U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: COEUR D'ALENE, ID **COOP ID: 101956**

Climate Division: ID 1 **NWS Call Sign:** **Elevation: 2,133 Feet** **Lat: 47˚41N** **Lon: 116˚48W**

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	34.7	22.1	28.4	60	1918	1	35.4	1994	-30	1950	30	14.8	1979	1135	0	.0	.0	.5	8.6	26.4	1.3
Feb	41.0	25.0	33.0	62+	1981	24	39.6	1991	-29	1933	9	21.5	1989	895	0	.0	.0	5.1	3.1	21.9	.9
Mar	49.3	29.8	39.6	73	1978	30	44.4	1992	-13	1955	4	34.5	1976	789	0	.0	.0	15.6	.3	20.2	@
Apr	57.8	35.4	46.6	94	1977	25	51.3	1987	5	1936	1	41.4	1975	552	0	.0	.1	26.1	.0	11.2	.0
May	66.6	42.8	54.7	98+	1986	31	59.6	1993	21+	1954	1	50.6	1984	324	4	.0	.5	30.4	.0	1.4	.0
Jun	73.7	49.6	61.7	102	1973	23	67.3	1986	28	1946	11	56.8	1981	143	43	.1	1.8	30.0	.0	.0	.0
Jul	82.6	54.8	68.7	108	1939	28	75.2	1985	36+	1971	7	62.1	1993	46	160	.8	8.6	31.0	.0	.0	.0
Aug	83.7	54.7	69.2	109	1961	4	75.4	1986	32+	1910	25	64.3	1980	41	171	.7	9.5	31.0	.0	.0	.0
Sep	73.9	46.6	60.3	102	1967	1	66.1	1998	17	1926	24	54.3	1985	191	48	.0	1.4	29.9	.0	.7	.0
Oct	59.9	37.9	48.9	87+	1943	8	55.5	1988	2	1935	31	45.5	1984	499	0	.0	.0	27.1	.0	8.9	.0
Nov	43.1	30.3	36.7	71	1975	5	42.3	1999	-13	1896	27	25.9	1985	849	0	.0	.0	7.4	1.7	17.4	.1
Dec	35.8	24.8	30.3	60+	1933	22	35.1	1979	-26	1968	30	21.3	1983	1076	0	.0	.0	.9	8.3	25.2	.5
Ann	58.5	37.8	48.2	109	Aug 1961	4	75.4	Aug 1986	-30	Jan 1950	30	14.8	Jan 1979	6540	426	1.6	21.9	235.0	22.0	133.3	2.8

\+ 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/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1895-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.28	2.85	3.50	1998	4	8.70	1998	.39	1985
Feb	2.47	2.19	1.94	1982	15	5.77	1999	.65	1977
Mar	2.34	2.16	1.20	1900	6	4.72	1983	.57	1992
Apr	1.89	1.88	2.10	1982	12	3.53	1982	.23+	1998
May	2.25	2.05	2.15	1925	21	4.75	1980	.64	1992
Jun	2.06	1.89	1.81	1964	8	4.62	1971	.48	1982
Jul	1.02	.81	1.32	1948	28	3.22	1983	.00+	1985
Aug	1.16	.93	1.57	1999	7	3.32	1978	.01	2000
Sep	1.12	1.19	1.96	1940	5	2.56	1985	.00+	1976
Oct	1.67	1.18	1.47	1927	4	5.01	1996	.04	1987
Nov	3.35	2.99	1.54	1942	23	8.76	1973	.89	1976
Dec	3.46	3.31	1.87	1933	18	6.73	1977	.78	1985
Ann	26.07	26.04	3.50	Jan 1998	4	8.76	Nov 1973	.00+	Jul 1985

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	14.6	8.6	1.7	.3
Feb	12.5	6.8	1.0	.2
Mar	13.4	7.1	.4	@
Apr	11.8	5.6	.6	.1
May	13.5	7.0	.9	.1
Jun	10.4	5.4	.8	.1
Jul	6.8	3.3	.4	.1
Aug	5.9	3.0	.7	.1
Sep	6.9	3.6	.4	.0
Oct	9.9	5.3	.7	@
Nov	15.2	9.3	1.8	.2
Dec	14.8	9.1	1.4	.2
Ann	135.7	74.1	10.8	1.4

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	1.05	1.36	1.82	2.21	2.59	2.98	3.41	3.92	4.57	5.58	6.51
Feb	.83	1.07	1.41	1.70	1.97	2.26	2.57	2.94	3.41	4.13	4.80
Mar	.92	1.14	1.45	1.70	1.94	2.18	2.45	2.76	3.14	3.74	4.28
Apr	.53	.71	.98	1.22	1.45	1.69	1.96	2.28	2.69	3.33	3.93
May	.86	1.07	1.37	1.62	1.86	2.10	2.36	2.66	3.05	3.64	4.17
Jun	.60	.79	1.09	1.34	1.59	1.85	2.14	2.47	2.91	3.60	4.24
Jul	.00	.12	.31	.47	.64	.82	1.02	1.27	1.60	2.15	2.68
Aug	.08	.15	.29	.45	.63	.83	1.08	1.40	1.84	2.59	3.33
Sep	.00	.11	.30	.48	.66	.87	1.10	1.39	1.79	2.44	3.07
Oct	.14	.26	.48	.71	.97	1.26	1.60	2.04	2.64	3.64	4.63
Nov	1.13	1.44	1.91	2.30	2.68	3.07	3.50	4.00	4.64	5.63	6.55
Dec	1.13	1.46	1.95	2.36	2.75	3.16	3.61	4.14	4.81	5.86	6.82
Ann	19.20	20.55	22.26	23.56	24.71	25.82	26.95	28.21	29.73	31.92	33.81

