## 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

COOP ID: 100915

Lon: 112°19W

Station: BLACKFOOT 1 SE, ID

Climate Division: ID 9 NWS Call Sign:

										Гетр	eratui	<b>re</b> (° <b>F</b> )										
	Mea	<b>n</b> (1)						Extr	emes					Degree Base To	•	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	30.5	14.0	22.3	60	1981	1	31.3	1998	-33	1962	22	10.4	1979	1326	0	.0	.0	.4	16.2	29.5	5.1	
Feb	37.4	18.6	28.0	66	1986	28	35.7	1992	-35	1985	1	14.4	1985	1036	0	.0	.0	2.9	7.7	26.2	2.2	
Mar	48.7	25.5	37.1	77	1986	28	44.5	1986	-13	1993	1	24.8	1985	866	0	.0	.0	14.2	1.3	26.0	.2	
Apr	59.0	31.4	45.2	85	1962	19	51.0	1992	11	1968	8	37.8	1975	594	0	.0	.0	25.0	.0	16.1	.0	
May	67.8	38.5	53.2	94	1954	19	59.0	1992	17	1972	1	49.1	1975	369	1	.0	@	29.9	.0	5.0	.0	
Jun	77.3	44.9	61.1	100	1988	25	67.6	1988	28	1995	7	56.9	1998	157	41	@	2.5	30.0	.0	.5	.0	
Jul	85.0	50.0	67.5	101+	2000	31	71.8	1985	34	1986	6	59.7	1993	49	126	.1	8.9	31.0	.0	.0	.0	
Aug	84.8	48.7	66.8	104	1958	14	70.1	2000	28	1992	25	62.1	1993	51	104	.0	7.3	31.0	.0	.2	.0	
Sep	74.8	40.5	57.7	98	1950	3	63.4	1998	20+	1983	19	53.5+	1986	237	16	.0	.8	29.8	.0	3.6	.0	
Oct	61.9	31.6	46.8	88	1963	3	53.4	1988	12	1971	29	42.1	1984	566	0	.0	.0	27.3	@	15.9	.0	
Nov	43.9	22.9	33.4	74	1999	6	40.5	1999	-16	1993	25	24.2	1985	948	0	.0	.0	8.9	4.4	25.4	.8	
Dec	32.0	14.2	23.1	69	1976	29	31.8	1980	-29+	1990	22	11.0	1985	1299	0	.0	.0	.9	14.6	29.3	3.3	
Ann	58.6	31.7	45.2	104	Aug 1958	14	71.8	Jul 1985	-35	Feb 1985	1	10.4	Jan 1979	7498	288	.1	19.5	231.3	44.2	177.7	11.6	

<sup>+</sup> Also occurred on an earlier date(s)

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

Issue Date: February 2004 010-A

(1) From the 1971-2000 Monthly Normals

Elevation: 4,498 Feet Lat: 43°11N

- (2) Derived from station's available digital record: 1948-2001
- (3) Derived from 1971-2000 serially complete daily data

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

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COOP ID: 100915

**Station: BLACKFOOT 1 SE, ID** 

Climate Division: ID 9 NWS Call Sign: Elevation: 4,498 Feet Lat: 43°11N Lon: 112°19W

