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: PINE VIEW DAM, UT **COOP ID: 426869**

Climate Division: UT 5 **NWS Call Sign:** **Elevation: 4,940 Feet** **Lat: 41˚15N** **Lon: 111˚50W**

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	30.0	8.0	19.0	60	1969	7	27.7	2000	-35	1949	25	9.4	1973	1426	0	.0	.0	.4	16.1	30.6	9.1
Feb	35.0	9.8	22.4	63	1963	5	31.6	1986	-39	1982	6	12.9	1974	1192	0	.0	.0	1.5	9.3	27.7	6.5
Mar	45.7	21.4	33.6	72	1956	24	42.4	1986	-21	1966	4	25.1	1976	976	0	.0	.0	10.0	1.6	28.8	1.0
Apr	56.0	29.2	42.6	82	2000	28	48.7	1992	9	1975	2	34.8	1975	671	0	.0	.0	21.5	@	20.0	.0
May	65.9	37.0	51.5	91	1954	20	56.9	1992	18	1961	5	45.2	1975	421	2	.0	.0	28.8	.0	6.2	.0
Jun	76.7	43.4	60.1	96+	1954	23	65.1	1988	27	1995	6	55.2	1975	179	29	.0	1.9	29.9	.0	.6	.0
Jul	85.0	49.6	67.3	100	1960	19	71.0	1989	36	1955	8	60.4	1993	38	109	.0	8.7	31.0	.0	.0	.0
Aug	83.7	48.1	65.9	98+	1953	26	68.8	1994	30+	1992	25	62.1	1975	58	86	.0	5.9	31.0	.0	.1	.0
Sep	73.3	39.5	56.4	95+	1950	2	61.9	1998	22	1985	29	52.0	1986	269	12	.0	.4	29.5	.0	3.6	.0
Oct	60.4	30.3	45.4	84+	1953	1	50.7	1988	11+	1960	30	39.8	1984	609	0	.0	.0	26.4	.1	19.3	.0
Nov	43.0	21.2	32.1	74	1953	3	39.5	1999	-17	1955	16	24.5	2000	987	0	.0	.0	8.9	4.1	27.9	.4
Dec	31.6	11.9	21.8	61+	1995	2	30.7	1995	-36	1990	22	10.0	1990	1342	0	.0	.0	1.1	14.8	30.5	4.7
Ann	57.2	29.1	43.2	100	Jul 1960	19	71.0	Jul 1989	-39	Feb 1982	6	9.4	Jan 1973	8168	238	.0	16.9	220.0	46.0	195.3	21.7

\+ 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/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

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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	3.89	3.63	3.15	1955	20	8.50	1997	.64	1985
Feb	3.25	3.09	1.65	1957	25	9.02	1986	.70	1988
Mar	3.45	3.08	2.03	1995	12	7.98	1982	1.13	1992
Apr	2.94	3.14	1.85	1986	25	8.27	1986	.17	1987
May	3.40	3.04	3.98	1975	7	7.54	1981	.09	1972
Jun	1.74	1.42	2.05	1993	8	6.24	1993	.02	1996
Jul	1.15	.91	2.24	1984	21	4.36	1984	.00	1971
Aug	1.13	.77	3.17	2000	31	4.55	1983	.00	1975
Sep	2.03	1.14	2.62	1986	24	7.93	1982	.00	1974
Oct	2.91	2.65	2.59	1991	22	6.96	1981	.00	1978
Nov	3.15	2.73	2.93	1984	9	7.66	1988	.04	1976
Dec	3.34	2.50	2.64	1964	23	12.91	1983	.06	1976
Ann	32.38	31.78	3.98	May 1975	7	12.91	Dec 1983	.00+	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.1	8.2	2.6	.7
Feb	10.4	7.4	2.1	.6
Mar	11.3	7.6	2.1	.7
Apr	10.3	6.9	1.8	.4
May	10.5	7.0	2.1	.7
Jun	5.2	3.2	1.2	.4
Jul	4.3	2.5	.7	.2
Aug	4.8	2.1	.7	.2
Sep	6.3	3.9	1.3	.5
Oct	7.2	4.8	1.9	.9
Nov	10.5	7.1	2.0	.5
Dec	11.2	7.3	2.3	.6
Ann	104.1	68.0	20.8	6.4

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	1.09	1.46	2.02	2.50	2.98	3.48	4.03	4.68	5.52	6.85	8.08
Feb	.98	1.29	1.75	2.15	2.53	2.93	3.37	3.89	4.56	5.61	6.58
Mar	1.14	1.46	1.94	2.35	2.74	3.15	3.59	4.11	4.78	5.81	6.77
Apr	.56	.82	1.26	1.65	2.06	2.49	2.99	3.58	4.38	5.65	6.86
May	.58	.88	1.37	1.84	2.32	2.84	3.43	4.15	5.11	6.67	8.15
Jun	.07	.15	.33	.56	.82	1.15	1.55	2.07	2.82	4.12	5.42
Jul	.02	.09	.23	.39	.57	.79	1.05	1.39	1.86	2.67	3.48
Aug	.01	.06	.17	.32	.50	.71	.99	1.35	1.86	2.76	3.67
Sep	.06	.20	.47	.76	1.08	1.46	1.91	2.47	3.27	4.60	5.92
Oct	.21	.51	.98	1.40	1.85	2.34	2.91	3.60	4.53	6.05	7.52
Nov	.56	.84	1.30	1.73	2.17	2.64	3.18	3.84	4.71	6.12	7.47
Dec	.19	.38	.79	1.24	1.75	2.36	3.09	4.03	5.36	7.61	9.85
Ann	20.99	23.12	25.88	28.01	29.92	31.78	33.72	35.88	38.51	42.38	45.76

