

Climatography of the United States

No. 20

1971-2000

Station: GROUSE, ID

COOP ID: 103882

Climate Division: ID 4

NWS Call Sign:

Elevation: 6,137 Feet Lat: 43° 42N

Lon: 113° 36W

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	26.6	-1.8	12.4	50+	1971	30	18.9	1981	-42	1951	29	2.6	1979	1632	0	.0	.0	@	20.0	30.8	15.6
Feb	32.2	2.0	17.1	58	1963	6	27.3	1991	-40	1956	1	6.0	1985	1342	0	.0	.0	.7	11.9	28.1	10.6
Mar	40.5	13.4	27.0	64	1986	29	34.8	1992	-28	1960	1	19.5	1985	1180	0	.0	.0	4.4	2.8	30.6	3.1
Apr	50.4	23.5	37.0	79+	1987	28	42.7	1987	-10	1982	5	28.4	1975	842	0	.0	.0	17.4	.2	26.5	.2
May	60.6	32.2	46.4	86	1969	24	51.2	1992	10+	1972	1	42.1	1991	577	0	.0	.0	28.0	.0	16.8	.0
Jun	69.6	37.3	53.5	88+	1992	24	59.4	1988	18+	1966	5	47.9	1998	352	5	.0	.1	29.7	.0	6.1	.0
Jul	78.7	40.9	59.8	94	1973	10	64.7	1985	21	1981	8	51.9	1993	182	22	.0	.9	31.0	.0	2.1	.0
Aug	77.6	39.7	58.7	95	2000	1	61.7	1971	21+	1992	26	53.4	1980	210	14	.0	.8	31.0	.0	2.8	.0
Sep	68.7	31.8	50.3	91+	1950	2	55.4	1990	9	1984	25	44.2	1971	444	1	.0	.0	29.3	.0	16.4	.0
Oct	56.6	22.3	39.5	79	1987	3	46.2	1988	-11	1971	29	34.5	1984	792	0	.0	.0	24.1	.2	27.6	@
Nov	38.3	11.2	24.8	68	1959	1	33.6	1995	-28	1952	25	15.8	1994	1208	0	.0	.0	4.8	7.3	29.2	4.4
Dec	27.8	.1	14.0	56	1958	3	21.3	1975	-42	1983	23	5.1	1990	1583	0	.0	.0	.1	18.5	30.8	13.4
Ann	52.3	21.1	36.7	95	Aug 2000	1	64.7	Jul 1985	-42+	Dec 1983	23	2.6	Jan 1979	10344	42	.0	1.8	200.5	60.9	247.8	47.3

+ 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: 1948-2001

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

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: GROUSE, ID

COOP ID: 103882

Climate Division: ID 4

NWS Call Sign:

Elevation: 6,137 Feet Lat: 43°42N

Lon: 113°36W

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	1.09	.97	1.80	1969	21	3.04	1993	.00	1991	7.2	3.6	.3	@	.20	.35	.54	.68	.83	.98	1.14	1.33	1.59	1.98	2.35
Feb	1.14	.96	1.00+	1969	24	2.84	1986	.00	1988	6.6	3.9	.5	.0	.19	.34	.54	.69	.85	1.01	1.19	1.40	1.68	2.11	2.52
Mar	1.25	1.00	1.00	1982	18	3.74	1982	.00	1994	6.2	3.7	.7	.1	.10	.24	.44	.62	.81	1.02	1.25	1.54	1.92	2.55	3.15
Apr	.97	.76	1.40	1981	20	3.86	1978	.01	1974	6.4	3.2	.3	.1	.08	.15	.28	.41	.56	.73	.93	1.18	1.52	2.10	2.67
May	1.58	1.31	1.23	1962	15	3.78	1980	.18	1974	9.0	4.7	.5	.0	.27	.41	.64	.86	1.08	1.32	1.59	1.92	2.36	3.08	3.76
Jun	1.55	1.52	1.81	1963	10	3.55	1993	.09	1994	7.2	4.1	.8	.2	.24	.37	.59	.81	1.03	1.27	1.55	1.89	2.34	3.09	3.80
Jul	1.03	.71	1.60	1987	17	4.22	1984	.07	1981	5.5	3.0	.6	@	.08	.15	.29	.43	.58	.76	.98	1.25	1.62	2.25	2.87
Aug	.87	.59	1.35	1968	20	3.17	1983	.00	1981	5.7	2.9	.3	.0	.04	.11	.23	.36	.50	.65	.83	1.06	1.38	1.90	2.42
Sep	.79	.63	1.70	1976	11	2.68	1985	.00+	1999	4.5	2.6	.4	.1	.00	.04	.16	.28	.41	.56	.74	.97	1.29	1.83	2.37
Oct	.78	.74	1.30	2000	11	2.47	2000	.00+	1987	4.5	2.7	.2	.1	.00	.05	.16	.28	.41	.56	.74	.96	1.28	1.81	2.33
Nov	1.04	.78	1.15	1967	19	3.15	1983	.00	1976	7.5	3.6	.4	.0	.06	.17	.33	.48	.64	.82	1.03	1.28	1.62	2.19	2.73
Dec	1.20	1.24	1.90	1955	23	3.09	1996	.00	1989	6.1	3.6	.5	.1	.07	.18	.37	.54	.73	.94	1.18	1.48	1.88	2.55	3.20
Ann	13.29	12.94	1.90	Dec 1955	23	4.22	Jul 1984	.00+	Sep 1999	76.4	41.6	5.5	.7	8.40	9.30	10.47	11.38	12.20	13.00	13.83	14.76	15.90	17.58	19.05

