

Climatology of the United States

No. 20

1971-2000

Station: WARREN, ID

COOP ID: 109560

Climate Division: ID 4

NWS Call Sign:

Elevation: 5,907 Feet Lat: 45° 16N

Lon: 115° 41W

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	34.2	5.9	20.1	54	1981	22	25.3	1998	-44	1979	1	9.6	1979	1393	0	.0	.0	.2	12.5	30.8	9.5
Feb	39.3	8.4	23.9	62	1988	22	30.9	1995	-41	1989	4	14.0	1989	1153	0	.0	.0	2.4	5.9	28.0	6.3
Mar	43.6	13.4	28.5	68	1968	22	34.4	1992	-31	1965	18	21.1	1976	1132	0	.0	.0	7.3	2.3	30.9	2.7
Apr	49.6	19.2	34.4	79	1987	29	40.5	1987	-9	1975	1	27.4	1975	917	0	.0	.0	13.6	.4	29.1	.3
May	58.2	26.1	42.2	84	1986	30	46.9	1992	2	1967	1	38.3	1996	709	0	.0	.0	24.2	.0	24.9	.0
Jun	67.1	31.4	49.3	87	1974	15	53.9	1988	17+	1999	9	45.3	1975	473	0	.0	.0	28.8	.0	14.7	.0
Jul	76.1	34.6	55.4	97	1998	18	60.4	1975	20	2000	5	47.8	1993	306	6	.0	.3	30.9	.0	8.1	.0
Aug	75.8	33.6	54.7	94	1961	4	59.1	1998	16+	1992	26	50.2	1980	325	4	.0	.3	31.0	.0	10.8	.0
Sep	67.1	27.6	47.4	90+	1998	5	53.3	1998	5	1965	17	42.5	1985	530	0	.0	.1	28.2	.0	22.4	.0
Oct	56.0	22.8	39.4	79+	1992	2	45.6	1988	-12	1971	29	33.8	1984	794	0	.0	.0	21.8	.2	29.0	.2
Nov	39.7	15.2	27.5	66	1976	7	33.7	1999	-24	1985	23	18.4	1985	1127	0	.0	.0	4.1	5.8	29.2	2.5
Dec	32.7	7.0	19.9	55	1979	18	26.1	1980	-45	1978	31	11.1	1978	1399	0	.0	.0	.1	14.7	30.9	7.9
Ann	53.3	20.4	36.9	97	Jul 1998	18	60.4	Jul 1975	-45	Dec 1978	31	9.6	Jan 1979	10258	10	.0	.7	192.6	41.8	288.8	29.4

+ 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: 1959-2001

(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: WARREN, ID

COOP ID: 109560

Climate Division: ID 4

NWS Call Sign:

