

Climatology of the United States

No. 20

1971-2000

Station: BLISS 4 NW, ID

COOP ID: 101002

Climate Division: ID 7

NWS Call Sign:

Elevation: 3,275 Feet Lat: 42° 57N

Lon: 115° 01W

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	35.9	18.4	27.2	65	1953	12	34.7+	1998	-30	1937	21	16.9	1979	1173	0	.0	.0	2.2	8.5	28.1	1.6
Feb	43.1	22.8	33.0	69+	1995	22	41.6	1992	-35	1933	9	21.3	1985	897	0	.0	.0	8.5	3.1	23.0	.6
Mar	53.7	28.4	41.1	80	1978	29	46.9	1986	2+	1993	1	32.2	1985	743	0	.0	.0	23.2	.3	21.1	.0
Apr	62.8	34.5	48.7	91	1992	29	54.1+	1990	10+	1936	2	41.7	1975	491	0	.0	.1	29.0	.0	10.5	.0
May	71.8	41.9	56.9	100	1954	19	62.9	1992	17	1938	6	52.8	1977	267	13	.0	1.2	30.9	.0	2.6	.0
Jun	81.6	49.2	65.4	109	1940	19	70.8	1986	27	1954	2	60.0	1998	90	101	.6	7.4	30.0	.0	.1	.0
Jul	90.1	54.3	72.2	110	1934	28	75.7	1998	35+	1986	6	64.4	1993	14	237	2.6	20.2	31.0	.0	.0	.0
Aug	89.1	52.3	70.7	107+	1990	7	75.1	1998	29	1940	4	66.9	1976	21	196	1.4	18.1	31.0	.0	.0	.0
Sep	78.8	44.2	61.5	104+	1955	6	68.5	1998	15	1934	26	52.9	1985	168	63	.1	4.2	30.0	.0	1.5	.0
Oct	66.2	34.4	50.3	92	1964	7	59.7	1988	6	1971	29	44.8	1985	459	3	.0	.1	29.3	.0	10.0	.0
Nov	48.0	25.9	37.0	77	1949	5	44.1	1999	-11	1955	16	25.8	1985	841	0	.0	.0	13.6	1.9	21.0	.2
Dec	37.2	19.5	28.4	68	1939	10	38.9	1995	-21+	1990	22	12.5	1985	1136	0	.0	.0	3.1	7.3	27.7	1.8
Ann	63.2	35.5	49.4	110	Jul 1934	28	75.7	Jul 1998	-35	Feb 1933	9	12.5	Dec 1985	6300	613	4.7	51.3	261.8	21.1	145.6	4.2

+ 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: 1931-2000

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

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: BLISS 4 NW, ID

COOP ID: 101002

Climate Division: ID 7

NWS Call Sign:

Elevation: 3,275 Feet Lat: 42°57N

Lon: 115°01W

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	1.49	1.41	1.26	1936	2	3.37	1972	.12	1992	9.4	5.0	.5	.1	.32	.45	.67	.87	1.07	1.28	1.52	1.81	2.18	2.78	3.35
Feb	1.12	.91	.85	1982	14	3.82	1986	.00	1997	8.4	4.1	.3	.0	.16	.30	.49	.65	.81	.97	1.16	1.37	1.66	2.12	2.55
Mar	1.01	.92	.90	1943	8	3.03	1993	.00+	1997	8.1	3.4	.3	.0	.00	.18	.38	.55	.70	.87	1.05	1.27	1.55	2.02	2.45
Apr	.76	.74	.72	1944	20	1.52	1990	.23	1989	6.6	2.6	.2	.0	.24	.31	.42	.51	.60	.69	.79	.91	1.07	1.31	1.53
May	.80	.67	1.26	1953	29	2.33	1990	.00+	1997	6.6	2.9	.2	@	.00	.15	.31	.44	.56	.69	.83	1.00	1.22	1.58	1.91
Jun	.54	.33	1.05	1969	24	2.62	1993	.04	1996	4.9	1.8	.2	@	.03	.06	.12	.19	.27	.37	.49	.65	.87	1.24	1.62
Jul	.25	.16	.93	1932	12	.90	1982	.00+	1996	2.0	.8	.0	.0	.00	.00	.00	.04	.08	.14	.21	.30	.43	.65	.87
Aug	.27	.13	1.15	1978	16	1.45	1976	.00+	1996	2.3	.8	.1	@	.00	.00	.00	.03	.07	.12	.20	.31	.46	.74	1.03
Sep	.53	.34	1.11	1961	9	2.05+	1985	.00+	1993	3.2	1.7	.2	.0	.00	.00	.05	.13	.21	.32	.46	.64	.89	1.34	1.79
Oct	.69	.56	.97	1946	1	2.49	1975	.00+	1988	4.5	2.1	.2	.0	.00	.03	.11	.21	.33	.46	.63	.84	1.14	1.66	2.17
Nov	1.43	1.12	2.00	1983	30	4.43	1983	.03	1976	8.8	4.6	.5	@	.18	.30	.50	.70	.91	1.14	1.41	1.75	2.20	2.94	3.66
Dec	1.22	.91	1.37	1964	23	3.25	1981	.00	1976	8.6	4.1	.5	.0	.05	.15	.33	.51	.70	.92	1.18	1.50	1.95	2.69	3.41
Ann	10.11	10.38	2.00	Nov 1983	30	4.43	Nov 1983	.00+	May 1997	73.4	33.9	3.2	.1	6.67	7.32	8.16	8.80	9.37	9.93	10.52	11.16	11.95	13.11	14.12

