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: NEOLA, UT **COOP ID: 426123**

Climate Division: UT 6 **NWS Call Sign:** **Elevation: 5,950 Feet** **Lat: 40˚25N** **Lon: 110˚03W**

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	30.9	8.6	19.8	55	1959	18	29.4	2000	-27	1974	3	5.8	1973	1403	0	.0	.0	.3	16.8	30.9	7.0
Feb	37.2	13.5	25.4	63	1981	25	35.6	1995	-26	1989	7	12.0	1973	1110	0	.0	.0	2.6	7.7	28.0	3.8
Mar	49.1	24.3	36.7	72	1986	29	43.0	1986	-17	1962	1	29.7	1973	879	0	.0	.0	15.3	1.0	27.7	.1
Apr	59.0	31.3	45.2	83	1992	27	51.5	1992	2	1975	2	39.2	1975	596	0	.0	.0	25.2	@	17.5	.0
May	68.0	40.0	54.0	87+	1968	30	58.5	1992	18	1972	1	49.5	1995	345	3	.0	.0	30.5	.0	4.4	.0
Jun	78.1	48.0	63.1	96	1990	27	67.7	1977	29	1963	5	58.1	1975	120	61	.0	1.0	30.0	.0	.4	.0
Jul	84.3	54.3	69.3	97	2001	5	73.4+	2000	34	1982	6	64.5	1993	20	153	.0	4.2	31.0	.0	.0	.0
Aug	82.5	53.0	67.8	95+	1979	5	72.0	2000	32	1968	23	64.6	1975	29	114	.0	1.9	31.0	.0	.0	.0
Sep	73.7	44.3	59.0	92	1990	13	64.4	1990	13	1965	18	54.4	1971	202	21	.0	.1	29.9	.0	2.0	.0
Oct	60.6	33.4	47.0	81	1963	1	54.1	1988	0	1971	30	41.6	1984	558	0	.0	.0	27.4	.3	13.2	@
Nov	43.5	21.0	32.3	66+	1978	3	38.4	1999	-6	1976	28	24.9	1971	983	0	.0	.0	8.7	3.5	28.4	.3
Dec	32.8	11.1	22.0	59	1995	2	32.0	1980	-26	1990	22	8.9	1978	1335	0	.0	.0	.7	13.8	31.0	4.2
Ann	58.3	31.9	45.1	97	Jul 2001	5	73.4+	Jul 2000	-27	Jan 1974	3	5.8	Jan 1973	7580	352	.0	7.2	232.6	43.1	183.5	15.4

\+ 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: 1956-2001

(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	.57	.54	1.08	1962	20	2.16	1980	.00	1972
Feb	.54	.50	.65	1980	18	1.23	1980	.00+	1988
Mar	.64	.61	.96	1979	29	1.77	1975	.00+	1999
Apr	.81	.68	1.08	1973	18	2.64	1999	.00+	1992
May	1.17	.97	1.42	1996	23	3.92	1995	.00	1974
Jun	.67	.37	1.12	1975	18	2.88	1998	.00+	1981
Jul	.75	.58	1.10	1985	22	2.51	1987	.05	2000
Aug	.84	.82	1.15	1995	11	2.68	1997	.02	1996
Sep	1.10	1.06	1.12	1999	2	2.63	1997	.00	1987
Oct	1.19	1.11	1.73	1994	3	3.82	1994	.00+	1999
Nov	.60	.56	1.39	1957	3	2.22	1978	.00+	1995
Dec	.42	.33	.61	1964	24	1.61	1971	.00	1989
Ann	9.30	9.56	1.73	Oct 1994	3	3.92	May 1995	.00+	Oct 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.4	2.1	.1	.0
Feb	4.1	2.4	.2	.0
Mar	4.2	2.4	.2	.0
Apr	4.4	2.6	.3	@
May	6.2	3.6	.5	.1
Jun	3.4	1.9	.3	@
Jul	4.8	2.5	.2	@
Aug	5.1	2.6	.3	@
Sep	5.0	3.3	.5	.1
Oct	4.8	3.3	.8	.1
Nov	3.5	2.0	.2	.0
Dec	3.5	1.8	.0	.0
Ann	53.4	30.5	3.6	.3

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	.02	.06	.14	.22	.31	.41	.54	.70	.91	1.28	1.64
Feb	.00	.06	.16	.24	.33	.43	.54	.67	.85	1.15	1.44
Mar	.00	.00	.09	.21	.33	.46	.62	.81	1.08	1.51	1.95
Apr	.00	.00	.18	.32	.46	.62	.80	1.02	1.32	1.82	2.30
May	.19	.35	.55	.71	.87	1.04	1.22	1.44	1.73	2.18	2.60
Jun	.00	.00	.12	.23	.35	.48	.64	.84	1.10	1.56	2.01
Jul	.08	.14	.24	.35	.46	.58	.73	.91	1.16	1.57	1.97
Aug	.11	.18	.30	.42	.54	.67	.83	1.02	1.28	1.71	2.12
Sep	.04	.12	.27	.43	.61	.81	1.05	1.35	1.77	2.46	3.15
Oct	.00	.15	.37	.56	.75	.96	1.20	1.48	1.87	2.50	3.10
Nov	.00	.00	.11	.21	.32	.44	.58	.75	.99	1.39	1.79
Dec	.01	.04	.10	.16	.23	.31	.40	.51	.68	.94	1.21
Ann	5.75	6.40	7.26	7.92	8.51	9.10	9.71	10.39	11.23	12.46	13.54

