

Climatography of the United States

No. 20

1971-2000

Station: BLANDING, UT

COOP ID: 420738

Climate Division: UT 7

NWS Call Sign: 4BL

Elevation: 6,040 Feet Lat: 37° 37N

Lon: 109° 29W

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	41.7	18.4	30.1	62	1918	1	37.3	1999	-20	1963	12	21.8	1979	1085	0	.0	.0	4.6	5.5	30.2	1.2
Feb	47.7	23.8	35.8	71	1906	28	44.2	1995	-23	1933	8	28.5	1974	819	0	.0	.0	9.7	1.5	25.6	.4
Mar	55.4	29.9	42.7	86	1906	31	48.2	1972	-3	1975	28	37.8	1980	692	0	.0	.0	21.0	.1	21.6	@
Apr	64.0	36.2	50.1	88+	1905	19	57.6	1992	10	1913	24	44.0	1983	452	4	.0	.0	26.6	.0	11.5	.0
May	74.1	45.0	59.6	97	2000	29	65.0	2000	15	1910	16	53.9	1995	202	32	.0	.4	30.7	.0	2.0	.0
Jun	85.9	54.2	70.1	110	1905	22	75.5	1994	28+	1908	3	64.9	1995	34	184	.4	8.2	30.0	.0	.0	.0
Jul	91.0	60.4	75.7	109	1905	19	79.4	1996	36	1934	15	72.6	1986	0	332	.6	17.6	31.0	.0	.0	.0
Aug	88.5	58.7	73.6	106	1905	18	77.1	1994	38	1968	23	70.7	1987	2	269	.1	11.0	31.0	.0	.0	.0
Sep	80.2	50.8	65.5	100	1905	1	69.9	1990	20+	1908	26	59.4	1986	79	93	.0	1.6	30.0	.0	.2	.0
Oct	67.0	40.2	53.6	99+	1905	8	59.0	1988	0	1998	28	47.7	1984	361	7	.0	.0	28.8	.0	5.8	.0
Nov	52.2	28.4	40.3	74+	1905	4	47.3	1999	-7	1931	25	35.2	1979	740	0	.0	.0	16.5	.5	22.3	@
Dec	43.6	20.9	32.3	65	1929	3	40.9	1980	-13	1990	23	24.0	1978	1016	0	.0	.0	5.3	3.4	30.0	.5
Ann	65.9	38.9	52.5	110	Jun 1905	22	79.4	Jul 1996	-23	Feb 1933	8	21.8	Jan 1979	5482	921	1.1	38.8	265.2	11.0	149.2	2.1

+ 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: 1904-2001

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

008-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: BLANDING, UT

COOP ID: 420738

Climate Division: UT 7

NWS Call Sign: 4BL

Elevation: 6,040 Feet Lat: 37°37N

Lon: 109°29W

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	1.54	1.21	1.49	1978	15	5.31	1993	.00	1972	6.7	4.4	.7	.1	.05	.15	.36	.58	.83	1.11	1.45	1.88	2.47	3.47	4.46
Feb	1.11	.99	1.50	1908	3	3.73	1993	.00	1972	6.0	3.3	.4	@	.04	.13	.29	.45	.63	.83	1.07	1.36	1.77	2.45	3.12
Mar	1.06	.75	1.13	1970	1	3.62	2000	.00	1972	6.5	3.6	.4	.0	.01	.06	.17	.31	.47	.68	.93	1.26	1.74	2.57	3.40
Apr	.86	.77	1.33	1987	4	2.91	1999	.00	2000	5.2	2.5	.4	.1	.02	.07	.18	.30	.44	.60	.79	1.04	1.38	1.97	2.55
May	.79	.68	1.26	1994	25	2.33	1992	.00	1972	5.3	2.3	.3	@	.05	.13	.25	.37	.49	.62	.78	.97	1.23	1.65	2.06
Jun	.46	.22	1.40	1938	28	1.71	1973	.00+	1994	3.0	1.1	.3	@	.00	.00	.04	.10	.18	.27	.39	.55	.78	1.18	1.60
Jul	1.30	1.14	1.74	1985	21	3.15	1977	.01	1993	7.2	3.5	.6	.2	.09	.17	.34	.52	.72	.95	1.22	1.57	2.06	2.88	3.70
Aug	1.19	.90	4.48	1968	1	4.34	1987	.03	1985	7.9	3.2	.5	.1	.10	.18	.33	.50	.68	.89	1.13	1.44	1.88	2.60	3.31
Sep	1.25	.99	1.60	1927	9	3.36	1985	.12	1979	5.8	3.3	.7	.1	.23	.34	.52	.69	.87	1.05	1.27	1.52	1.87	2.42	2.94
Oct	1.60	1.40	2.00	1928	31	6.62	1972	.00+	1999	6.1	4.0	1.1	.2	.00	.14	.41	.66	.93	1.22	1.57	1.99	2.57	3.53	4.47
Nov	1.11	1.10	2.79	1919	27	2.75	1987	.00+	1989	5.1	3.1	.5	.1	.00	.17	.39	.57	.74	.93	1.14	1.39	1.72	2.26	2.77
Dec	1.00	.76	2.80	1908	16	4.34	1978	.00	1989	5.3	2.7	.4	.1	.02	.07	.19	.33	.49	.68	.91	1.20	1.63	2.35	3.07
Ann	13.27	13.16	4.48	Aug 1968	1	6.62	Oct 1972	.00+	Apr 2000	70.1	37.0	6.3	1.0	7.74	8.73	10.04	11.06	11.99	12.90	13.86	14.93	16.26	18.22	19.96

