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: 104460

Lon: 112°57W

Station: IDAHO FALLS 46 W, ID

Climate Division: ID 9 NWS Call Sign:

	Max Min Daily(2) Mean Daily(2) Mean																					
	Mea	n (1)						Extr	emes						•		Mean	an Number of Days (3)				
Month	Daily Max Min Mean Highest Daily(2) Year Day Month(1) Year Lowe Daily(2)							Year	Day	Month(1)	Year	Heating	Cooling	>=	>=	>=	<=	<=	Min <= 0			
Jan	27.9	4.5	16.2	51	1974	16	24.7	1981	-40	1962	21	6.1	1979	1513	0	.0	.0	.1	20.9	30.7	11.3	
Feb	34.0	10.2	22.1	60	1992	28	33.3	1992	-36	1985	1	7.1	1985	1201	0	.0	.0	1.2	11.4	27.8	6.5	
Mar	44.8	20.7	32.8	73	1986	28	41.2	1992	-28	1960	1	18.2	1985	999	0	.0	.0	9.7	2.8	29.0	1.2	
Apr	56.9	27.9	42.4	86	1992	30	49.4	1987	6	1997	12	35.8	1975	677	0	.0	.0	22.4	.0	21.3	.0	
May	66.3	36.1	51.2	91	1954	19	58.2	1992	13	1972	1	47.2	1977	429	1	.0	@	29.2	.0	9.3	.0	
Jun	76.8	43.2	60.0	100+	1988	25	66.8	1988	23	1979	8	54.7	1993	193	43	.1	2.9	29.9	.0	1.7	.0	
Jul	86.6	48.5	67.6	101+	1998	17	71.6	1988	28	1986	6	58.5	1993	57	137	.1	12.3	31.0	.0	.2	.0	
Aug	85.7	46.7	66.2	101+	2000	1	70.0	1971	24	1992	26	61.2	1993	64	101	.2	10.8	31.0	.0	.5	.0	
Sep	74.6	36.8	55.7	96	1955	6	61.7	1990	12	1970	25	50.6	1985	294	14	.0	1.4	29.6	.0	7.9	.0	
Oct	60.9	25.9	43.4	87	1992	2	50.4	1988	1	1991	30	39.3	1984	670	0	.0	.0	25.9	.2	23.0	.0	
Nov	41.4	15.9	28.7	67+	1980	6	35.0	1999	-24+	1993	26	19.8	1985	1091	0	.0	.0	6.6	6.1	28.2	2.2	
Dec	29.4	4.8	17.1	57	1995	1	26.0	1980	-47	1983	23	7.6	1990	1485	0	.0	.0	.2	18.2	30.6	10.6	
Ann	57.1	26.8	42.0	101+	Aug 2000	1	71.6	Jul 1988	-47	Dec 1983	23	6.1	Jan 1979	8673	296	.4	27.4	216.8	59.6	210.2	31.8	

⁺ Also occurred on an earlier date(s)

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

Issue Date: February 2004 053-A

(1) From the 1971-2000 Monthly Normals

Elevation: 4,938 Feet Lat: 43°32N

- (2) Derived from station's available digital record: 1954-2001
- (3) Derived from 1971-2000 serially complete daily data

