

Climatography of the United States

No. 20

1971-2000

Station: BLUFF, UT

COOP ID: 420788

Climate Division: UT 7

NWS Call Sign:

Elevation: 4,355 Feet Lat: 37° 17N

Lon: 109° 34W

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	42.5	17.1	29.8	69	1950	23	36.8	1980	-22	1963	13	18.5	1973	1091	0	.0	.0	7.6	4.6	29.3	1.7
Feb	51.3	23.0	37.2	76+	1986	25	44.2	1995	-13	1933	8	28.6	1974	780	0	.0	.0	17.2	.8	24.8	.2
Mar	61.6	30.0	45.8	85	1971	26	49.9	1989	9	1965	4	41.9	1977	596	0	.0	.0	29.2	.0	19.5	.0
Apr	70.3	36.3	53.3	94	1943	30	59.5	2000	18	1945	4	46.9	1983	356	6	.0	.1	29.6	.0	10.3	.0
May	79.4	44.8	62.1	101	2000	29	69.2	2000	23	1967	2	58.0	1975	143	54	.1	2.9	31.0	.0	1.3	.0
Jun	90.0	51.4	70.7	106+	1936	20	76.6	2000	33	1980	2	65.8	1975	23	194	2.7	18.7	30.0	.0	.0	.0
Jul	94.5	59.7	77.1	108+	1931	23	82.7	1998	40	1970	1	73.6	1979	0	375	7.3	27.5	31.0	.0	.0	.0
Aug	91.8	58.8	75.3	106	1938	1	81.5	2000	37	1980	21	70.9	1979	3	323	2.3	24.4	31.0	.0	.0	.0
Sep	83.9	48.7	66.3	100+	1945	5	72.0	1998	25+	1971	19	62.0	1973	65	104	.1	7.9	30.0	.0	.8	.0
Oct	70.5	35.5	53.0	91+	1980	1	57.3	1988	10	1980	24	49.3	1984	375	3	.0	.2	30.7	.0	12.2	.0
Nov	54.6	25.0	39.8	82	1942	3	42.7	1973	-2	1976	28	35.3	1979	755	0	.0	.0	22.3	.0	24.8	@
Dec	44.0	17.3	30.7	69	1948	4	36.4	1980	-22	1990	24	20.1	1990	1065	0	.0	.0	8.0	2.3	29.8	1.2
Ann	69.5	37.3	53.4	108+	Jul 1931	23	82.7	Jul 1998	-22+	Dec 1990	24	18.5	Jan 1973	5252	1059	12.5	81.7	297.6	7.7	152.8	3.1

+ 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

010-A

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: BLUFF, UT

COOP ID: 420788

Climate Division: UT 7

NWS Call Sign:

Elevation: 4,355 Feet Lat: 37°17N

Lon: 109°34W

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	.85	.66	1.03	1978	15	3.41	1993	.00+	1976	4.5	2.8	.4	@	.00	.00	.11	.24	.39	.56	.77	1.04	1.41	2.05	2.70
Feb	.67	.47	.80	1939	4	2.49	1980	.00+	1984	3.9	2.4	.2	.0	.00	.03	.12	.22	.33	.46	.62	.82	1.11	1.59	2.06
Mar	.65	.46	.90	1945	1	2.17	1973	.00+	1999	3.8	2.2	.1	.0	.00	.00	.06	.18	.31	.45	.62	.83	1.11	1.58	2.06
Apr	.49	.38	.87	1988	16	1.55	1997	.00+	1998	3.0	1.6	.2	.0	.00	.00	.00	.18	.29	.40	.51	.65	.83	1.12	1.39
May	.53	.50	.70	1980	7	2.43	1992	.00+	2000	3.1	2.0	.2	.0	.00	.00	.09	.19	.29	.40	.52	.67	.88	1.20	1.53
Jun	.21	.11	.98	1950	22	.92	1983	.00+	2000	1.5	.7	.1	.0	.00	.00	.00	.00	.00	.08	.16	.26	.38	.60	.81
Jul	.76	.50	3.60	1966	29	3.12	1986	.00+	1993	3.7	2.1	.3	@	.00	.06	.18	.29	.42	.56	.73	.94	1.22	1.70	2.16
Aug	.73	.46	3.50	2001	14	3.14	1999	.00	1985	4.1	2.4	.5	.0	.01	.04	.11	.21	.32	.46	.63	.86	1.19	1.77	2.35
Sep	.63	.45	2.80	1947	27	2.23	1997	.00	1979	3.5	2.0	.4	@	.03	.09	.19	.28	.38	.49	.62	.78	.99	1.35	1.70
Oct	1.08	.86	1.30	1969	3	6.35	1972	.00+	1999	3.9	3.1	.4	.1	.00	.00	.25	.43	.62	.83	1.07	1.36	1.75	2.41	3.04
Nov	.75	.70	.95	1947	19	2.77	1987	.00+	1999	3.7	2.7	.2	.0	.00	.08	.21	.33	.46	.59	.75	.93	1.19	1.61	2.01
Dec	.62	.45	.90+	1948	23	2.16	1978	.00+	1989	3.3	1.7	.3	.0	.00	.01	.08	.16	.26	.38	.54	.74	1.03	1.53	2.05
Ann	7.97	7.25	3.60	Jul 1966	29	6.35	Oct 1972	.00+	Jun 2000	42.0	25.7	3.3	.1	4.16	4.81	5.69	6.39	7.03	7.66	8.34	9.10	10.05	11.48	12.74