\+ 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: 1956-2001
(3) Derived from 1971-2000 serially complete daily data

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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	7.0	5.0	4	4
Feb	4.5	1.5	5	3
Mar	1.9	.3	1	#
Apr	1.0	.0	#	0
May	.1	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	1.1	.0	#	0
Nov	2.4	.0	1	#
Dec	5.5	4.5	2	1
Ann	23.5	11.3	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	7.0	1973	19	28.0	1980	27	1979	31	21	1979
Feb	9.0	1989	3	17.0	1989	27	1979	7	19	1979
Mar	4.0	2000	20	7.0+	1988	19	1993	5	9	1993
Apr	9.0	1976	26	9.0	1976	6	1976	26	#+	1999
May	2.5	1988	1	2.5	1988	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	8.0	1971	28	15.0	1971	12	1971	29	1	1991
Nov	6.0	1983	21	12.0	1983	16	1973	3	7	1978
Dec	6.0	1972	9	22.0	1972	20	1978	23	12	1978
Ann	9.0+	Feb 1989	3	28.0	Jan 1980	27+	Feb 1979	7	21	Jan 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.7	2.3	.6	.1	.0
Feb	1.8	1.5	.5	.1	.0
Mar	1.0	.8	.2	.0	.0
Apr	.5	.4	.1	@	.0
May	@	@	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.3	.3	.2	@	.0
Nov	.6	.6	.2	.1	.0
Dec	1.7	1.6	.6	.2	.0
Ann	8.6	7.5	2.4	.5	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	1.6	1.3	1.1	.9
Apr	.1	.1	.1	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.1	.1	.1	.1
Nov	1.2	.3	.0	.0
Dec	5.0	3.2	1.5	.0
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	6/22	6/16	6/12	6/08	6/05	6/01	5/29	5/24	5/18
32	6/11	6/05	5/31	5/27	5/23	5/20	5/16	5/11	5/04
28	5/24	5/19	5/14	5/11	5/07	5/04	4/30	4/26	4/20
24	5/06	5/01	4/27	4/24	4/21	4/18	4/15	4/11	4/06
20	4/27	4/21	4/17	4/13	4/10	4/06	4/03	3/29	3/23
16	4/15	4/08	4/02	3/29	3/25	3/21	3/16	3/11	3/04

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	9/03	9/08	9/12	9/15	9/18	9/21	9/24	9/28	10/03
32	9/12	9/17	9/21	9/24	9/27	9/30	10/03	10/06	10/11
28	9/21	9/28	10/02	10/06	10/09	10/13	10/17	10/21	10/27
24	10/02	10/08	10/13	10/17	10/20	10/24	10/28	11/02	11/08
20	10/18	10/22	10/25	10/28	10/30	11/02	11/05	11/08	11/12
16	10/27	10/31	11/04	11/06	11/09	11/11	11/14	11/17	11/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	125	118	113	109	104	100	96	91	84
32	152	143	137	131	126	121	115	109	99
28	181	172	165	160	154	149	143	136	127
24	206	198	192	187	182	177	172	166	157
20	226	218	212	208	203	198	193	188	179
16	251	243	237	233	228	224	219	213	205

***** 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	1403	1110	879	596	345	120	20	29	202	558	983	1335	7580
60	1248	970	724	451	207	49	3	4	100	405	833	1180	6174
57	1155	886	631	369	139	23	0	1	58	318	743	1087	5410
55	1093	830	570	316	102	13	0	0	38	263	683	1025	4933
50	941	699	424	202	39	2	0	0	9	146	533	870	3865
32	445	280	65	10	0	0	0	0	0	2	113	357	1272

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	66	94	209	405	681	931	1156	1108	809	467	120	45	6091
55	0	0	1	20	70	254	443	395	156	15	0	0	1354
57	0	0	0	13	45	204	381	334	116	8	0	0	1101
60	0	0	0	6	20	140	291	244	69	2	0	0	772
65	0	0	0	0	3	61	153	114	21	0	0	0	352
70	0	0	0	0	0	18	58	33	3	0	0	0	112

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	2	53	199	445	700	921	872	576	251	20	0	0	2	55	254	699	1399	2320	3192	3768	4019	4039	4039
45	0	0	13	100	299	550	766	717	431	136	2	0	0	0	13	113	412	962	1728	2445	2876	3012	3014	3014
50	0	0	0	40	172	402	611	562	287	52	0	0	0	0	0	40	212	614	1225	1787	2074	2126	2126	2126
55	0	0	0	10	74	262	456	407	163	13	0	0	0	0	0	10	84	346	802	1209	1372	1385	1385	1385
60	0	0	0	0	18	140	304	255	72	0	0	0	0	0	0	0	18	158	462	717	789	789	789	789
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	6	56	158	296	455	599	563	376	189	26	0	0	6	62	220	516	971	1570	2133	2509	2698	2724	2724

(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