

Climatography of the United States No. 20

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

Station: DELTA, UT

1971-2000

COOP ID: 422090

Climate Division: UT 1

NWS Call Sign: U24

Elevation: 4,623 Feet Lat: 39° 20N Lon: 112° 36W

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	38.7	14.1	26.4	64	1953	9	35.0	2000	-25+	1949	19	14.0	1973	1196	0	.0	.0	4.1	8.7	30.0	4.8
Feb	46.2	19.6	32.9	74+	1972	28	40.1	1986	-27	1989	7	19.5	1984	898	0	.0	.0	10.4	3.0	26.1	1.8
Mar	56.3	27.0	41.7	84	1997	20	47.0	1986	-8	1966	4	34.2	1976	725	0	.0	.0	22.5	.3	24.3	.1
Apr	64.5	32.5	48.5	89	1987	28	56.0	1992	12	1997	5	41.9	1975	497	2	.0	.0	26.9	.0	15.0	.0
May	74.1	41.0	57.6	98+	2001	24	62.1	1992	21+	1967	2	52.1	1975	253	23	.0	1.1	30.7	.0	3.5	.0
Jun	85.8	49.2	67.5	106	1954	23	72.6	1994	25+	1976	14	61.9	1998	64	140	.9	11.1	30.0	.0	.2	.0
Jul	93.6	56.4	75.0	109+	1938	30	78.0	1994	37+	1992	2	70.7	1993	2	310	3.4	23.3	31.0	.0	.0	.0
Aug	91.8	54.9	73.4	110	1938	1	77.5	1994	35	1992	27	68.7	1976	7	265	1.6	19.5	31.0	.0	.0	.0
Sep	81.5	45.2	63.4	101	1938	27	69.9	1990	24+	1965	18	58.7	1971	116	67	.0	4.3	29.9	.0	1.7	.0
Oct	68.0	33.9	51.0	92+	1992	1	58.1	1988	-2	1971	30	46.1	1971	437	2	.0	.2	28.7	.1	13.0	@
Nov	51.6	23.1	37.4	77	1980	6	43.2	1995	-6	1938	13	29.5	2000	830	0	.0	.0	16.3	1.4	26.1	.2
Dec	40.0	14.3	27.2	70	1995	1	35.2	1977	-30	1990	23	16.3	1972	1173	0	.0	.0	5.1	7.3	29.9	2.5
Ann	66.0	34.3	50.2	110	Aug 1938	1	78.0	Jul 1994	-30	Dec 1990	23	14.0	Jan 1973	6198	809	5.9	59.5	266.6	20.8	169.8	9.4

+ 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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1938-2001

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

025-A

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Elevation: 4,623 Feet Lat: 39°20N

Lon: 112°36W

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	.60	.51	.67	1997	3	1.75	1993	.00	1972	5.8	2.3	@	.0	.08	.15	.25	.34	.43	.52	.62	.74	.90	1.16	1.40
Feb	.65	.52	.89	1949	12	1.82	1971	.00	1974	5.8	2.6	.1	.0	.02	.08	.17	.26	.37	.48	.62	.80	1.04	1.44	1.83
Mar	.85	.72	.96+	1945	15	2.79	1980	.00	1972	6.8	3.0	.2	.0	.08	.18	.32	.44	.57	.71	.86	1.05	1.30	1.71	2.11
Apr	.83	.82	1.22	1957	22	1.74	1971	.00	1992	6.3	2.7	.3	.0	.02	.07	.18	.30	.43	.58	.77	1.00	1.34	1.90	2.46
May	.99	.73	1.21	1947	11	2.95	1980	.00	1974	6.8	3.2	.3	.0	.08	.19	.36	.50	.65	.81	1.00	1.22	1.53	2.01	2.48
Jun	.48	.33	1.08	1939	17	1.87	1998	.00+	1996	3.6	1.4	.2	.0	.00	.00	.04	.10	.18	.28	.40	.57	.80	1.22	1.65
Jul	.56	.41	1.05	1982	8	2.04	1984	.02+	2000	4.2	1.8	.1	@	.03	.06	.12	.20	.28	.39	.51	.67	.90	1.30	1.69
Aug	.64	.57	1.25	1982	2	1.73	1982	.02	1996	4.9	2.1	.2	@	.04	.08	.16	.24	.34	.46	.60	.77	1.02	1.45	1.87
Sep	.78	.53	1.09	1970	5	4.18	1982	.00	1974	5.2	2.2	.3	.0	.03	.08	.19	.30	.43	.57	.74	.95	1.24	1.73	2.22
Oct	1.01	.97	2.59	1946	28	3.19	2000	.00+	1999	5.6	2.8	.4	.1	.00	.22	.43	.59	.74	.89	1.06	1.25	1.51	1.92	2.30
Nov	.61	.46	1.04	1978	25	2.00	1978	.00	1995	5.3	1.8	.2	@	.03	.08	.17	.25	.35	.46	.59	.75	.97	1.33	1.69
Dec	.43	.28	1.60	1951	31	1.49	1983	.01	1976	4.9	1.5	.1	.0	.03	.05	.11	.17	.23	.31	.40	.52	.68	.96	1.24
Ann	8.43	8.34	2.59	Oct 1946	28	4.18	Sep 1982	.00+	Oct 1999	65.2	27.4	2.4	.1	4.51	5.18	6.09	6.81	7.47	8.12	8.81	9.59	10.56	12.01	13.30