+ 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

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www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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1971-2000

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Station: BLUFF, UT

COOP ID: 420788

Climate Division: UT 7

NWS Call Sign:

Elevation: 4,355 Feet

Lat: 37° 17N

Lon: 109° 34W

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	4.5	2.8	1	#	10.0	1991	4	21.0	1974	13	1991	5	5	1991	1.7	1.5	.7	.1	@	3.7	2.2	.4	.1
Feb	2.1	.0	#	0	4.0	1982	4	17.0	1982	4	1991	2	1	1991	.8	.8	.3	.0	.0	1.2	.5	.0	.0
Mar	.1	.0	#	0	2.0	1975	27	2.0	1975	2	1998	7	#+	1998	@	@	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	#	0	.8	1999	1	.8	1999	#	1999	4	#	1999	@	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.5	.0	#	0	4.0	1994	19	4.0	1994	3	1994	19	#+	1998	.3	.2	@	.0	.0	.1	.1	.0	.0
Dec	2.6	.2	#	0	9.0	1990	20	19.0	1992	7	1990	29	3	1992	1.3	.9	.4	.1	.0	2.3	1.9	1.1	.0
Ann	9.8	3.0	N/A	N/A	10.0	Jan 1991	4	21.0	Jan 1974	13	Jan 1991	5	5	Jan 1991	4.1	3.4	1.4	.2	@	7.3	4.7	1.5	.1

+ 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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NWS Call Sign:

Elevation: 4,355 Feet

Lat: 37° 17N

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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	6/11	6/04	5/30	5/26	5/22	5/18	5/14	5/10	5/03
32	5/22	5/15	5/11	5/07	5/03	4/29	4/25	4/20	4/14
28	5/13	5/05	4/30	4/25	4/21	4/16	4/12	4/06	3/30
24	4/24	4/18	4/13	4/10	4/06	4/02	3/30	3/25	3/19
20	4/13	4/03	3/26	3/20	3/15	3/09	3/03	2/23	2/13
16	3/20	3/11	3/05	2/27	2/22	2/17	2/12	2/05	1/27
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	9/13	9/17	9/20	9/22	9/25	9/27	9/29	10/02	10/06
32	9/22	9/25	9/28	9/30	10/02	10/04	10/06	10/08	10/12
28	9/28	10/03	10/07	10/10	10/13	10/16	10/20	10/24	10/29
24	10/16	10/21	10/24	10/27	10/30	11/01	11/04	11/08	11/12
20	10/24	10/29	11/01	11/04	11/06	11/09	11/12	11/15	11/20
16	11/02	11/09	11/13	11/18	11/21	11/25	11/29	12/04	12/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	145	138	133	129	125	120	116	111	104
32	176	167	161	156	151	146	141	135	127
28	203	193	186	180	175	169	163	156	146
24	232	223	216	211	206	201	196	189	181
20	272	259	251	243	236	229	221	213	200
16	303	292	284	278	271	265	258	251	240

* 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

Complete documentation available from:

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Climate Division: UT 7 NWS Call Sign: Elevation: 4,355 Feet Lat: 37°17N Lon: 109°34W

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	1091	780	596	356	143	23	0	3	65	375	755	1065	5252
60	936	640	441	225	63	5	0	0	20	234	605	910	4079
57	843	556	351	159	33	1	0	0	7	161	515	817	3443
55	781	500	293	122	20	0	0	0	3	119	455	755	3048
50	636	366	165	52	4	0	0	0	0	44	306	601	2174
32	204	47	1	0	0	0	0	0	0	0	9	151	412

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	135	192	429	640	934	1161	1397	1343	1029	651	244	109	8264
55	0	0	7	72	241	471	684	630	342	57	0	0	2504
57	0	0	3	49	192	412	622	568	286	37	0	0	2169
60	0	0	1	25	129	325	529	475	208	17	0	0	1709
65	0	0	0	6	54	194	375	323	104	3	0	0	1059
70	0	0	0	0	15	94	228	186	39	0	0	0	562

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	6	54	215	419	705	939	1176	1121	814	430	86	4	6	60	275	694	1399	2338	3514	4635	5449	5879	5965	5969
45	0	13	102	277	550	789	1021	966	664	286	29	0	0	13	115	392	942	1731	2752	3718	4382	4668	4697	4697
50	0	0	34	157	395	639	866	811	514	154	4	0	0	0	34	191	586	1225	2091	2902	3416	3570	3574	3574
55	0	0	5	66	251	489	711	656	365	62	0	0	0	0	5	71	322	811	1522	2178	2543	2605	2605	2605
60	0	0	0	20	133	341	556	501	228	15	0	0	0	0	0	20	153	494	1050	1551	1779	1794	1794	1794
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	14	73	200	325	482	583	722	704	538	343	107	16	14	87	287	612	1094	1677	2399	3103	3641	3984	4091	4107

(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