[@] Denotes mean number of days greater than 0 but less than .05

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										Pı	recipi	tation	(incl	nes)										
	Me	ans/	P	recip	itatio	on Total	S			М	ean N	Numbo Pays (3		Proba	ability th		nonthly/	annual j	precipita ated an		l be equ		· less tha	ın the
		ians(1)				Extremes	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	.64	.66	.79	1969	19	1.20	1996	.01	1992	6.6	2.2	.1	.0	.08	.13	.21	.30	.40	.50	.62	.78	.98	1.32	1.65
Feb	.62	.54	.79	1986	18	2.36	1986	.00+	1991	5.0	2.4	.1	.0	.00	.07	.18	.28	.38	.49	.62	.77	.98	1.32	1.65
Mar	.69	.72	.89	1991	4	2.03	1995	.00	1994	6.3	2.4	.1	.0	.06	.14	.25	.35	.46	.57	.70	.86	1.07	1.41	1.73
Apr	.79	.56	1.51	1981	20	1.99	1975	.00	1977	6.2	2.5	.3	@	.05	.12	.25	.36	.49	.62	.78	.98	1.24	1.68	2.10
May	1.24	1.16	.95	1987	16	2.34	1995	.31	1992	8.6	4.2	.3	.0	.39	.51	.68	.83	.98	1.12	1.29	1.48	1.73	2.11	2.47
Jun	1.08	.88	1.64	1969	10	4.64	1995	.01	1994	6.2	3.1	.4	@	.08	.15	.29	.44	.61	.80	1.03	1.31	1.72	2.39	3.06
Jul	.66	.47	1.25	1979	23	2.29	1985	.00	1999	4.2	1.7	.4	@	.01	.05	.13	.22	.33	.45	.60	.80	1.07	1.53	1.99
Aug	.44	.38	.80	1960	22	1.13	1997	.02	1985	3.8	1.3	.2	.0	.03	.05	.11	.17	.24	.31	.41	.53	.70	.99	1.27
Sep	.73	.66	1.55	1961	18	2.08	1971	.00+	1987	4.1	2.2	.3	@	.00	.02	.10	.20	.31	.46	.64	.87	1.20	1.78	2.36
Oct	.57	.51	.74	1956	27	1.67	1983	.00	1977	4.2	2.1	.2	.0	.03	.08	.16	.24	.33	.43	.55	.70	.90	1.23	1.56
Nov	.69	.63	.71	1970	29	1.74	1988	.00	1976	5.9	2.5	.1	.0	.07	.15	.26	.36	.46	.57	.70	.85	1.05	1.37	1.67
Dec	.67	.64	1.07	1964	22	1.91	1982	.00	1991	6.0	2.5	.1	.0	.02	.06	.15	.25	.35	.48	.63	.82	1.08	1.52	1.97
Ann	8.82	8.54	1.64	Jun 1969	10	4.64	Jun 1995	.00+	Jul 1999	67.1	29.1	2.6	.0	5.63	6.21	6.98	7.58	8.11	8.63	9.17	9.77	10.51	11.60	12.55

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

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

[#] 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: 1954-2001

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

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Climate Division: ID 9 NWS Call Sign: Elevation: 4,938 Feet Lat: 43°32N Lon: 112°57W

										Snov	w (incl	hes)											
						Sno	ow To	tals									Mea	n Nu	mber	of Day	VS (1)		
	Mean	s/Medi	ians (1)	1					Extre	mes (2)							ow Fa				Snow : = Thre	_	
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	5.8	5.6	5	4	5.0	1972	23	11.4	1996	25	1993	22	20	1993	4.9	2.4	.5	.1	.0	23.6	17.6	12.6	4.2
Feb	4.8	2.9	5	4	7.2	1971	19	16.1	1998	30	1993	28	25	1993	3.4	1.9	.5	.2	.0	16.0	11.9	8.9	2.9
Mar	2.4	1.8	3	#	8.6	1973	22	10.2	1973	30	1993	5	20	1985	2.2	1.0	.2	.1	.0	5.8	3.7	3.5	2.7
Apr	.9	.2	#	#	4.5	1976	27	6.0	1976	12	1985	1	1	1985	1.0	.4	@	.0	.0	.5	.1	.1	@
May	.5	.0	#	0	4.0	1975	20	7.0	1979	4	1979	29	#+	1999	.3	.2	.1	.0	.0	.1	@	.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	.2	1971	30	.2	1971	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.6	.0	#	0	4.5	1971	1	7.2	1971	2+	1996	25	#+	1997	.6	.2	@	.0	.0	.5	.0	.0	.0
Nov	4.1	4.4	1	#	6.5	1981	24	10.8	1988	9	1985	30	4	1985	3.2	1.7	.5	.1	.0	5.7	2.9	.7	.0
Dec	6.0	5.4	4	3	8.0	1992	30	22.3	1971	18	1992	31	12	1985	4.8	2.5	.7	.1	.0	17.9	14.0	7.0	1.9
Ann	25.1	20.3	N/A	N/A	8.6	Mar 1973	22	22.3	Dec 1971	30+	Mar 1993	5	25	Feb 1993	20.4	10.3	2.5	.6	.0	70.1	50.2	32.8	11.7