+ 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: 1938-2001

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Station: DELTA, UT

COOP ID: 422090

Climate Division: UT 1

NWS Call Sign: U24

Elevation: 4,623 Feet

Lat: 39°20N

Lon: 112°36W

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	6.9	5.9	2	1	8.0	1980	28	22.7	1993	11	1989	4	8	1989	3.9	2.2	.7	.2	.0	10.5	5.8	3.3	.5
Feb	4.9	4.3	1	#	7.0	1989	4	17.7	1990	10	1979	2	6	1989	2.8	1.6	.5	.1	.0	6.5	3.9	2.5	.1
Mar	4.6	4.1	#	#	7.0	1979	29	25.9	1980	3	1983	24	#+	2000	2.4	1.6	.6	.2	.0	1.2	.1	.0	.0
Apr	1.7	1.1	#	0	5.2	1983	12	6.6	1991	2	1976	15	#+	1999	1.4	.7	.1	@	.0	.2	.0	.0	.0
May	.7	.0	#	0	16.0	1975	20	18.0	1975	10	1975	20	1	1975	.2	.1	@	@	@	.1	.1	.1	@
Jun	#	.0	0	0	#	1990	1	#	1990	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	.2	.0	#	0	5.0	1978	18	7.0	1978	#	1978	17	#	1978	.1	.1	@	@	.0	.0	.0	.0	.0
Oct	1.3	.0	#	0	12.0	2000	31	12.5	2000	3	2000	31	#+	2000	.7	.5	.1	@	@	.1	@	.0	.0
Nov	3.7	1.5	#	#	12.0	1978	25	19.8	1994	9	1978	25	2	1978	2.0	1.1	.4	.2	@	2.2	.8	.2	.0
Dec	4.1	3.0	1	#	7.0	1998	19	16.2	1988	9	1984	21	3	1998	2.9	1.7	.3	.1	.0	7.2	2.7	1.4	.0
Ann	28.1	19.9	N/A	N/A	16.0	May 1975	20	25.9	Mar 1980	11	Jan 1989	4	8	Jan 1989	16.4	9.6	2.7	.8	@	28.0	13.4	7.5	.6

+ 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

Complete documentation available from:

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Elevation: 4,623 Feet

Lat: 39° 20N

Lon: 112° 36W

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	6/19	6/13	6/08	6/04	6/01	5/28	5/24	5/19	5/13
32	6/07	6/01	5/28	5/24	5/21	5/18	5/15	5/10	5/05
28	5/22	5/15	5/11	5/07	5/03	4/29	4/25	4/21	4/15
24	5/04	4/27	4/23	4/18	4/14	4/11	4/06	4/01	3/26
20	4/27	4/19	4/12	4/07	4/02	3/28	3/23	3/16	3/08
16	4/13	4/03	3/27	3/20	3/14	3/08	3/02	2/23	2/12
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	9/05	9/10	9/13	9/15	9/18	9/20	9/22	9/25	9/30
32	9/13	9/18	9/21	9/24	9/27	9/30	10/03	10/06	10/11
28	9/23	9/28	10/01	10/04	10/07	10/10	10/13	10/16	10/21
24	10/07	10/12	10/16	10/19	10/22	10/25	10/28	11/01	11/06
20	10/18	10/23	10/26	10/29	11/01	11/03	11/06	11/10	11/14
16	10/28	11/02	11/06	11/09	11/12	11/15	11/18	11/22	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	129	122	117	112	108	104	100	94	87
32	148	141	136	132	128	124	120	115	108
28	181	173	167	161	156	151	146	140	131
24	217	208	201	195	190	185	179	172	163
20	243	232	224	218	212	206	199	192	181
16	275	263	255	248	242	236	229	221	209

* 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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Climate Division: UT 1 NWS Call Sign: U24 Elevation: 4,623 Feet Lat: 39° 20N Lon: 112° 36W

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	1196	898	725	497	253	64	2	7	116	437	830	1173	6198
60	1041	758	571	356	142	22	0	1	48	292	680	1018	4929
57	951	674	481	278	92	10	0	0	24	217	590	925	4242
55	894	619	424	230	66	5	0	0	13	171	531	863	3816
50	749	491	287	134	23	0	0	0	2	83	388	708	2865
32	309	134	23	2	0	0	0	0	0	0	50	230	748

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	136	160	320	497	793	1066	1332	1281	941	589	210	81	7406
55	7	1	9	35	146	381	619	568	264	47	1	0	2078
57	3	0	4	23	110	326	557	506	214	30	0	0	1773
60	0	0	0	11	67	248	464	414	149	13	0	0	1366
65	0	0	0	2	23	140	310	265	67	2	0	0	809
70	0	0	0	0	5	63	168	137	21	0	0	0	394

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	5	36	128	277	548	822	1080	1029	699	351	70	10	5	41	169	446	994	1816	2896	3925	4624	4975	5045	5055
45	0	9	58	165	395	673	925	874	550	224	22	0	0	9	67	232	627	1300	2225	3099	3649	3873	3895	3895
50	0	0	16	76	259	524	770	719	401	118	4	0	0	0	16	92	351	875	1645	2364	2765	2883	2887	2887
55	0	0	0	27	145	378	615	564	268	46	0	0	0	0	0	27	172	550	1165	1729	1997	2043	2043	2043
60	0	0	0	6	62	244	460	409	152	12	0	0	0	0	0	6	68	312	772	1181	1333	1345	1345	1345
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	5	48	130	231	375	521	661	642	469	283	85	11	5	53	183	414	789	1310	1971	2613	3082	3365	3450	3461

(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