

Climatography of the United States

No. 20

1971-2000

Station: ARCO, ID

COOP ID: 100375

Climate Division: ID 9

NWS Call Sign:

Elevation: 5,325 Feet Lat: 43° 38N

Lon: 113° 18W

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	29.5	4.8	17.2	52	1962	7	23.9	1998	-35+	1985	31	9.5	1985	1484	0	.0	.0	.0	19.6	30.9	10.4
Feb	35.5	9.6	22.6	59	1991	20	33.1	1992	-31	1996	3	7.8	1985	1189	0	.0	.0	.9	9.6	28.0	6.4
Mar	45.7	20.7	33.2	71	1966	31	41.4	1992	-19+	1960	2	22.1	1985	987	0	.0	.0	9.4	1.9	29.8	1.0
Apr	58.1	28.8	43.5	86+	1992	29	50.4	1987	5	1978	22	35.3	1975	648	0	.0	.0	23.3	.0	21.4	.0
May	67.0	36.6	51.8	90+	1986	31	58.6	1992	11	1972	1	47.9	1977	409	1	.0	@	30.2	.0	8.8	.0
Jun	76.6	43.4	60.0	97+	1988	24	65.7	1988	21	1954	5	55.4	1993	185	35	.0	1.9	29.9	.0	1.3	.0
Jul	84.6	48.4	66.5	102+	1960	21	72.4	1998	29	1986	5	58.0	1993	72	118	@	8.2	31.0	.0	.2	.0
Aug	83.2	47.0	65.1	100+	1961	4	70.0	1971	25	1992	25	60.2	1993	89	91	.0	5.9	31.0	.0	.6	.0
Sep	73.6	38.0	55.8	96	1950	5	62.9	1998	15	1985	29	49.3	1985	294	17	.0	.5	29.8	.0	6.9	.0
Oct	61.1	29.0	45.1	83+	1988	1	52.3	1988	8+	1984	30	40.2	1984	619	0	.0	.0	26.8	.1	20.8	.0
Nov	41.9	17.6	29.8	69	1953	3	37.8	1999	-21	1977	21	21.6	1994	1058	0	.0	.0	6.9	5.1	28.9	1.8
Dec	30.4	6.2	18.3	59	1976	17	26.7	1995	-45	1983	23	8.6	1983	1448	0	.0	.0	.3	16.7	30.8	7.5
Ann	57.3	27.5	42.4	102+	Jul 1960	21	72.4	Jul 1998	-45	Dec 1983	23	7.8	Feb 1985	8482	262	@	16.5	219.5	53.0	208.4	27.1

+ 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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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

005-A

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: ARCO, ID

COOP ID: 100375

Climate Division: ID 9

NWS Call Sign:

Elevation: 5,325 Feet Lat: 43°38N

Lon: 113°18W

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	.82	.79	1.05	1968	10	2.42	1996	.00+	1991	6.9	3.0	.3	.0	.00	.00	.34	.48	.61	.74	.88	1.05	1.25	1.58	1.89
Feb	1.05	.84	2.44	1985	8	3.55	1986	.02	1997	5.6	2.9	.3	.1	.06	.12	.24	.38	.54	.73	.97	1.27	1.68	2.40	3.11
Mar	.86	.67	1.20	1985	27	2.58	1982	.00	1993	5.5	2.5	.3	@	.03	.09	.21	.33	.47	.62	.81	1.05	1.38	1.94	2.48
Apr	.75	.65	1.64	1981	20	2.40	1975	.00+	1992	5.9	2.5	.2	.1	.00	.09	.23	.35	.47	.60	.76	.94	1.19	1.59	1.99
May	1.32	1.19	1.89	1962	15	3.27	1980	.19	1973	8.5	4.1	.5	@	.25	.37	.57	.74	.93	1.12	1.34	1.61	1.96	2.53	3.07
Jun	.90	.71	1.25	1993	6	3.07	1984	.00+	1996	6.8	3.0	.3	.1	.00	.00	.20	.35	.51	.68	.88	1.14	1.47	2.03	2.58
Jul	.83	.50	1.40	1997	2	3.39	1985	.00	1994	4.4	1.9	.5	.1	.01	.04	.13	.24	.37	.52	.72	.99	1.36	2.02	2.68
Aug	.78	.49	1.57	1980	19	2.42	1984	.00+	1996	4.9	2.1	.3	.2	.00	.02	.11	.21	.34	.49	.68	.93	1.29	1.90	2.52
Sep	.70	.55	1.31	1968	20	2.23	1985	.00+	1999	4.0	1.7	.3	.1	.00	.00	.06	.17	.29	.44	.62	.85	1.19	1.75	2.32
Oct	.63	.57	.93	1964	30	1.58	1982	.00+	1988	4.6	2.0	.1	.0	.00	.00	.11	.23	.34	.47	.62	.80	1.05	1.44	1.83
Nov	.80	.69	.93	1970	30	2.59	1983	.00+	1999	6.5	2.8	.1	.0	.00	.00	.23	.37	.51	.65	.82	1.02	1.28	1.70	2.11
Dec	.81	.80	1.26	1982	21	1.77	1974	.02	1976	5.7	2.9	.3	@	.08	.14	.25	.36	.49	.62	.79	.99	1.27	1.74	2.19
Ann	10.25	9.20	2.44	Feb 1985	8	3.55	Feb 1986	.00+	Nov 1999	69.3	31.4	3.5	.7	5.97	6.74	7.76	8.55	9.27	9.98	10.72	11.56	12.59	14.12	15.47

+ 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: 1948-2001

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

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

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: ARCO, ID

COOP ID: 100375

Climate Division: ID 9

NWS Call Sign:

Elevation: 5,325 Feet

Lat: 43° 38N

Lon: 113° 18W

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	6.2	6.0	4	#	8.0	1980	12	18.0	1978	22	1971	12	15	1971	3.2	2.0	.8	.3	.0	-9.9	-9.9	-9.9	-9.9
Feb	4.4	2.0	2	#	8.0	1978	9	21.0	1975	14	1971	3	9	1971	2.0	1.5	.5	.1	.0	-9.9	-9.9	-9.9	-9.9
Mar	2.6	.3	1	0	12.0	1985	27	12.0	1985	19	1973	1	6	1973	1.1	.6	.3	.2	.0	-9.9	-9.9	-9.9	-9.9
Apr	.4	.0	#	0	5.0	1973	1	5.0	1973	10	1973	1	10	1973	.3	.1	.1	.1	.0	-9.9	-9.9	-9.9	-9.9
May	.3	.0	0	0	6.5	1979	9	6.5	1979	0	0	0	0	0	.1	.1	@	@	.0	.0	.0	.0	.0
Jun	#	.0	0	0	#	1973	17	#	1973	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	#	1974	11	#	1974	.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	.3	1971	30	.3	1971	#	1971	30	#	1971	@	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	5.5	1991	27	5.5	1991	#+	1996	29	#+	1996	.2	.1	.1	.1	.0	.0	.0	.0	.0
Nov	4.1	4.0	#	0	5.0	1977	22	11.0	1977	6	1973	5	1	1994	1.6	1.2	.5	.1	.0	-9.9	-9.9	-9.9	-9.9
Dec	9.7	8.7	1	#	8.0	1985	8	22.5	1992	14	1982	23	6	1982	3.1	2.3	1.1	.3	.0	-9.9	-9.9	-9.9	-9.9
Ann	28.1	21.0	N/A	N/A	12.0	Mar 1985	27	22.5	Dec 1992	22	Jan 1971	12	15	Jan 1971	11.6	7.9	3.4	1.2	.0	-9.9	-9.9	-9.9	-9.9

+ 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

Complete documentation available from:

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

**Climatography
of the United States
No. 20
1971-2000**

Station: ARCO, ID

COOP ID: 100375

Climate Division: ID 9

NWS Call Sign:

Elevation: 5,325 Feet

Lat: 43°38N

Lon: 113°18W

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	7/16	7/09	7/05	7/01	6/27	6/24	6/20	6/15	6/09
32	6/30	6/24	6/19	6/15	6/11	6/07	6/03	5/29	5/23
28	6/07	5/31	5/27	5/23	5/19	5/15	5/11	5/07	4/30
24	5/23	5/17	5/13	5/10	5/07	5/03	4/30	4/26	4/20
20	5/09	5/03	4/29	4/25	4/22	4/19	4/15	4/11	4/06
16	4/25	4/18	4/13	4/09	4/05	3/31	3/27	3/22	3/15
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	8/12	8/18	8/23	8/26	8/30	9/03	9/06	9/11	9/17
32	8/21	8/27	8/31	9/03	9/07	9/10	9/13	9/18	9/23
28	9/01	9/07	9/11	9/14	9/18	9/21	9/25	9/29	10/05
24	9/14	9/20	9/24	9/28	10/02	10/05	10/09	10/13	10/19
20	9/26	10/02	10/06	10/10	10/13	10/17	10/21	10/25	10/31
16	10/10	10/16	10/20	10/24	10/27	10/31	11/03	11/08	11/14
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	89	80	73	68	63	58	53	46	37
32	111	103	97	92	87	82	77	71	63
28	147	138	131	126	121	116	111	104	95
24	174	165	158	152	147	142	136	130	121
20	200	191	184	179	174	168	163	157	148
16	234	224	217	211	205	199	193	186	175

* 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:

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

**Climatography
of the United States
No. 20
1971-2000**

Station: ARCO, ID

COOP ID: 100375

Climate Division: ID 9

NWS Call Sign:

Elevation: 5,325 Feet Lat: 43° 38N Lon: 113° 18W

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	1484	1189	987	648	409	185	72	89	294	619	1058	1448	8482
60	1329	1049	832	498	263	92	22	31	179	465	908	1293	6961
57	1236	965	739	415	184	52	10	14	124	375	818	1200	6132
55	1174	909	678	359	140	33	5	7	93	317	758	1138	5611
50	1019	769	534	234	57	8	0	1	37	189	608	983	4439
32	477	319	137	15	0	0	0	0	0	4	161	455	1568

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	16	55	173	357	614	840	1069	1026	713	408	94	30	5395
55	0	0	2	11	41	183	361	320	116	9	0	0	1043
57	0	0	0	7	24	143	304	265	86	4	0	0	833
60	0	0	0	0	9	92	223	189	52	1	0	0	566
65	0	0	0	0	1	35	118	91	17	0	0	0	262
70	0	0	0	0	0	9	46	30	4	0	0	0	89

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	1	16	149	380	612	841	796	492	200	7	0	0	1	17	166	546	1158	1999	2795	3287	3487	3494	3494
45	0	0	0	72	239	462	686	641	348	100	0	0	0	0	0	72	311	773	1459	2100	2448	2548	2548	2548
50	0	0	0	23	128	319	531	486	221	35	0	0	0	0	0	23	151	470	1001	1487	1708	1743	1743	1743
55	0	0	0	5	54	189	377	333	109	11	0	0	0	0	0	5	59	248	625	958	1067	1078	1078	1078
60	0	0	0	0	17	89	232	194	41	0	0	0	0	0	0	0	17	106	338	532	573	573	573	573
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	1	29	138	275	412	544	532	370	191	21	0	0	1	30	168	443	855	1399	1931	2301	2492	2513	2513

(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.

- 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