Elevation: 5,907 Feet Lat: 45°16N

Lon: 115°41W

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	2.64	2.27	2.21	1974	15	7.48	1974	.52	1985	9.9	7.0	1.1	.2	.61	.86	1.24	1.59	1.93	2.30	2.71	3.20	3.85	4.87	5.83
Feb	2.03	1.70	1.85	1972	15	4.86	1972	.59	1989	7.3	5.6	.7	.2	.56	.76	1.05	1.30	1.55	1.81	2.10	2.44	2.88	3.58	4.22
Mar	2.42	1.98	1.85	1967	9	5.97	1974	.80	1978	8.3	6.4	1.0	.2	.71	.94	1.28	1.58	1.87	2.17	2.51	2.90	3.41	4.21	4.95
Apr	2.25	2.09	1.31	1996	24	4.33	1993	.43	1977	7.1	6.2	1.1	.1	.72	.94	1.25	1.52	1.78	2.05	2.34	2.68	3.13	3.81	4.45
May	2.49	2.34	1.50	1996	18	5.96	1996	.85	1973	9.2	7.2	1.1	.1	1.01	1.24	1.56	1.83	2.08	2.34	2.61	2.93	3.33	3.94	4.50
Jun	2.48	2.35	1.38	1973	14	5.74	1982	.63	1990	8.3	6.7	1.4	.2	.91	1.14	1.48	1.76	2.03	2.30	2.60	2.94	3.38	4.06	4.68
Jul	1.41	1.25	1.18	1979	21	3.05	1993	.11	1996	4.9	3.3	.9	.1	.25	.37	.58	.77	.97	1.19	1.43	1.72	2.12	2.75	3.36
Aug	1.22	1.07	1.90	1995	16	2.52	1995	.10	1991	4.9	3.4	.7	.1	.19	.30	.47	.64	.82	1.01	1.23	1.49	1.85	2.43	2.98
Sep	1.41	1.33	1.30	1998	9	4.09	1985	.10	1990	5.1	3.8	.7	.1	.10	.20	.38	.57	.79	1.03	1.33	1.71	2.23	3.11	3.98
Oct	1.81	1.79	2.45	1962	11	3.93	1975	.00	1987	6.6	5.1	.9	.1	.27	.51	.81	1.07	1.32	1.58	1.88	2.23	2.69	3.41	4.10
Nov	2.60	2.32	2.16	1980	7	6.46	1973	.54	1987	9.5	7.5	1.1	.1	.74	.99	1.36	1.69	2.00	2.33	2.70	3.12	3.68	4.55	5.37
Dec	2.65	2.60	1.74	1971	23	6.19	1996	.10	1986	9.1	7.0	1.2	.2	.54	.78	1.17	1.52	1.88	2.27	2.70	3.23	3.92	5.03	6.08
Ann	25.41	25.55	2.45	Oct 1962	11	7.48	Jan 1974	.00	Oct 1987	90.2	69.2	11.9	1.7	16.75	18.38	20.49	22.11	23.56	24.97	26.44	28.07	30.06	32.98	35.52

+ 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: 1959-2001

(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: WARREN, ID

COOP ID: 109560

Climate Division: ID 4

NWS Call Sign:

Elevation: 5,907 Feet

Lat: 45° 16N

Lon: 115° 41W

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	28.9	28.3	28	30	21.0	1982	23	67.0	1971	68	1971	12	54	1971	9.2	8.3	3.8	2.1	.2	29.8	29.8	29.8	27.8
Feb	28.3	29.0	34	33	18.5	1975	2	55.5	1975	66	1975	2	59	1971	7.7	6.9	2.7	1.2	.2	27.6	27.6	27.6	27.4
Mar	30.8	32.0	33	30	15.0	1997	2	59.0	1977	72	1971	13	65	1971	8.0	7.5	3.3	1.5	.2	28.6	28.5	28.4	28.1
Apr	17.7	17.3	19	14	10.0	1971	24	33.0	1982	66	1975	7	55	1975	4.8	4.4	1.6	.8	.1	21.4	20.9	20.1	18.7
May	4.8	4.5	3	#	6.5	1975	4	14.5	1984	52	1975	4	27	1975	1.8	1.7	.6	.2	.0	3.3	2.6	2.2	1.2
Jun	.4	.0	#	0	3.0	1973	18	5.0	1973	2+	1999	8	#+	1999	.2	.2	.1	.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	#	1976	26	#+	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.5	.0	#	0	2.0	1978	18	3.0+	1996	2	1996	17	#+	1999	.4	.3	.0	.0	.0	.2	.0	.0	.0
Oct	4.2	3.0	#	#	5.5	1977	30	16.1	1984	9	1981	13	2	1984	1.8	1.5	.6	.1	.0	1.4	.6	.1	.0
Nov	24.3	23.0	4	3	19.0	1973	5	57.0	1973	23+	1994	30	14	1973	7.8	7.2	2.6	1.0	.1	16.6	12.1	9.1	4.3
Dec	30.5	30.5	16	17	13.0	1974	20	53.5	1974	40	1998	29	27	1984	8.9	8.2	3.7	1.5	.4	30.0	29.4	27.9	20.2
Ann	170.4	167.6	N/A	N/A	21.0	Jan 1982	23	67.0	Jan 1971	72	Mar 1971	13	65	Mar 1971	50.6	46.2	19.0	8.4	1.2	158.9	151.5	145.2	127.7