										Pı	recipi	tation	(incl	nes)										
	Me	ans/	P	recip	itatio	on Total	s			M	ean N	Numb Oays (3		Proba	ability th		nonthly/	annual <sub>j</sub> indic	precipita ated an		ll be equ		less tha	ın the
		ians(1)				Extreme	5			D	aily Pre	cipitatio	n		Th				_	incomplet			ion	
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	.86	.81	1.50	1988	5	2.29	1971	.00	1993	6.7	2.3	.2	@	.03	.10	.22	.34	.48	.64	.82	1.05	1.37	1.91	2.43
Feb	.73	.59	.74	1963	1	2.08	1986	.00	1997	6.5	2.6	@	.0	.04	.11	.22	.33	.44	.57	.72	.90	1.14	1.55	1.94
Mar	.89	.80	1.19	1995	21	3.21	1995	.03	1988	5.8	2.6	.2	@	.10	.16	.29	.41	.54	.69	.87	1.09	1.39	1.89	2.37
Apr	.93	.83	2.07	2000	18	2.34	2000	.00	1985	5.7	2.9	.4	.1	.05	.14	.29	.42	.57	.73	.92	1.15	1.46	1.98	2.48
May	1.33	1.03	1.70	1993	6	3.92	1981	.00	1989	7.2	4.2	.7	.2	.05	.16	.35	.54	.75	.99	1.27	1.63	2.12	2.93	3.74
Jun	.87	.53	1.46	1952	25	4.04	1995	.00+	1996	5.0	2.5	.4	.1	.00	.04	.15	.27	.42	.59	.79	1.06	1.43	2.07	2.71
Jul	.53	.34	1.55	1973	20	2.51	1973	.00+	1999	2.7	1.4	.2	.1	.00	.00	.00	.07	.18	.30	.46	.65	.93	1.41	1.88
Aug	.45	.33	1.24	1972	14	1.72	1972	.00+	1992	2.8	1.3	.2	@	.00	.00	.03	.11	.20	.29	.41	.56	.76	1.10	1.44
Sep	.70	.48	1.10+	1998	12	2.64	1998	.00+	1999	3.7	1.9	.3	@	.00	.00	.05	.15	.28	.42	.61	.85	1.19	1.78	2.37
Oct	.84	.75	1.60	1961	22	2.40	1971	.00+	1996	5.0	2.5	.4	@	.00	.05	.18	.31	.45	.61	.80	1.03	1.36	1.91	2.45
Nov	.81	.77	.90	1954	16	2.16	1983	.00+	1999	7.1	2.8	.1	.0	.00	.00	.33	.47	.60	.72	.87	1.03	1.24	1.57	1.88
Dec	.75	.42	1.17	1967	31	2.61	1996	.00+	1998	7.8	2.9	.2	.0	.00	.00	.13	.25	.38	.53	.71	.93	1.24	1.76	2.27
Ann	9.69	9.73	2.07	Apr 2000	18	4.04	Jun 1995	.00+	Nov 1999	66.0	29.9	3.3	.5	4.10	4.98	6.21	7.22	8.16	9.12	10.15	11.34	12.84	15.12	17.19

<sup>+</sup> Also occurred on an earlier date(s)

Complete documentation available from:

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

<sup>#</sup> Denotes amounts of a trace

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>\*\*</sup> Statistics not computed because less than six years out of thirty had measurable precipitation

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1948-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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**COOP ID: 100915** 

Station: BLACKFOOT 1 SE, ID

Climate Division: ID 9 NWS Call Sign: Elevation: 4,498 Feet Lat: 43°11N Lon: 112°19W

										Snov	v (incl	hes)											
						Sno	ow To	tals									Mea	n Nui	mber	of Day	<b>VS</b> (1)		
	Mean	s/Medi	ians (1)	1					Extre	mes (2)							ow Fa					Depth esholo	
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	3.7	-99.9	2	0	5.0	1996	21	18.3	1996	10	1974	11	9	1974	1.1	.7	.4	.1	.0	-9.9	-9.9	-9.9	-9.9
Feb	3.9	3.3	1	0	5.6	1973	18	9.4	1972	8+	1979	5	7	1979	1.1	1.1	.3	.1	.0	-9.9	-9.9	-9.9	-9.9
Mar	1.2	.0	0	0	4.8	1973	11	5.0	1976	3	1974	2	3	1974	.5	.3	.2	.0	.0	-9.9	-9.9	-9.9	-9.9
Apr	1.0	.0	#	0	9.0	1976	27	17.0	1976	#	1972	13	#	1972	.1	.1	.1	.1	.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	#	1982	1	#	1982	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	.2	.0	0	0	3.1	1971	1	3.1	1971	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
Nov	1.6	.0	#	0	4.7	1973	24	5.5	1977	6	1979	19	1+	1986	.8	.7	.2	.0	.0	-9.9	-9.9	-9.9	-9.9
Dec	4.9	3.2	1	0	8.3	1982	1	16.1	1971	9	1973	30	4	1972	2.0	1.2	.5	.3	.0	-9.9	-9.9	-9.9	-9.9
Ann	16.5	-9.9	N/A	N/A	9.0	Apr 1976	27	18.3	Jan 1996	10	Jan 1974	11	9	Jan 1974	5.7	4.2	1.8	.6	.0	-9.9	-9.9	-9.9	-9.9

<sup>+</sup> Also occurred on an earlier date(s) #Denotes trace amounts

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

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>-9/-9.9</sup> represents missing values Annual statistics for Mean/Median snow depths are not appropriate

<sup>(1)</sup> Derived from Snow Climatology and 1971-2000 daily data

<sup>(2)</sup> Derived from 1971-2000 daily data

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1971-2000

Station: BLACKFOOT 1 SE, ID

Climate Division: ID 9 NWS Call Sign: Elevation: 4,498 Feet Lat: 43°11N Lon: 112°19W

