

Climatography of the United States

No. 20

1971-2000

Station: ORDERVILLE, UT

COOP ID: 426534

Climate Division: UT 4

NWS Call Sign:

Elevation: 5,460 Feet Lat: 37° 16N

Lon: 112° 38W

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	49.7	17.7	33.7	71+	1990	9	40.8	1986	-25	1979	27	26.4	1973	972	0	.0	.0	13.5	1.3	29.8	1.2
Feb	54.1	22.3	38.2	76+	1972	28	45.3	1995	-12	1979	3	31.9	1979	750	0	.0	.0	16.9	.9	25.6	.4
Mar	60.0	26.0	43.0	83	1956	24	48.8	1972	-5+	1952	3	36.9	1973	683	0	.0	.0	25.2	.1	24.7	.0
Apr	68.3	31.0	49.7	87+	1992	26	56.1	2000	-4	1963	2	42.1	1975	464	2	.0	.0	28.1	.0	15.6	.0
May	77.2	38.5	57.9	97	2001	11	63.7	1997	15	1975	6	52.3	1977	247	25	.0	1.4	30.9	.0	4.0	.0
Jun	88.3	46.5	67.4	106	1970	25	72.0	1994	25+	1951	2	62.6	1998	51	123	.7	11.6	30.0	.0	@	.0
Jul	93.4	53.4	73.4	106+	1989	7	77.5	1996	36+	1963	1	70.1	1987	2	263	2.6	20.9	31.0	.0	.0	.0
Aug	91.1	53.2	72.2	103+	1990	8	75.8	1994	33+	1964	21	67.9	1979	6	228	1.1	15.9	31.0	.0	.0	.0
Sep	83.6	46.2	64.9	104	1955	1	67.7	1995	24	1964	30	59.0	1986	71	67	@	3.8	30.0	.0	.3	.0
Oct	72.0	34.8	53.4	92+	1987	4	59.0	1988	10+	1960	31	48.3	1981	364	4	.0	.2	30.1	@	10.1	.0
Nov	58.5	24.1	41.3	80	1975	5	47.7	1999	-6	1958	17	35.8	2000	711	0	.0	.0	23.2	.1	24.8	.1
Dec	50.9	18.4	34.7	72	1980	15	41.9	1980	-20+	1967	21	27.8	1978	940	0	.0	.0	16.8	1.3	29.4	.8
Ann	70.6	34.3	52.5	106+	Jul 1989	7	77.5	Jul 1996	-25	Jan 1979	27	26.4	Jan 1973	5261	712	4.4	53.8	306.7	3.7	164.3	2.5

+ 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: 1928-2001

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

080-A

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: ORDERVILLE, UT

COOP ID: 426534

Climate Division: UT 4

NWS Call Sign:

Elevation: 5,460 Feet Lat: 37°16N

Lon: 112°38W

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	Med-ian	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	1.82	1.34	2.00	1943	23	7.84	1993	.00+	1976	6.0	4.5	1.2	.2	.00	.10	.36	.64	.94	1.29	1.71	2.24	2.97	4.22	5.45
Feb	1.91	1.55	2.00	1948	5	7.38	1980	.00	1972	6.2	4.5	1.2	.4	.08	.25	.53	.81	1.11	1.45	1.85	2.35	3.04	4.18	5.29
Mar	2.05	1.56	2.00	1981	3	5.90	1978	.00	1972	7.1	5.2	1.2	.2	.05	.19	.47	.76	1.09	1.47	1.92	2.50	3.31	4.68	6.04
Apr	.98	.65	1.55	1988	21	4.61	1988	.00+	1993	4.3	2.6	.5	.1	.00	.06	.20	.35	.51	.70	.92	1.20	1.60	2.26	2.91
May	.89	.69	1.56	1951	15	2.42	1977	.00	1972	4.7	2.6	.5	@	.04	.12	.26	.39	.53	.68	.86	1.09	1.40	1.91	2.41
Jun	.58	.50	2.26	1957	10	2.22	2000	.00+	1978	2.8	1.7	.2	@	.00	.04	.12	.21	.31	.42	.55	.72	.94	1.33	1.71
Jul	1.15	.86	2.20	1982	28	4.42	1985	.00+	1993	5.1	2.8	.6	.1	.00	.05	.20	.37	.56	.79	1.06	1.40	1.89	2.72	3.55
Aug	1.65	1.24	2.52	1963	6	4.21	1987	.00	1985	6.7	4.4	.9	.1	.23	.44	.72	.95	1.19	1.43	1.71	2.04	2.47	3.16	3.80
Sep	1.15	.98	2.38	1972	19	4.14	1997	.00+	1979	4.7	2.9	.6	.2	.00	.04	.18	.35	.53	.76	1.04	1.39	1.90	2.76	3.63
Oct	1.27	.96	2.10	1954	8	3.13	1972	.00+	1999	4.8	3.3	1.0	.1	.00	.17	.40	.61	.81	1.04	1.29	1.59	1.99	2.66	3.29
Nov	1.21	.79	1.63	1949	10	3.98	1982	.00	1980	4.1	2.9	.9	.2	.02	.09	.24	.41	.60	.83	1.11	1.47	1.97	2.84	3.70
Dec	1.08	.75	4.44	1966	6	3.41+	1996	.00+	1999	4.6	3.3	.5	.1	.00	.05	.19	.35	.53	.73	.99	1.31	1.77	2.54	3.32
Ann	15.74	14.78	4.44	Dec 1966	6	7.84	Jan 1993	.00+	Dec 1999	61.1	40.7	9.3	1.7	8.66	9.90	11.56	12.87	14.06	15.24	16.49	17.89	19.64	22.24	24.54