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

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

[@] 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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				Freez	ze Data								
			Spri	ng Freeze D	ates (Month/	Day)							
Property Property													
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90				
36	7/17	7/11	7/07	7/03	6/30	6/27	6/23	6/19	6/13				
32	7/06	6/28	6/23	6/19	6/15	6/11	6/06	6/01	5/25				
28	6/21	6/12	6/06	6/01	5/28	5/23	5/18	5/12	5/04				
24	5/30	5/23	5/19	5/15	5/11	5/07	5/03	4/29	4/22				
20	5/12	5/07	5/04	5/01	4/28	4/25	4/22	4/19	4/14				
16	5/04	4/26	4/21	4/16	4/12	4/07	4/03	3/28	3/21				
			Fal	l 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	8/11	8/17	8/20	8/24	8/27	8/30	9/02	9/06	9/12				
32	8/23	8/29	9/01	9/04	9/07	9/10	9/14	9/17	9/23				
28	8/31	9/06	9/09	9/12	9/15	9/18	9/22	9/25	10/01				
24	9/11	9/17	9/20	9/24	9/27	9/30	10/03	10/07	10/12				
20	9/21	9/26	9/30	10/03	10/06	10/09	10/12	10/16	10/21				
16	9/29	10/05	10/09	10/13	10/16	10/19	10/23	10/27	11/01				
			•	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	81	73	67	62	57	53	47	41	33				
32	108	100	94	89	84	79	74	68	60				
28	138	129	122	116	110	104	98	91	82				
24	163	155	148	143	138	133	128	122	113				
20	184	176	170	165	160	156	151	145	137				
16	216	206	198	192	186	180	174	167	157				

^{*} 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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Lon: 112°57W

Station: IDAHO FALLS 46 W, ID

Climate Division: ID 9

Elevation: 4,938 Feet Lat: 43°32N

				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	1513	1201	999	677	429	193	57	64	294	670	1091	1485	8673
60	1358	1061	844	527	282	102	17	18	176	515	941	1330	7171
57	1265	977	751	439	204	62	7	6	119	423	851	1237	6341
55	1203	921	690	383	158	42	3	3	88	363	791	1175	5820
50	1048	783	547	250	70	12	0	0	34	225	641	1020	4630
32	517	341	148	14	0	0	0	0	0	6	187	487	1700

Base						Coolin	g Degree I	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	27	63	172	326	596	841	1103	1060	710	359	86	25	5368
55	0	0	1	6	41	193	393	350	108	4	0	0	1096
57	0	0	0	1	25	153	334	291	79	2	0	0	885
60	0	0	0	0	10	103	252	210	46	0	0	0	621
65	0	0	0	0	1	43	137	101	14	0	0	0	296
70	0	0	0	0	0	14	59	33	3	0	0	0	109

										Gro	wing]	Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (M	(Ionthly)								Growi	ng Degre	ee Units (Accumu	lated Mo	nthly)			
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec													Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0	0	21	138	362	614	870	827	490	180	10	0	0	0	21	159	521	1135	2005	2832	3322	3502	3512	3512
45												0	0	0	0	64	294	758	1473	2145	2493	2582	2583	2583
50												0	0	0	0	23	144	463	1023	1540	1760	1791	1791	1791
55	0	0	0	5	51	197	408	367	116	7	0	0	0	0	0	5	56	253	661	1028	1144	1151	1151	1151
60	0	0	0	0	13	97	257	220	40	0	0	0	0	0	0	0	13	110	367	587	627	627	627	627
Base	Growing Degree Units for Corn (Monthly)														Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)		
50/86	60/86 0 3 33 131 269 408 557 539 374 194 20 (0	3	36	167	436	844	1401	1940	2314	2508	2528	2528

(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

NWS Call Sign:

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