

Climatology of the United States

No. 20

1971-2000

Station: ANDERSON DAM, ID

COOP ID: 100282

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,882 Feet Lat: 43° 22N

Lon: 115° 27W

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	18.1	27.0	55	1971	30	33.8	1981	-21+	1962	22	16.6	1979	1178	0	.0	.0	.5	9.5	29.5	2.4
Feb	40.3	19.7	30.0	64	1992	28	38.1	1991	-20	1989	6	20.0	1985	980	0	.0	.0	3.1	4.0	26.8	1.5
Mar	48.6	26.4	37.5	75	1986	31	45.9	1992	-5	1993	1	28.8	1976	853	0	.0	.0	13.8	.3	26.2	.1
Apr	59.6	32.8	46.2	88+	1992	30	53.5	1987	14	1997	2	38.4	1975	563	0	.0	.0	25.7	.0	13.4	.0
May	69.4	40.3	54.9	96	1954	19	61.1	1992	22	1953	3	49.7	1977	325	11	.0	.5	30.3	.0	2.5	.0
Jun	79.4	46.9	63.2	104	1954	23	69.5	1986	32	1973	18	57.9	1993	127	72	.5	5.8	30.0	.0	@	.0
Jul	89.1	53.4	71.3	111	2000	13	76.1	1985	36	1981	8	64.0	1993	24	218	2.4	17.6	31.0	.0	.0	.0
Aug	88.5	53.0	70.8	106+	2000	10	74.4	1986	38+	1999	31	65.0	1976	27	206	1.4	16.5	31.0	.0	.0	.0
Sep	77.7	45.4	61.6	108	1950	3	68.4	1990	26+	1996	24	55.5	1971	166	61	.1	4.0	29.9	.0	.9	.0
Oct	64.4	36.7	50.6	92	1992	1	59.6	1988	13	1996	21	45.8	1981	450	3	.0	.1	28.4	.0	8.0	.0
Nov	45.6	27.1	36.4	76	1949	5	43.1	1999	-2+	1985	25	27.7	1985	860	0	.0	.0	10.4	1.7	22.8	.2
Dec	35.6	18.9	27.3	59+	1964	23	32.1	1989	-19	1990	26	16.5	1985	1171	0	.0	.0	.6	8.4	29.2	1.7
Ann	61.2	34.9	48.1	111	Jul 2000	13	76.1	Jul 1985	-21+	Jan 1962	22	16.5	Dec 1985	6724	571	4.4	44.5	234.7	23.9	159.3	5.9

+ 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: 1948-2000

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

003-A

Climatology 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: ANDERSON DAM, ID

COOP ID: 100282

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,882 Feet Lat: 43°22N

Lon: 115°27W

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	3.23	3.26	2.07	1970	27	6.33	1971	.06	1985	10.0	6.1	1.8	.7	.46	.72	1.19	1.63	2.10	2.62	3.21	3.94	4.93	6.54	8.08
Feb	2.27	2.04	2.03	1960	8	5.60	1975	.04	1991	8.7	5.5	1.5	.3	.44	.64	.97	1.28	1.59	1.93	2.31	2.77	3.37	4.35	5.28
Mar	2.09	1.84	1.57	1959	30	5.24	1975	.00	1994	8.7	5.1	1.1	.3	.23	.48	.83	1.13	1.44	1.77	2.14	2.58	3.17	4.13	5.03
Apr	1.40	1.36	1.38	1951	28	2.61	1990	.08	1977	7.4	3.4	.4	@	.36	.50	.70	.88	1.05	1.24	1.45	1.69	2.01	2.52	2.99
May	1.48	1.24	1.26	1995	2	5.60	1998	.01	1992	6.9	3.5	.4	@	.14	.24	.44	.65	.87	1.12	1.43	1.81	2.33	3.19	4.04
Jun	.88	.67	1.20	1970	29	3.48	1993	.16	1985	5.6	2.5	.2	@	.14	.21	.34	.46	.59	.72	.88	1.08	1.34	1.76	2.16
Jul	.53	.34	1.15	1983	10	2.84	1983	.00+	1999	3.0	1.4	.2	@	.00	.00	.08	.17	.26	.36	.49	.65	.87	1.25	1.62
Aug	.38	.16	1.69	1965	21	1.80	1976	.00+	2000	2.8	1.2	.1	.0	.00	.00	.00	.03	.08	.16	.27	.42	.64	1.05	1.48
Sep	.87	.66	1.60	1950	8	3.61	1985	.00+	1999	4.5	2.0	.3	@	.00	.00	.16	.31	.46	.63	.84	1.09	1.44	2.02	2.60
Oct	1.20	1.01	1.83	1985	23	4.00	1975	.00	1988	5.9	3.0	.4	.2	.02	.09	.23	.40	.59	.81	1.09	1.45	1.95	2.81	3.67
Nov	2.86	2.30	1.73	1984	13	7.91	1988	.00	1976	9.3	5.7	1.3	.3	.35	.71	1.19	1.60	2.01	2.44	2.93	3.52	4.30	5.53	6.70
Dec	3.17	2.87	2.18	1964	22	9.77	1996	.01	1976	9.9	6.6	1.8	.4	.22	.42	.82	1.25	1.74	2.30	2.98	3.85	5.05	7.08	9.10
Ann	20.36	19.81	2.18	Dec 1964	22	9.77	Dec 1996	.00+	Aug 2000	82.7	46.0	9.5	2.2	12.47	13.91	15.80	17.27	18.60	19.90	21.26	22.78	24.64	27.40	29.82