				Freez	ze Data									
			Spri	ng Freeze D	ates (Month/	Day)								
Probability of later date in spring (thru Jul 31) than indicated(*)   10														
Temp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90					
36	6/29	6/24	6/19	6/16	6/13	6/09	6/06	6/02	5/27					
32	6/15	6/09	6/05	6/01	5/28	5/25	5/21	5/16	5/10					
28	5/23	5/17	5/13	5/09	5/06	5/03	4/29	4/25	4/19					
24	5/07	5/01	4/27	4/24	4/21	4/18	4/15	4/11	4/05					
20	4/23	4/17	4/12	4/08	4/04	3/31	3/27	3/23	3/16					
16	4/14	4/04	3/29	3/23	3/18	3/12	3/06	2/28	2/18					
			Fal	ll Freeze Da	tes (Month/D	ay)								
Tomp (F)		Pro	bability of ea	arlier date i	n fall (beginn	ing Aug 1) t	han indicate	ed(*)						
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90					
36	8/21	8/27	8/31	9/03	9/06	9/10	9/13	9/17	9/23					
32	9/02	9/08	9/11	9/15	9/18	9/21	9/24	9/28	10/04					
28	9/15	9/20	9/24	9/28	10/01	10/04	10/07	10/11	10/16					
24	9/23	9/29	10/03	10/07	10/10	10/14	10/18	10/22	10/28					
20	10/07	10/12	10/16	10/20	10/23	10/26	10/29	11/02	11/08					
16	10/21	10/26	10/31	11/03	11/07	11/10	11/13	11/18	11/23					
				Freeze F	ree Period									
Tomp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)	)						
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90					
36	108	100	95	90	85	81	76	70	62					
32	134	126	121	116	112	108	103	98	90					
28	170	162	156	152	147	142	138	132	124					
24	196	187	181	176	172	167	162	156	147					
20	227	218	212	206	201	196	191	184	175					
16	263	253	246	239	233	227	221	213	203					

<sup>\*</sup> 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.

Complete documentation available from:

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				Deg	ree Days to	o Selected	Base Tem	peratures	(°F)				
Base						Heatin	g Degree l	Days (1)					
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1326	1036	866	594	369	157	49	51	237	566	948	1299	7498
60	1171	896	711	447	224	71	12	12	126	412	798	1144	6024
57	1078	812	618	363	150	37	4	3	76	322	708	1051	5222
55	1016	756	558	309	109	22	1	1	51	265	648	989	4725
50	861	622	415	192	38	4	0	0	13	144	505	834	3628
32	363	215	67	8	0	0	0	0	0	2	118	335	1108

Base	Cooling Degree Days (1)           Jan         Feb         Mar         Apr         May         Jun         Jul         Aug         Sep         Oct         Nov         Dec         Ann           61         104         224         404         655         874         1101         1077         769         459         159         59         5946														
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann		
32	61	104	224	404	655	874	1101	1077	769	459	159	59	5946		
55	0	0	2	15	51	206	389	365	130	9	0	0	1167		
57	0	0	0	9	30	161	329	305	95	4	0	0	933		
60	0	0	0	3	11	105	245	220	55	1	0	0	640		
65	0	0	0	0	1	41	126	104	16	0	0	0	288		
70	0	0	0	0	0	11	48	33	3	0	0	0	95		

										Gro	wing	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (M	(Ionthly)								Growi	ng Degre	ee Units (	Accumu	lated Mo	onthly)			
	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	11	55	202	432	666	879	851	555	253	37	2	0	11	66	268	700	1366	2245	3096	3651	3904	3941	3943
45												0	0	0	15	119	407	924	1648	2344	2750	2890	2896	2896
50												0	0	0	1	45	208	576	1145	1686	1955	2014	2014	2014
55	0	0	0	15	73	228	414	388	150	15	0	0	0	0	0	15	88	316	730	1118	1268	1283	1283	1283
60	0	0	0	0	22	116	265	236	64	0	0	0	0	0	0	0	22	138	403	639	703	703	703	703
Base	se Growing Degree Units for Corn (Monthly)														Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)		•
50/86	<b>50/86</b> 0 7 55 161 292 430 562 554 389 210 31											0	0	7	62	223	515	945	1507	2061	2450	2660	2691	2691

(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

### 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

- c. Snow Tables
  - 1. Snow Climatology
  - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

## 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