+ 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/normals/usnormals.html

Climatography of the United States

No. 20 1971-2000

Station: WARREN, ID

COOP ID: 109560

Climate Division: ID 4

NWS Call Sign:

Elevation: 5,907 Feet

Lat: 45° 16N

Lon: 115° 41W

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	8/02	7/31	7/30	7/30	7/29	7/28	7/27	7/26	7/25
32	8/01	7/29	7/26	7/24	7/22	7/19	7/17	7/15	7/11
28	7/27	7/20	7/15	7/11	7/08	7/04	6/30	6/25	6/19
24	7/07	6/28	6/22	6/17	6/12	6/07	6/01	5/26	5/18
20	6/10	6/01	5/25	5/20	5/15	5/10	5/04	4/28	4/19
16	5/13	5/08	5/05	5/02	4/29	4/26	4/23	4/19	4/14
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	7/31	7/31	8/01	8/02	8/03	8/04	8/05	8/06	8/07
32	7/29	8/01	8/03	8/05	8/07	8/09	8/12	8/14	8/18
28	8/02	8/08	8/12	8/15	8/19	8/22	8/25	8/29	9/04
24	8/24	8/29	9/02	9/05	9/08	9/11	9/15	9/19	9/24
20	9/02	9/08	9/12	9/16	9/19	9/23	9/27	10/01	10/07
16	9/14	9/21	9/26	9/30	10/05	10/09	10/13	10/18	10/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	11	9	7	6	4	3	2	0	0
32	33	27	23	19	16	13	9	5	0
28	68	59	52	47	41	36	30	23	14
24	118	108	100	94	88	82	76	68	58
20	162	150	141	134	127	120	112	104	92
16	188	178	170	164	158	152	146	139	129

* 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: WARREN, ID

COOP ID: 109560

Climate Division: ID 4

NWS Call Sign:

Elevation: 5,907 Feet Lat: 45° 16N

Lon: 115° 41W

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	1393	1153	1132	917	709	473	306	325	530	794	1127	1399	10258
60	1238	1013	977	767	554	325	173	189	382	639	977	1244	8478
57	1145	929	884	677	461	240	113	125	298	546	887	1151	7456
55	1083	873	822	617	399	188	80	91	245	484	827	1089	6798
50	928	733	667	467	252	84	23	29	132	331	677	934	5257
32	379	254	167	64	5	0	0	0	0	14	196	393	1472

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	9	25	58	137	319	517	723	703	460	243	59	16	3269
55	0	0	0	0	0	15	90	81	15	0	0	0	201
57	0	0	0	0	0	7	61	53	8	0	0	0	129
60	0	0	0	0	0	2	29	24	3	0	0	0	58
65	0	0	0	0	0	0	6	4	0	0	0	0	10
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	0	0	33	144	312	514	490	260	84	3	0	0	0	0	33	177	489	1003	1493	1753	1837	1840	1840
45	0	0	0	6	58	185	360	338	144	28	0	0	0	0	0	6	64	249	609	947	1091	1119	1119	1119
50	0	0	0	0	13	87	220	197	60	2	0	0	0	0	0	0	13	100	320	517	577	579	579	579
55	0	0	0	0	1	25	96	80	11	0	0	0	0	0	0	0	1	26	122	202	213	213	213	213
60	0	0	0	0	0	1	28	15	0	0	0	0	0	0	0	0	0	1	29	44	44	44	44	44
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	4	17	59	152	270	415	413	271	132	12	0	0	4	21	80	232	502	917	1330	1601	1733	1745	1745

(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