.6	.0	2.1	.0
Oct	61.9	35.4	48.7	86+	1958	4	56.7	1988	2	1935	31	40.6	1984	511	4	.0	.0	27.1	.3	10.5	.0
Nov	47.6	25.4	36.5	75	1980	5	45.7	1995	-7	1931	22	27.8	1994	855	0	.0	.0	14.5	1.7	23.0	@
Dec	40.7	19.4	30.1	70	1958	3	37.7	1980	-20	1932	11	22.3	1990	1083	0	.0	.0	7.2	4.6	28.6	1.1
Ann	59.9	34.3	47.1	105+	Jul 1922	4	73.3	Aug 1998	-25	Jan 1922	19	22.3	Dec 1990	6883	390	.1	23.5	251.4	14.0	170.0	2.4

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1921-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.49	1.37	1.64	1982	5	3.49	1983	.12	1986
Feb	1.18	1.10	1.60	1978	11	2.95	1978	.07	1999
Mar	1.88	1.68	1.76	1981	27	4.19	1973	.14	1997
Apr	1.62	1.20	2.01	1994	24	5.96	1978	.00	2000
May	1.98	1.44	1.57	1932	4	7.75	1998	.20+	1992
Jun	.86	.79	1.57	1928	11	2.35	1998	.00+	1994
Jul	.48	.26	1.99	1925	5	2.08	1984	.00+	1999
Aug	.64	.45	1.36	1989	22	2.37	1983	.00+	1997
Sep	.80	.48	1.65	1976	15	3.45	1976	.00+	1999
Oct	1.01	.88	2.04	1946	1	2.48	1984	.00	1995
Nov	1.18	.90	1.18	1965	24	3.73	1985	.07	1995
Dec	1.21	1.00	1.19	1983	27	4.19	1983	.04	1980
Ann	14.33	13.53	2.04	Oct 1946	1	7.75	May 1998	.00+	Apr 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.3	4.4	.4	.1
Feb	6.9	3.8	.4	.1
Mar	9.5	4.8	.8	.2
Apr	6.9	4.1	.8	.1
May	7.2	4.3	1.4	.3
Jun	4.6	2.4	.4	.0
Jul	3.1	1.3	.2	.0
Aug	4.2	1.9	.3	.1
Sep	3.9	2.1	.4	.1
Oct	4.4	2.7	.6	.1
Nov	6.5	3.5	.5	.0
Dec	6.7	3.6	.5	.1
Ann	72.2	38.9	6.7	1.2

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.27	.40	.62	.82	1.03	1.25	1.51	1.82	2.23	2.90	3.53
Feb	.19	.30	.47	.63	.80	.98	1.19	1.44	1.78	2.33	2.86
Mar	.35	.52	.80	1.05	1.31	1.59	1.91	2.29	2.80	3.61	4.39
Apr	.09	.25	.50	.74	.99	1.27	1.60	2.00	2.55	3.45	4.32
May	.17	.30	.57	.84	1.14	1.49	1.90	2.42	3.13	4.32	5.49
Jun	.00	.00	.19	.33	.48	.65	.84	1.08	1.39	1.92	2.44
Jul	.00	.00	.00	.10	.20	.31	.44	.60	.83	1.21	1.59
Aug	.00	.00	.05	.15	.26	.39	.56	.78	1.09	1.61	2.14
Sep	.00	.00	.08	.19	.32	.48	.69	.96	1.34	2.01	2.69
Oct	.05	.14	.29	.44	.60	.78	.99	1.25	1.60	2.19	2.76
Nov	.12	.21	.37	.54	.71	.91	1.15	1.44	1.84	2.50	3.14
Dec	.08	.16	.31	.48	.67	.88	1.14	1.47	1.92	2.69	3.46
Ann	7.90	9.02	10.53	11.72	12.80	13.88	15.01	16.28	17.87	20.22	22.32

