

Climatology of the United States

No. 20

1971-2000

Station: FARSON 5 N, WY

COOP ID: 483170

Climate Division: WY 3

NWS Call Sign:

Elevation: 6,675 Feet Lat: 42° 11N

Lon: 109° 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	25.6	-5.7	10.0	55	1931	30	21.8	1981	-49	1979	1	-5.8	1979	1708	0	.0	.0	.0	21.2	31.0	19.3
Feb	30.3	-1.4	14.5	57	1977	20	25.2	2000	-47	1942	18	3.3	1993	1417	0	.0	.0	.6	14.6	28.3	14.7
Mar	41.5	13.4	27.5	69+	1943	30	35.9	1994	-31+	1966	5	18.6	1980	1163	0	.0	.0	6.4	4.0	30.8	3.5
Apr	52.4	21.3	36.9	81	1952	27	41.3	1981	-24	1936	2	31.0	1975	845	0	.0	.0	19.0	.8	28.0	.2
May	63.4	30.7	47.1	89	1936	30	51.2	1994	5+	1972	1	41.9	1983	557	0	.0	.0	28.6	.0	20.5	.0
Jun	74.7	38.2	56.5	97	1954	23	62.1	1988	19	1982	9	50.5	1998	271	14	.0	1.1	29.8	.0	5.1	.0
Jul	82.8	43.0	62.9	97+	1939	14	66.2	1989	25	1949	20	54.6	1993	117	51	.0	2.7	31.0	.0	.7	.0
Aug	81.2	41.4	61.3	97	1940	13	64.7	1983	21	1964	30	57.9	1993	139	25	.0	1.0	31.0	.0	1.9	.0
Sep	70.7	30.5	50.6	93	1931	4	57.3	1990	7	1972	26	45.0	1971	433	2	.0	.0	28.7	.1	16.9	.0
Oct	58.3	20.2	39.3	81	1979	6	44.8	1979	-9+	1991	31	32.9	1984	798	0	.0	.0	24.6	.4	29.3	.2
Nov	38.9	7.5	23.2	71	1924	3	30.4	1995	-34	1955	16	10.6	2000	1254	0	.0	.0	6.2	8.3	29.9	5.9
Dec	27.7	-3.7	12.0	70	1925	2	22.9	1980	-52	1978	31	-1.3	1978	1645	0	.0	.0	.2	19.5	31.0	19.1
Ann	54.0	19.6	36.8	97+	Jun 1954	23	66.2	Jul 1989	-52	Dec 1978	31	-5.8	Jan 1979	10347	92	.0	4.8	206.1	68.9	253.4	62.9

+ 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: 1915-2001

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

040-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: FARSON 5 N, WY

COOP ID: 483170

Climate Division: WY 3

NWS Call Sign:

Elevation: 6,675 Feet Lat: 42°11N

Lon: 109°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	.36	.28	.80	1997	3	1.28	1997	.00	1989	5.5	1.7	.1	.0	.02	.06	.12	.17	.22	.28	.35	.44	.56	.75	.93
Feb	.32	.24	1.50	1979	14	1.55	1979	.00+	1999	3.6	.9	.1	@	.00	.02	.06	.11	.16	.22	.30	.39	.53	.76	.99
Mar	.52	.41	.79	1968	9	1.90	1983	.00	1978	4.5	1.8	.2	.0	.04	.09	.18	.25	.33	.42	.52	.64	.80	1.07	1.33
Apr	.74	.64	1.32	1932	27	2.08	1991	.00+	1996	5.8	2.6	.1	.0	.00	.13	.27	.39	.51	.63	.76	.92	1.13	1.47	1.80
May	1.41	1.09	1.70	1978	5	4.58	1980	.08	1979	6.5	3.3	.7	.1	.17	.28	.48	.67	.88	1.11	1.39	1.72	2.18	2.93	3.66
Jun	.85	.78	1.25	1993	3	2.54	1998	.00+	1979	4.9	1.9	.4	@	.00	.06	.19	.32	.46	.62	.81	1.05	1.37	1.92	2.46
Jul	1.01	.93	1.83	1982	28	3.28	1977	.03	1999	5.8	2.0	.4	.1	.06	.11	.23	.37	.53	.71	.93	1.22	1.62	2.31	2.99
Aug	.68	.57	1.85	1983	18	2.53	1983	.00	1996	5.2	2.2	.3	@	.03	.09	.19	.29	.40	.52	.66	.83	1.07	1.47	1.85
Sep	.94	.84	1.85	1982	14	3.18	1982	.00+	1980	5.2	2.6	.3	@	.00	.00	.26	.45	.62	.80	.98	1.21	1.51	1.96	2.40
Oct	.67	.57	1.08	1943	19	1.76	1980	.00+	1989	4.2	2.2	.3	.0	.00	.05	.15	.25	.37	.49	.64	.83	1.09	1.52	1.94
Nov	.41	.36	.84	1947	12	1.01	1978	.00+	1999	4.5	1.1	.0	.0	.00	.10	.18	.25	.30	.37	.43	.51	.61	.76	.91
Dec	.36	.29	.85	1979	22	1.00	1983	.00+	1999	4.7	1.2	.1	.0	.00	.02	.07	.12	.18	.25	.33	.43	.58	.83	1.08
Ann	8.27+	8.17+	1.85+	Aug 1983	18	4.58	May 1980	.00+	Dec 1999	60.4	23.5	3.0	.2	4.63	5.27	6.12	6.79	7.39	7.99	8.63	9.34	10.22	11.53	12.70