+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	29.5	29.0	17	16	14.0	1982	21	70.6	1993	45	1984	15	41	1984	10.0	8.8	4.4	2.3	.5	29.0	27.6	26.7	19.9
Feb	24.8	26.5	19	19	15.0	1982	3	50.0	1979	47	1984	17	41	1984	7.2	6.6	3.6	1.6	.3	27.0	25.8	24.4	20.6
Mar	15.5	12.5	10	8	13.0	1973	22	41.0	1982	40	1984	7	32	1984	5.8	4.9	1.8	.8	.1	20.3	17.5	16.0	13.5
Apr	6.3	6.3	1	#	9.0	1974	10	27.5	1975	24	1973	2	10	1975	3.2	2.6	.8	.1	.0	5.2	2.9	2.0	1.2
May	1.2	.0	#	0	6.0	1975	7	17.0	1975	6	1975	8	1	1975	.6	.5	.1	.1	.0	.6	.1	.1	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.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	.1	.0	#	0	1.0	1978	19	1.0	1978	1	1982	29	#+	2000	.1	@	.0	.0	.0	.1	.0	.0	.0
Oct	2.3	.0	#	0	7.0	1984	17	26.0	1984	9	1984	19	2	1984	.8	.6	.3	.1	.0	1.3	.8	.3	.0
Nov	15.3	12.8	2	1	14.0	1983	23	43.5	1983	20	1985	18	8	1985	5.5	4.6	1.8	.9	.2	11.5	6.9	5.1	1.9
Dec	27.3	19.0	9	8	18.0	1997	8	116.0	1983	48	1983	27	34	1983	9.0	8.1	3.5	1.9	.6	24.7	22.0	17.4	10.4
Ann	122.3	106.1	N/A	N/A	18.0	Dec 1997	8	116.0	Dec 1983	48	Dec 1983	27	41+	Feb 1984	42.2	36.7	16.3	7.8	1.7	119.7	103.6	92.0	67.5

+ 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	6/27	6/21	6/17	6/14	6/11	6/07	6/04	5/31	5/26
32	6/13	6/07	6/02	5/30	5/26	5/23	5/19	5/14	5/08
28	5/24	5/18	5/14	5/10	5/07	5/03	4/30	4/25	4/20
24	5/14	5/05	4/29	4/23	4/18	4/13	4/08	4/01	3/23
20	4/21	4/14	4/09	4/05	3/31	3/27	3/23	3/18	3/11
16	4/05	3/30	3/26	3/22	3/19	3/15	3/11	3/07	3/01

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	9/01	9/05	9/08	9/11	9/14	9/17	9/21	9/26
32	9/10	9/14	9/17	9/20	9/22	9/25	9/27	9/30	10/04
28	9/20	9/25	9/28	10/01	10/04	10/07	10/10	10/13	10/18
24	10/08	10/12	10/15	10/18	10/20	10/23	10/25	10/28	11/01
20	10/21	10/25	10/27	10/29	11/01	11/03	11/05	11/08	11/11
16	10/30	11/03	11/06	11/09	11/11	11/14	11/17	11/20	11/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	116	107	101	96	92	87	82	76	68
32	138	131	127	122	119	115	110	106	99
28	176	167	160	155	150	145	139	133	124
24	211	202	195	190	184	179	173	167	158
20	237	229	223	218	213	209	204	198	190
16	259	252	246	241	237	233	228	222	215

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1426	1192	976	671	421	179	38	58	269	609	987	1342	8168
60	1271	1052	821	521	279	87	7	14	152	454	837	1187	6682
57	1178	968	728	435	203	49	1	4	97	363	747	1094	5867
55	1116	912	666	380	160	31	0	2	68	304	687	1032	5358
50	961	772	519	251	76	7	0	0	21	173	537	877	4194
32	440	313	119	16	0	0	0	0	0	2	119	360	1369

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	37	45	166	335	604	840	1094	1051	732	416	122	41	5483
55	0	0	0	9	50	181	382	340	110	5	0	0	1077
57	0	0	0	5	32	139	321	280	79	2	0	0	858
60	0	0	0	0	14	87	233	197	44	0	0	0	575
65	0	0	0	0	2	29	109	86	12	0	0	0	238
70	0	0	0	0	0	6	33	22	2	0	0	0	63

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	0	30	152	375	617	869	836	519	218	28	0	0	0	30	182	557	1174	2043	2879	3398	3616	3644	3644
45	0	0	5	76	241	467	714	681	376	108	5	0	0	0	5	81	322	789	1503	2184	2560	2668	2673	2673
50	0	0	0	26	131	325	559	526	242	39	0	0	0	0	0	26	157	482	1041	1567	1809	1848	1848	1848
55	0	0	0	6	57	196	406	371	126	7	0	0	0	0	0	6	63	259	665	1036	1162	1169	1169	1169
60	0	0	0	0	13	95	255	225	47	0	0	0	0	0	0	0	13	108	363	588	635	635	635	635
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	37	127	263	410	558	540	367	196	29	0	0	1	38	165	428	838	1396	1936	2303	2499	2528	2528

(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