+ 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: 1928-2001

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

Complete documentation available from:

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Station: ORDERVILLE, UT

COOP ID: 426534

Climate Division: UT 4

NWS Call Sign:

Elevation: 5,460 Feet

Lat: 37° 16N

Lon: 112° 38W

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	11.9	6.4	3	2	20.0	1988	16	48.9	1979	19	1982	21	11	1974	3.2	2.8	1.7	.9	.1	5.8	4.7	2.5	.2
Feb	6.6	6.5	1	#	10.0	1979	1	24.0	1979	30	1979	5	17	1979	2.2	2.0	.9	.3	.1	2.5	1.0	.3	.0
Mar	3.8	2.0	1	0	10.0	1973	7	28.0	1973	11	1979	1	11	1979	1.4	1.3	.4	.2	@	.5	.2	.1	.0
Apr	1.0	.0	#	0	7.0	1978	9	7.0	1978	6	1975	1	6	1975	.4	.4	.2	.1	.0	.1	.1	.0	.0
May	.1	.0	0	0	2.0	1977	14	2.0	1977	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.1	.0	#	0	2.0	1971	16	2.0	1975	3	1991	29	#+	1991	.1	.1	.0	.0	.0	.0	.0	.0	.0
Nov	3.4	.3	#	0	11.0	1994	18	15.5	1994	12	1985	12	3	1985	1.1	.9	.5	.2	@	1.4	.8	.2	.0
Dec	3.3	.8	1	#	8.0	1978	18	16.5	1972	18	1988	25	4	1988	1.4	1.1	.5	.3	.0	2.0	1.0	.3	.0
Ann	30.2	16.0	N/A	N/A	20.0	Jan 1988	16	48.9	Jan 1979	30	Feb 1979	5	17	Feb 1979	9.8	8.6	4.2	2.0	.2	12.3	7.8	3.4	.2

+ 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	6/14	6/09	6/05	6/02	5/30	5/27	5/24	5/21	5/16
32	5/30	5/25	5/22	5/19	5/16	5/13	5/10	5/07	5/02
28	5/21	5/15	5/11	5/07	5/04	4/30	4/27	4/23	4/17
24	5/10	5/01	4/25	4/19	4/14	4/09	4/04	3/28	3/20
20	4/26	4/16	4/09	4/03	3/28	3/22	3/16	3/09	2/27
16	4/12	3/31	3/22	3/15	3/08	3/01	2/22	2/13	2/01
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	9/10	9/14	9/17	9/20	9/23	9/25	9/28	10/01	10/06
32	9/24	9/28	10/01	10/04	10/06	10/08	10/11	10/14	10/18
28	10/03	10/09	10/12	10/16	10/19	10/22	10/25	10/29	11/03
24	10/13	10/18	10/22	10/25	10/28	10/31	11/03	11/07	11/12
20	10/22	10/27	10/31	11/03	11/06	11/09	11/12	11/16	11/21
16	11/01	11/06	11/10	11/13	11/16	11/19	11/22	11/25	12/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	132	126	122	118	115	111	108	104	98
32	160	154	149	146	142	139	135	131	125
28	191	182	177	172	167	162	158	152	144
24	229	217	209	202	196	190	183	175	163
20	256	244	236	229	222	216	209	200	189
16	290	277	268	260	252	245	237	227	214

* 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	972	750	683	464	247	51	2	6	71	364	711	940	5261
60	817	610	530	326	139	14	0	0	19	228	561	785	4029
57	724	526	441	249	91	5	0	0	7	160	472	692	3367
55	662	470	385	205	65	3	0	0	3	122	413	630	2958
50	507	335	252	114	23	0	0	0	0	53	276	479	2039
32	87	24	14	1	0	0	0	0	0	0	14	78	218

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	139	198	353	529	801	1062	1284	1245	986	663	293	160	7713
55	0	0	11	43	153	374	571	532	299	72	2	0	2057
57	0	0	6	28	117	317	509	470	243	49	1	0	1740
60	0	0	2	14	72	236	416	377	165	23	0	0	1305
65	0	0	0	2	25	123	263	228	67	4	0	0	712
70	0	0	0	0	6	47	128	105	16	0	0	0	302

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	20	61	141	304	560	827	1037	989	743	424	117	25	20	81	222	526	1086	1913	2950	3939	4682	5106	5223	5248
45	0	14	58	179	407	677	882	834	593	280	44	1	0	14	72	251	658	1335	2217	3051	3644	3924	3968	3969
50	0	1	17	83	264	527	727	679	444	158	9	0	0	1	18	101	365	892	1619	2298	2742	2900	2909	2909
55	0	0	0	27	141	378	572	524	297	65	0	0	0	0	0	27	168	546	1118	1642	1939	2004	2004	2004
60	0	0	0	4	56	238	417	369	163	17	0	0	0	0	0	4	60	298	715	1084	1247	1264	1264	1264
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	50	81	150	257	397	529	641	622	490	330	134	62	50	131	281	538	935	1464	2105	2727	3217	3547	3681	3743

(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/normals/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 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/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