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: JENSEN, UT **COOP ID: 424342**

Climate Division: UT 6 **NWS Call Sign:** **Elevation: 4,750 Feet** **Lat: 40˚22N** **Lon: 109˚21W**

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	30.2	4.3	17.3	57+	1975	25	29.4	2000	-36+	1949	19	1.1	1973	1481	0	.0	.0	1.1	17.5	30.9	12.1
Feb	38.0	10.4	24.2	67+	1958	21	36.1	1995	-40	1989	7	8.0	1985	1142	0	.0	.0	4.6	9.2	27.9	6.8
Mar	53.5	23.2	38.4	77+	1956	25	45.4	1986	-17	1962	1	31.0	1979	826	0	.0	.0	20.5	.8	28.1	.4
Apr	64.4	31.1	47.8	87+	1949	24	53.4	1992	8	1970	1	41.4	1983	517	0	.0	.0	27.9	.0	17.3	.0
May	74.3	40.0	57.2	97	1954	20	61.0	2000	18	1972	1	52.3	1975	252	9	.0	.3	31.0	.0	3.9	.0
Jun	84.8	46.9	65.9	106+	1954	23	70.0	1988	25	1954	7	60.3	1975	68	92	.2	9.4	30.0	.0	.2	.0
Jul	90.9	52.9	71.9	105+	1953	8	75.8	1998	38+	1982	6	66.7	1993	6	221	1.1	20.5	31.0	.0	.0	.0
Aug	88.9	50.8	69.9	102+	1949	1	74.1	2000	27	1975	25	66.7	1975	18	169	.3	14.9	31.0	.0	@	.0
Sep	79.4	41.9	60.7	100+	1948	2	66.3	1998	17	1965	18	55.8	1971	164	33	.0	2.5	30.0	.0	3.4	.0
Oct	66.0	30.9	48.5	87+	1948	3	53.3	1988	0	1971	30	44.4	1971	514	0	.0	.0	29.3	.2	19.2	@
Nov	47.4	19.6	33.5	74	1999	6	37.9	1998	-12	1975	30	26.0	1971	945	0	.0	.0	13.3	2.3	28.7	.3
Dec	33.8	8.5	21.2	60+	1958	5	31.5	1980	-36	1990	23	5.3	1978	1359	0	.0	.0	1.5	12.4	31.0	6.7
Ann	62.6	30.0	46.4	106+	Jun 1954	23	75.8	Jul 1998	-40	Feb 1989	7	1.1	Jan 1973	7292	524	1.6	47.6	251.2	42.4	190.6	26.3

\+ 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: 1948-2001

(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	.54	.40	.71	1956	16	1.51	1978	.00+	1994
Feb	.53	.55	1.60	1969	26	1.24	1998	.01	1988
Mar	.68	.53	1.38	1979	29	2.44	1979	.00	1972
Apr	.82	.74	.77	1981	3	2.39	1999	.00	1992
May	.92	.83	1.12	1981	3	2.71	1995	.00	1974
Jun	.53	.42	1.40	1970	10	2.21	1998	.00	1980
Jul	.68	.37	1.01	1955	25	2.38	1985	.00	1971
Aug	.62	.47	.96	1963	4	1.95	1997	.00	1971
Sep	.93	.70	1.43	1965	17	3.05+	1997	.00	1979
Oct	1.14	.97	1.60	1979	20	3.78	1981	.07+	1995
Nov	.59	.50	.78	1957	3	1.46	1983	.00+	1976
Dec	.46	.33	1.55	1949	19	1.68	1984	.00+	1993
Ann	8.44+	8.66+	1.60+	Oct 1979	20	3.78	Oct 1981	.00+	Jan 1994

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	4.9	2.2	.1	.0
Feb	4.8	2.0	@	.0
Mar	5.4	2.2	.1	.1
Apr	5.9	2.7	.3	.0
May	6.8	2.9	.3	@
Jun	4.3	1.6	.2	.0
Jul	5.0	2.0	.3	@
Aug	4.7	1.9	.3	.0
Sep	5.7	2.9	.3	.0
Oct	6.0	3.2	.6	.1
Nov	4.0	2.1	.1	.0
Dec	3.9	1.5	.2	.0
Ann	61.4	27.2	2.8	.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	.00	.00	.17	.26	.35	.45	.56	.68	.85	1.12	1.38
Feb	.07	.11	.18	.26	.34	.42	.53	.65	.82	1.10	1.38
Mar	.02	.07	.17	.27	.38	.50	.64	.83	1.08	1.51	1.93
Apr	.08	.18	.32	.44	.56	.69	.83	1.01	1.24	1.62	1.98
May	.10	.21	.36	.49	.63	.77	.93	1.13	1.39	1.81	2.21
Jun	.01	.03	.09	.16	.24	.34	.47	.64	.87	1.29	1.70
Jul	.00	.02	.09	.17	.27	.40	.57	.80	1.13	1.71	2.30
Aug	.04	.10	.20	.29	.39	.49	.62	.77	.98	1.32	1.65
Sep	.07	.17	.32	.46	.60	.75	.93	1.14	1.43	1.90	2.35
Oct	.11	.19	.34	.50	.67	.87	1.10	1.38	1.78	2.44	3.08
Nov	.00	.09	.20	.30	.39	.49	.60	.74	.91	1.20	1.48
Dec	.00	.03	.10	.17	.25	.34	.44	.57	.75	1.06	1.36
Ann	4.96	5.58	6.41	7.05	7.64	8.21	8.81	9.49	10.32	11.56	12.65