+ 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: 1931-2000

(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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NWS Call Sign:

Elevation: 3,275 Feet

Lat: 42° 57N

Lon: 115° 01W

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	5.9	3.9	2	1	10.0	1984	14	16.0	1996	16	1982	23	11	1982	3.2	1.9	.6	.3	@	11.7	7.5	3.1	.7
Feb	3.4	1.8	1	#	7.0	1976	16	15.0	1976	12	1996	4	5	1982	1.9	1.3	.3	.1	.0	4.8	2.5	1.1	.2
Mar	.5	.0	#	0	6.0	1979	1	6.0	1979	6	1985	5	2	1985	.4	.2	.1	@	.0	1.0	.3	.2	.0
Apr	.2	.0	0	0	1.5	1975	6	3.3	1975	0	0	0	0	0	.2	.1	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.5	1975	20	.5	1975	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	.1	.0	0	0	2.0	1971	31	2.0	1971	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	3.9	.8	#	#	8.5	1984	10	25.0	1985	18	1985	29	5	1985	1.9	1.4	.5	.2	.0	2.6	1.4	.9	.3
Dec	4.3	4.0	1	#	6.0	1996	6	22.5	1983	17	1985	1	12	1985	2.8	1.9	.4	.1	.0	6.7	3.7	1.9	1.4
Ann	18.3	10.5	N/A	N/A	10.0	Jan 1984	14	25.0	Nov 1985	18	Nov 1985	29	12	Dec 1985	10.4	6.8	1.9	.7	@	26.8	15.4	7.2	2.6

+ 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

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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	6/22	6/15	6/10	6/05	6/01	5/28	5/23	5/18	5/11
32	6/01	5/26	5/21	5/18	5/14	5/11	5/07	5/02	4/26
28	5/14	5/08	5/04	5/01	4/27	4/24	4/20	4/16	4/10
24	4/30	4/22	4/17	4/13	4/09	4/04	3/31	3/26	3/18
20	4/16	4/05	3/29	3/23	3/17	3/11	3/05	2/25	2/15
16	3/23	3/14	3/07	3/01	2/24	2/18	2/12	2/06	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	9/02	9/07	9/11	9/15	9/18	9/21	9/25	9/29	10/05
32	9/16	9/21	9/26	9/29	10/03	10/06	10/09	10/14	10/19
28	9/25	10/01	10/05	10/09	10/12	10/16	10/20	10/24	10/30
24	10/11	10/17	10/21	10/24	10/28	10/31	11/03	11/07	11/13
20	10/18	10/25	10/31	11/04	11/09	11/13	11/18	11/23	11/30
16	11/01	11/08	11/13	11/17	11/21	11/25	11/30	12/05	12/12
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	139	129	121	115	109	102	96	88	78
32	165	156	150	145	141	136	131	125	117
28	195	186	179	173	167	162	156	149	140
24	230	220	213	207	201	196	190	183	173
20	273	260	251	243	236	229	221	212	199
16	305	293	284	277	270	263	256	247	235

* 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	1173	897	743	491	267	90	14	21	168	459	841	1136	6300
60	1018	757	588	349	147	33	2	4	88	315	691	981	4973
57	925	673	496	269	93	16	0	1	54	239	601	888	4255
55	863	621	437	220	65	9	0	0	37	193	543	826	3814
50	709	491	297	121	20	1	0	0	11	100	405	680	2835
32	243	134	23	0	0	0	0	0	0	1	70	237	708

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	93	161	303	499	769	1002	1246	1198	885	568	219	125	7068
55	0	4	4	29	121	320	533	486	232	48	2	0	1779
57	0	0	1	18	88	267	471	425	189	31	0	0	1490
60	0	0	0	8	49	195	380	334	133	15	0	0	1114
65	0	0	0	0	13	101	237	196	63	3	0	0	613
70	0	0	0	0	2	40	122	90	23	0	0	0	277

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	37	133	308	545	787	1022	977	673	357	76	11	2	39	172	480	1025	1812	2834	3811	4484	4841	4917	4928
45	0	10	51	185	395	637	867	822	524	222	27	0	0	10	61	246	641	1278	2145	2967	3491	3713	3740	3740
50	0	0	13	94	254	489	712	667	380	118	6	0	0	0	13	107	361	850	1562	2229	2609	2727	2733	2733
55	0	0	0	38	141	341	557	512	247	43	0	0	0	0	0	38	179	520	1077	1589	1836	1879	1879	1879
60	0	0	0	14	64	210	403	360	133	12	0	0	0	0	0	14	78	288	691	1051	1184	1196	1196	1196
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	28	103	225	361	499	629	608	449	261	55	0	0	28	131	356	717	1216	1845	2453	2902	3163	3218	3218

(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:
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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.

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