+ 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: 1904-2001

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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: BLANDING, UT

COOP ID: 420738

Climate Division: UT 7

NWS Call Sign: 4BL

Elevation: 6,040 Feet

Lat: 37° 37N

Lon: 109° 29W

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	14.3	11.3	4	2	14.0	1978	15	46.9	1979	21	1979	31	15	1979	5.7	4.4	1.9	.9	.1	14.9	13.1	10.6	4.1
Feb	6.9	5.5	3	1	7.0	1987	24	21.7	1979	27	1979	2	17	1979	3.5	2.3	1.0	.4	.0	7.2	5.0	3.3	1.7
Mar	4.1	1.8	#	#	5.3	1983	24	16.0	2000	15	1979	3	4	1979	2.7	1.6	.5	@	.0	1.2	.0	.0	.0
Apr	2.4	.8	#	0	5.6	1987	4	12.9	1983	8	1983	5	1	1983	1.3	1.0	.4	.1	.0	.3	.2	.1	.0
May	.3	.0	#	0	4.0	1978	5	4.0	1978	#	1978	5	#	1978	.2	.1	@	.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	.4	.0	#	0	2.3	1984	15	6.0	1984	#+	1997	24	#+	1997	.3	.2	.0	.0	.0	.0	.0	.0	.0
Nov	4.0	3.0	#	0	8.0	1994	19	12.0	1996	7	1979	23	2	1979	2.2	1.5	.3	.1	.0	2.1	.7	.3	.0
Dec	6.3	4.0	1	#	16.0	1978	17	31.6	1978	13	1971	13	7	1978	3.2	2.3	.7	.4	.1	5.7	3.2	2.0	.6
Ann	38.7	26.4	N/A	N/A	16.0	Dec 1978	17	46.9	Jan 1979	27	Feb 1979	2	17	Feb 1979	19.1	13.4	4.8	1.9	.2	31.4	22.2	16.3	6.4

+ 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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Elevation: 6,040 Feet

Lat: 37° 37N

Lon: 109° 29W

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	6/15	6/08	6/04	5/31	5/28	5/24	5/20	5/16	5/10
32	5/25	5/19	5/15	5/12	5/08	5/05	5/02	4/27	4/22
28	5/15	5/08	5/03	4/29	4/24	4/20	4/16	4/11	4/04
24	4/30	4/22	4/17	4/12	4/08	4/04	3/30	3/25	3/17
20	4/20	4/12	4/05	3/31	3/27	3/22	3/17	3/10	3/02
16	3/27	3/17	3/10	3/04	2/26	2/20	2/14	2/07	1/28
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	9/16	9/21	9/25	9/28	10/01	10/04	10/08	10/12	10/17
32	9/26	10/02	10/06	10/10	10/14	10/17	10/21	10/25	10/31
28	10/04	10/11	10/15	10/19	10/23	10/26	10/30	11/04	11/10
24	10/16	10/22	10/26	10/29	11/02	11/05	11/09	11/13	11/19
20	10/29	11/03	11/07	11/10	11/13	11/16	11/19	11/22	11/27
16	11/09	11/14	11/18	11/21	11/24	11/27	11/30	12/04	12/09
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	151	143	136	131	126	121	116	109	101
32	182	173	167	162	157	153	147	141	133
28	211	201	193	187	181	174	168	160	150
24	239	228	220	213	207	201	194	186	175
20	260	250	243	236	231	225	218	211	201
16	305	293	284	277	270	263	256	248	236

* 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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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	1085	819	692	452	202	34	0	2	79	361	740	1016	5482
60	930	679	538	316	103	9	0	0	28	229	590	861	4283
57	837	595	448	243	62	3	0	0	12	162	501	768	3631
55	775	539	390	200	42	1	0	0	6	124	442	706	3225
50	620	401	256	113	12	0	0	0	1	54	301	551	2309
32	174	51	12	2	0	0	0	0	0	0	17	112	368

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	112	156	343	543	853	1141	1354	1290	1005	669	266	119	7851
55	0	0	8	52	182	452	641	577	321	80	2	0	2315
57	0	0	5	35	140	394	579	515	267	56	0	0	1991
60	0	0	1	18	88	309	486	422	192	30	0	0	1546
65	0	0	0	4	32	184	332	269	93	7	0	0	921
70	0	0	0	0	7	90	181	131	33	1	0	0	443

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	2	36	126	292	570	863	1061	1003	729	397	86	4	2	38	164	456	1026	1889	2950	3953	4682	5079	5165	5169
45	0	5	53	173	417	713	906	848	579	263	28	0	0	5	58	231	648	1361	2267	3115	3694	3957	3985	3985
50	0	0	12	84	277	564	751	693	430	146	5	0	0	0	12	96	373	937	1688	2381	2811	2957	2962	2962
55	0	0	0	29	155	414	596	538	289	60	0	0	0	0	0	29	184	598	1194	1732	2021	2081	2081	2081
60	0	0	0	6	69	274	441	383	161	18	0	0	0	0	0	6	75	349	790	1173	1334	1352	1352	1352
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	2	31	107	214	373	552	677	653	465	257	66	8	2	33	140	354	727	1279	1956	2609	3074	3331	3397	3405

(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