+ 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

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

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Station: GROUSE, ID

COOP ID: 103882

Climate Division: ID 4

NWS Call Sign:

Elevation: 6,137 Feet

Lat: 43°42N

Lon: 113°36W

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	12.9	11.8	12	11	12.0	1982	21	30.0	1978	36	1984	3	27+	1984	5.1	3.7	1.9	1.0	.1	-9.9	-9.9	-9.9	-9.9
Feb	15.7	12.4	15	13	17.0	1985	8	51.0	1975	42	1978	12	34	1983	4.8	4.1	2.3	.9	.2	-9.9	-9.9	-9.9	-9.9
Mar	11.5	10.0	11	10	14.0	1982	18	45.0	1982	38	1983	1	32	1983	3.6	2.9	1.4	.7	.1	-9.9	-9.9	-9.9	-9.9
Apr	4.6	1.5	4	#	13.0	1982	3	26.0	1982	40	1982	3	20	1983	1.5	1.1	.5	.2	@	7.6	7.3	6.8	5.4
May	1.6	.0	#	0	7.0	1978	4	11.5	1975	10	1975	1	2	1975	.7	.6	.2	.1	.0	.9	.6	.4	.1
Jun	.0	.0	#	0	1.0	1995	6	1.0	1995	#+	1998	30	#+	1998	@	@	.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	.3	.0	0	0	6.0	1985	28	6.0	1985	0	0	0	0	0	@	@	@	@	.0	.0	.0	.0	.0
Oct	1.2	.0	#	0	6.5	1991	26	13.0	1991	3	1984	17	#+	1999	.5	.4	.2	@	.0	.2	.1	.0	.0
Nov	9.9	5.7	2	#	9.5	1983	13	31.0	1983	19	1982	30	8	1982	3.2	2.3	1.0	.6	.0	6.5	5.8	3.3	.4
Dec	13.1	10.5	7	5	14.0	1982	23	44.6	1982	30	1983	27	26	1983	4.0	3.2	1.7	1.0	.2	-9.9	-9.9	-9.9	-9.9
Ann	70.8	51.9	N/A	N/A	17.0	Feb 1985	8	51.0	Feb 1975	42	Feb 1978	12	34	Feb 1983	23.4	18.3	9.2	4.5	.6	-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

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Lat: 43° 42N

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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	7/29	7/26	7/23	7/21	7/18	7/16	7/14	7/11	7/07
32	7/20	7/15	7/12	7/09	7/06	7/03	6/30	6/26	6/22
28	7/13	7/05	6/29	6/24	6/19	6/14	6/09	6/03	5/26
24	6/18	6/10	6/04	5/30	5/26	5/21	5/16	5/10	5/02
20	5/22	5/17	5/13	5/10	5/07	5/04	5/01	4/27	4/22
16	5/09	5/03	4/29	4/25	4/22	4/19	4/15	4/11	4/05
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	8/03	8/06	8/09	8/11	8/13	8/16	8/18	8/22
32	8/07	8/13	8/17	8/21	8/24	8/27	8/31	9/04	9/10
28	8/18	8/24	8/28	9/01	9/04	9/07	9/11	9/15	9/21
24	8/30	9/05	9/09	9/13	9/16	9/20	9/23	9/27	10/03
20	9/09	9/15	9/19	9/22	9/25	9/28	10/01	10/05	10/11
16	9/24	9/30	10/03	10/06	10/10	10/13	10/16	10/19	10/25
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	41	35	30	26	23	19	15	11	4
32	72	64	58	53	49	44	39	33	25
28	108	97	89	82	76	70	63	55	45
24	140	131	124	118	113	107	102	95	85
20	160	153	148	144	140	136	132	126	119
16	196	187	181	175	170	165	159	153	144

* 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	1632	1342	1180	842	577	352	182	210	444	792	1208	1583	10344
60	1477	1202	1025	692	422	219	85	101	302	637	1058	1428	8648
57	1384	1118	932	602	331	153	44	56	223	544	968	1335	7690
55	1322	1062	870	542	272	116	26	34	177	482	908	1273	7084
50	1167	922	715	402	144	47	5	7	84	330	758	1118	5699
32	610	429	214	60	1	0	0	0	0	19	270	570	2173

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	1	11	58	208	447	643	862	827	547	251	52	10	3917
55	0	0	0	1	5	70	175	148	34	0	0	0	433
57	0	0	0	0	2	47	131	107	20	0	0	0	307
60	0	0	0	0	0	23	79	60	8	0	0	0	170
65	0	0	0	0	0	5	22	14	1	0	0	0	42
70	0	0	0	0	0	0	4	1	0	0	0	0	5

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	67	240	432	641	616	348	102	0	0	0	0	0	67	307	739	1380	1996	2344	2446	2446	2446
45	0	0	0	23	124	290	486	462	215	37	0	0	0	0	0	23	147	437	923	1385	1600	1637	1637	1637
50	0	0	0	6	48	157	332	309	101	9	0	0	0	0	0	6	54	211	543	852	953	962	962	962
55	0	0	0	0	9	67	189	168	33	0	0	0	0	0	0	0	9	76	265	433	466	466	466	466
60	0	0	0	0	0	14	72	58	5	0	0	0	0	0	0	0	0	14	86	144	149	149	149	149
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	7	84	202	320	470	459	311	144	13	0	0	0	7	91	293	613	1083	1542	1853	1997	2010	2010

(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