+ 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
(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	6.2	4.1	5	5
Feb	4.2	3.5	5	3
Mar	1.9	.1	2	0
Apr	.8	.0	#	0
May	.3	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	1.0	.0	#	0
Nov	3.0	1.5	#	0
Dec	5.9	5.0	2	#
Ann	23.3	14.2	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	6.5	1996	25	16.0	1978	18	1979	31	15	1979
Feb	6.5	1990	13	13.3	1990	18	1985	9	18	1979
Mar	6.0	1979	29	9.5	1978	16	1973	1	16	1973
Apr	6.0	1983	13	9.0	1975	3	1983	13	#	1983
May	6.0	1975	5	6.0	1975	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	10.0	1971	29	14.0	1971	8	1971	31	#+	1996
Nov	8.0	1973	3	14.5	1978	6	1994	3	1	1994
Dec	12.5	1984	20	24.2	1984	15	1984	27	11	1978
Ann	12.5	Dec 1984	20	24.2	Dec 1984	18+	Feb 1985	9	18	Feb 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.8	2.7	.6	.2	.0
Feb	2.7	1.8	.6	.1	.0
Mar	.9	.8	.2	.1	.0
Apr	.4	.4	.1	.1	.0
May	.1	.1	@	@	.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	.1	@
Nov	1.3	1.0	.4	.2	.0
Dec	3.1	2.1	.6	.3	@
Ann	12.6	9.2	2.7	1.1	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	19.1	17.3	13.7	4.4
Feb	14.9	13.4	11.2	4.0
Mar	3.3	2.8	2.3	1.2
Apr	.1	.1	.0	.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	.0	.0	.0
Nov	1.6	.5	.1	.0
Dec	11.7	8.2	4.2	.7
Ann	50.8	42.3	31.5	10.3

+ 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	6/18	6/12	6/08	6/05	6/02	5/30	5/26	5/22	5/17
32	6/08	6/02	5/28	5/24	5/20	5/16	5/12	5/07	4/30
28	5/20	5/15	5/12	5/09	5/06	5/03	4/30	4/27	4/22
24	5/03	4/29	4/26	4/23	4/20	4/18	4/15	4/12	4/07
20	4/24	4/18	4/15	4/11	4/08	4/05	4/02	3/29	3/24
16	4/15	4/08	4/03	3/29	3/25	3/21	3/17	3/12	3/05

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	9/01	9/06	9/10	9/13	9/16	9/19	9/22	9/26	10/01
32	9/08	9/12	9/15	9/18	9/21	9/23	9/26	9/29	10/04
28	9/16	9/21	9/25	9/29	10/02	10/05	10/08	10/12	10/18
24	9/26	10/02	10/06	10/10	10/13	10/16	10/20	10/24	10/30
20	10/10	10/16	10/20	10/23	10/26	10/29	11/02	11/06	11/11
16	10/21	10/26	10/30	11/02	11/04	11/07	11/10	11/14	11/18

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	129	121	115	110	105	100	95	90	82
32	150	141	134	129	123	118	112	105	96
28	173	164	158	153	148	143	138	132	123
24	201	192	186	180	175	170	164	158	149
20	223	215	210	205	200	196	191	186	178
16	250	241	235	229	224	218	212	206	197

***** 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	1481	1142	826	517	252	68	6	18	164	514	945	1359	7292
60	1326	1002	671	374	132	19	0	2	74	362	795	1204	5961
57	1238	929	579	293	79	7	0	0	40	276	705	1111	5257
55	1180	876	520	243	53	3	0	0	24	223	645	1049	4816
50	1036	746	378	139	14	0	0	0	5	112	495	896	3821
32	559	352	61	2	0	0	0	0	0	0	85	401	1460

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	101	134	258	475	780	1015	1238	1173	859	510	130	64	6737
55	9	14	4	26	120	328	525	460	193	19	0	0	1698
57	5	11	1	16	84	272	463	399	149	10	0	0	1410
60	0	0	0	7	44	194	370	308	93	3	0	0	1019
65	0	0	0	0	9	92	221	169	33	0	0	0	524
70	0	0	0	0	1	31	98	67	7	0	0	0	204

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	4	72	256	538	781	998	933	628	286	22	0	0	4	76	332	870	1651	2649	3582	4210	4496	4518	4518
45	0	0	16	138	383	631	843	778	479	159	2	0	0	0	16	154	537	1168	2011	2789	3268	3427	3429	3429
50	0	0	0	56	241	482	688	623	335	65	0	0	0	0	0	56	297	779	1467	2090	2425	2490	2490	2490
55	0	0	0	15	120	335	533	468	198	16	0	0	0	0	0	15	135	470	1003	1471	1669	1685	1685	1685
60	0	0	0	0	41	199	378	315	89	0	0	0	0	0	0	0	41	240	618	933	1022	1022	1022	1022
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	14	104	231	385	505	611	589	447	266	46	0	0	14	118	349	734	1239	1850	2439	2886	3152	3198	3198

(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