+ 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: 1921-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	13.4	13.1	4	3
Feb	11.5	10.7	3	2
Mar	16.5	13.6	1	1
Apr	11.0	6.8	1	#
May	6.0	3.0	#	#
Jun	.2	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.4	.0	#	0
Oct	3.0	.7	#	0
Nov	7.7	7.4	1	#
Dec	8.8	8.9	2	2
Ann	78.5	64.2	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	18.6	1982	5	32.4	1982	27	1982	6	9	1992
Feb	16.8	1978	11	30.0	1978	21	1978	16	12	1978
Mar	15.4	1981	27	48.6	1973	24	1979	29	7	1987
Apr	22.0	1978	7	40.9	1975	20+	1994	24	5	1975
May	10.4	1975	4	24.6	1975	13	1980	11	3	1998
Jun	2.2	1995	6	2.7	1993	#	1993	5	#	1993
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	7.9	1982	29	8.1	1982	6	1982	29	#+	1986
Oct	20.0	1971	16	27.4	1971	17	1971	17	3	1998
Nov	8.0	1971	12	32.7	1985	10	1985	18	5	1985
Dec	10.4	1983	27	24.5	1971	15	1988	29	6+	1990
Ann	22.0	Apr 1978	7	48.6	Mar 1973	27	Jan 1982	6	12	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.1	3.7	1.5	.6	.1
Feb	5.6	3.2	1.2	.5	@
Mar	6.8	3.9	1.5	.8	.3
Apr	4.1	2.7	1.2	.7	.1
May	1.9	1.5	.8	.5	@
Jun	.2	.1	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.2	.1	@	@	.0
Oct	1.6	1.0	.2	.1	@
Nov	4.6	2.6	.9	.2	.0
Dec	5.5	3.3	1.1	.4	.1
Ann	37.6	22.1	8.4	3.8	.6

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	13.1	9.9	6.8	2.0
Feb	8.1	5.1	3.1	1.0
Mar	4.3	2.6	1.6	.8
Apr	2.0	.9	.4	.2
May	.8	.5	.3	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.1	.1	@	.0
Oct	.9	.6	.2	.0
Nov	4.9	2.5	1.5	.1
Dec	9.3	5.0	3.0	.7
Ann	43.5	27.2	16.9	4.8

+ 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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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	6/26	6/22	6/18	6/15	6/13	6/10	6/07	6/04	5/30
32	6/16	6/11	6/08	6/05	6/02	5/30	5/27	5/23	5/18
28	6/09	6/04	5/31	5/27	5/24	5/21	5/18	5/14	5/08
24	5/26	5/18	5/12	5/07	5/03	4/28	4/23	4/17	4/09
20	5/07	4/29	4/24	4/19	4/15	4/10	4/05	3/31	3/23
16	4/22	4/14	4/09	4/04	3/31	3/27	3/22	3/17	3/09

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	8/26	9/02	9/06	9/10	9/14	9/17	9/21	9/26	10/02
32	9/08	9/14	9/18	9/22	9/25	9/29	10/03	10/07	10/13
28	9/21	9/27	10/02	10/06	10/10	10/14	10/18	10/23	10/29
24	10/03	10/09	10/13	10/17	10/21	10/24	10/28	11/01	11/07
20	10/14	10/19	10/23	10/26	10/29	11/02	11/05	11/09	11/14
16	10/25	10/30	11/03	11/07	11/10	11/13	11/17	11/21	11/27

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	111	105	100	96	92	89	85	80	74
32	135	128	123	119	115	111	107	102	95
28	163	155	148	143	138	133	128	121	113
24	202	191	183	176	170	164	157	150	139
20	225	216	209	203	197	192	186	179	169
16	251	242	235	229	223	218	212	205	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	1089	902	869	681	456	180	19	43	195	511	855	1083	6883
60	934	762	714	537	320	97	3	10	101	369	705	928	5480
57	841	678	621	453	250	62	1	4	62	292	616	835	4715
55	779	622	561	399	208	44	0	1	42	245	557	773	4231
50	624	482	414	276	123	15	0	0	12	147	416	619	3128
32	141	82	54	28	4	0	0	0	0	5	66	168	548

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	76	105	207	337	581	864	1156	1116	827	522	201	108	6100
55	0	0	2	18	73	217	443	404	179	49	2	0	1387
57	0	0	0	12	53	176	382	344	139	33	1	0	1140
60	0	0	0	6	30	121	291	258	88	17	0	0	811
65	0	0	0	0	11	54	153	136	32	4	0	0	390
70	0	0	0	0	2	17	56	53	8	0	0	0	136

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	18	35	69	173	383	662	947	907	627	333	85	16	18	53	122	295	678	1340	2287	3194	3821	4154	4239	4255
45	0	5	25	92	250	513	792	752	479	212	33	0	0	5	30	122	372	885	1677	2429	2908	3120	3153	3153
50	0	0	1	41	144	369	637	597	338	114	8	0	0	0	1	42	186	555	1192	1789	2127	2241	2249	2249
55	0	0	0	15	68	240	483	443	212	45	0	0	0	0	0	15	83	323	806	1249	1461	1506	1506	1506
60	0	0	0	0	28	132	331	294	106	11	0	0	0	0	0	0	28	160	491	785	891	902	902	902
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	17	33	58	134	260	429	605	586	412	235	68	16	17	50	108	242	502	931	1536	2122	2534	2769	2837	2853

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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.

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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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