+ 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: 1948-2000

(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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Station: ANDERSON DAM, ID

COOP ID: 100282

Climate Division: ID 4

NWS Call Sign:

Elevation: 3,882 Feet

Lat: 43°22N

Lon: 115°27W

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	18.5	17.3	10	8	18.0	1996	31	43.0	1982	40	1993	21	33	1993	4.7	4.2	1.8	1.0	.2	24.2	19.9	17.4	12.8
Feb	11.8	12.5	9	7	14.5	2000	14	28.0	1975	36	1993	1	29	1993	3.0	2.6	1.2	.6	.2	21.0	18.5	16.6	9.1
Mar	4.0	.5	4	#	18.0	1975	18	29.0	1975	30	1993	1	18	1999	1.5	1.1	.4	.2	.1	6.9	5.5	4.9	3.0
Apr	.1	.0	#	0	2.0	1984	12	2.0	1984	10	1976	1	1	1985	.1	.1	.0	.0	.0	.7	.2	.2	@
May	#	.0	#	0	#	1978	4	#+	1978	#	1999	4	#	1999	.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	.2	.0	#	0	4.0	1975	25	5.0	1975	4	1975	25	#+	1991	.1	.1	@	.0	.0	.1	@	.0	.0
Nov	6.4	3.0	1	#	10.0	1971	26	25.0	1971	20	1975	30	3	1994	1.4	1.2	.6	.3	.1	2.7	1.6	1.2	.4
Dec	15.1	11.3	6	3	11.0	1973	27	46.5	1971	28	1971	15	18	1992	4.1	3.8	1.7	1.0	.1	13.5	9.8	6.0	3.2
Ann	56.1	44.6	N/A	N/A	18.0+	Jan 1996	31	46.5	Dec 1971	40	Jan 1993	21	33	Jan 1993	14.9	13.1	5.7	3.1	.7	69.1	55.5	46.3	28.5

+ 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:

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Lat: 43° 22N

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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	6/18	6/12	6/08	6/04	6/01	5/28	5/25	5/20	5/14
32	5/28	5/22	5/18	5/14	5/11	5/07	5/04	4/29	4/23
28	5/08	5/03	4/29	4/25	4/22	4/19	4/16	4/12	4/07
24	4/23	4/17	4/13	4/09	4/06	4/03	3/30	3/26	3/20
20	4/08	3/31	3/26	3/22	3/18	3/13	3/09	3/04	2/24
16	3/28	3/20	3/14	3/09	3/04	2/27	2/22	2/17	2/09
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	9/15	9/18	9/22	9/25	9/27	10/01	10/04	10/09
32	9/17	9/23	9/27	9/30	10/04	10/07	10/11	10/15	10/21
28	10/02	10/08	10/12	10/16	10/19	10/22	10/26	10/30	11/05
24	10/19	10/24	10/28	10/31	11/03	11/06	11/09	11/13	11/18
20	10/30	11/04	11/07	11/10	11/13	11/16	11/19	11/22	11/27
16	11/02	11/09	11/13	11/17	11/21	11/25	11/29	12/04	12/10
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	138	130	124	119	115	110	106	100	92
32	171	162	156	150	145	140	134	128	119
28	205	196	190	184	179	174	168	162	153
24	238	228	222	216	211	205	200	193	184
20	265	256	250	245	240	235	229	223	214
16	289	279	273	267	261	256	250	243	234

* 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	1178	980	853	563	325	127	24	27	166	450	860	1171	6724
60	1023	840	698	420	198	56	5	6	85	306	710	1016	5363
57	930	756	605	338	137	29	1	2	51	230	620	923	4622
55	868	700	545	287	103	18	0	1	34	184	561	861	4162
50	713	560	400	177	42	4	0	0	10	93	420	706	3125
32	222	151	54	6	0	0	0	0	0	1	71	219	724

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	67	95	224	433	708	935	1218	1202	885	576	201	71	6615
55	0	0	2	23	99	263	505	489	229	47	2	0	1659
57	0	0	0	15	70	214	444	429	186	30	0	0	1388
60	0	0	0	7	38	151	354	340	130	14	0	0	1034
65	0	0	0	0	11	72	218	206	61	3	0	0	571
70	0	0	0	0	1	25	114	105	22	0	0	0	267

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	46	224	484	733	993	985	659	347	51	0	0	1	47	271	755	1488	2481	3466	4125	4472	4523	4523
45	0	0	10	120	337	583	838	830	509	214	15	0	0	0	10	130	467	1050	1888	2718	3227	3441	3456	3456
50	0	0	0	51	208	435	683	675	368	111	1	0	0	0	0	51	259	694	1377	2052	2420	2531	2532	2532
55	0	0	0	15	106	293	530	520	236	44	0	0	0	0	0	15	121	414	944	1464	1700	1744	1744	1744
60	0	0	0	3	45	175	380	368	127	13	0	0	0	0	0	3	48	223	603	971	1098	1111	1111	1111
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	5	43	165	315	458	611	613	429	243	36	0	0	5	48	213	528	986	1597	2210	2639	2882	2918	2918

(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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. 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