\+ 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: 1895-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	15.7	15.2	6	3
Feb	7.4	6.5	3	1
Mar	2.2	1.9	1	#
Apr	.3	.0	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.2	.0	0	0
Nov	6.0	3.9	1	#
Dec	14.2	14.6	3	2
Ann	46.0	42.1	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	14.2	1982	4	32.9	1975	24+	1985	1	18	1985
Feb	6.9	1975	7	24.4	1975	26+	1985	11	19	1985
Mar	3.8	1977	15	6.8	1976	14	1985	3	7	1985
Apr	2.7	1975	5	2.7	1975	4	1982	4	#	1982
May	#	1975	24	#	1975	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	3.0	1971	31	3.0	1971	0	0	0	0	0
Nov	9.0	1982	22	31.0	1973	15	1973	25	4	1973
Dec	10.5	1977	6	39.0	1977	25	1984	31	10	1971
Ann	14.2	Jan 1982	4	39.0	Dec 1977	26+	Feb 1985	11	19	Feb 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.7	4.5	1.8	.8	.2
Feb	3.8	2.5	.6	.2	.0
Mar	1.7	.9	.1	.0	.0
Apr	.1	.1	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.1	.1	.0	.0
Nov	2.7	1.9	.9	.3	.0
Dec	6.8	4.6	1.8	.5	.1
Ann	21.9	14.6	5.3	1.8	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	18.6	12.0	10.1	5.3
Feb	9.4	5.7	3.6	1.1
Mar	1.2	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	4.3	2.5	1.5	.2
Dec	11.0	8.6	6.2	.5
Ann	44.5	28.8	21.4	7.1

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

(1) Derived from Snow Climatology and 1971-2000 daily data

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

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

Complete documentation available from:
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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	6/09	6/03	5/30	5/26	5/23	5/20	5/16	5/12	5/06
32	5/22	5/17	5/13	5/09	5/06	5/03	4/30	4/26	4/21
28	5/05	4/28	4/24	4/20	4/16	4/13	4/09	4/04	3/29
24	4/09	4/03	3/29	3/25	3/21	3/18	3/14	3/09	3/03
20	3/27	3/19	3/12	3/07	3/02	2/25	2/20	2/14	2/05
16	3/20	3/07	2/26	2/18	2/10	2/02	1/25	1/15	12/30

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	9/10	9/14	9/17	9/20	9/22	9/25	9/27	9/30	10/04
32	9/23	9/27	9/30	10/03	10/05	10/08	10/10	10/13	10/18
28	9/29	10/07	10/12	10/16	10/21	10/25	10/30	11/04	11/11
24	10/16	10/24	10/30	11/05	11/10	11/14	11/20	11/26	12/04
20	10/30	11/08	11/14	11/20	11/25	11/30	12/06	12/12	12/21
16	11/07	11/17	11/24	12/01	12/07	12/13	12/19	12/27	1/09

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	144	136	131	126	121	117	112	106	99
32	173	166	160	156	151	147	142	136	129
28	215	205	198	192	187	181	175	168	159
24	262	252	245	238	232	226	220	213	202
20	295	284	276	270	265	259	253	246	237
16	>365	331	317	307	298	289	280	270	256

***** 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	1135	895	789	552	324	143	46	41	191	499	849	1076	6540
60	980	755	634	403	188	62	13	12	100	347	699	921	5114
57	887	671	541	316	123	30	4	4	61	259	609	828	4333
55	825	615	479	260	87	17	1	2	41	206	549	766	3848
50	670	475	326	140	28	3	0	0	12	96	407	611	2768
32	207	98	13	0	0	0	0	0	0	0	59	148	525

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	95	127	247	438	703	890	1138	1153	847	524	200	95	6457
55	0	0	0	8	78	217	426	442	198	17	0	0	1386
57	0	0	0	4	51	170	367	382	158	9	0	0	1141
60	0	0	0	1	23	112	282	297	108	3	0	0	826
65	0	0	0	0	4	43	160	171	48	0	0	0	426
70	0	0	0	0	0	11	75	83	16	0	0	0	185

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	0	17	70	227	468	656	890	903	595	269	50	3	0	17	87	314	782	1438	2328	3231	3826	4095	4145	4148
45	0	0	18	114	314	506	735	748	446	143	13	0	0	0	18	132	446	952	1687	2435	2881	3024	3037	3037
50	0	0	0	48	181	360	580	593	302	57	0	0	0	0	0	48	229	589	1169	1762	2064	2121	2121	2121
55	0	0	0	12	84	215	425	438	178	13	0	0	0	0	0	12	96	311	736	1174	1352	1365	1365	1365
60	0	0	0	1	35	107	280	290	83	1	0	0	0	0	0	1	36	143	423	713	796	797	797	797
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	11	54	152	282	397	552	562	370	169	16	0	0	11	65	217	499	896	1448	2010	2380	2549	2565	2565

(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.
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

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/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