+ 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: 1915-2001

(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: FARSON 5 N, WY

COOP ID: 483170

Climate Division: WY 3

NWS Call Sign:

Elevation: 6,675 Feet

Lat: 42° 11N

Lon: 109° 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	5.4	5.0	3	2	6.0	1972	23	18.5	1972	14	1993	19	11	1993	3.2	2.5	.4	.1	.0	13.8	7.6	3.6	.0
Feb	3.5	3.0	4	2	6.0	1983	14	10.0	1994	16	1993	28	12	1993	2.7	1.7	.3	.1	.0	10.6	6.6	3.5	.0
Mar	5.6	3.3	1	#	12.0	1983	25	19.8	1983	16	1983	26	9	1983	3.0	2.0	.7	.3	.1	2.8	1.4	.7	.0
Apr	2.8	1.0	#	#	7.0	1997	5	13.7	1991	9	1997	6	1	1999	1.8	1.4	.3	.1	.0	1.1	.1	.0	.0
May	.8	.0	#	0	8.0	1975	20	8.0	1975	7	1978	5	2	1978	.2	.2	.1	.1	.0	.3	.1	.1	.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	3	2000	24	#+	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	1.5	.0	#	0	6.3	1975	27	6.3	1975	6+	1996	29	1+	1996	.6	.6	.2	.1	.0	.3	.2	.0	.0
Nov	3.2	2.8	1	#	6.0	1998	6	7.2	1977	18	1978	25	5	1993	1.7	1.2	.5	.1	.0	5.3	3.0	1.0	.0
Dec	3.7	2.1	2	#	4.5	1982	24	18.0	1971	10	1982	24	8	1982	2.8	1.8	.3	.0	.0	13.6	3.7	1.0	.0
Ann	26.5	17.2	N/A	N/A	12.0	Mar 1983	25	19.8	Mar 1983	18	Nov 1978	25	12	Feb 1993	16.0	11.4	2.8	.9	.1	47.8	22.7	9.9	.0

+ 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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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	7/23	7/18	7/14	7/11	7/08	7/05	7/02	6/29	6/23
32	7/14	7/07	7/03	6/29	6/25	6/21	6/17	6/12	6/06
28	6/22	6/16	6/12	6/08	6/05	6/02	5/29	5/25	5/19
24	6/09	6/03	5/29	5/26	5/22	5/19	5/15	5/11	5/05
20	5/28	5/22	5/18	5/15	5/11	5/08	5/05	5/01	4/25
16	5/14	5/08	5/04	4/30	4/27	4/23	4/20	4/15	4/09
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	7/31	8/06	8/09	8/13	8/16	8/19	8/22	8/26	8/31
32	8/10	8/16	8/20	8/24	8/28	8/31	9/04	9/09	9/15
28	8/22	8/27	8/31	9/03	9/06	9/09	9/12	9/15	9/20
24	9/01	9/07	9/10	9/14	9/17	9/20	9/23	9/27	10/02
20	9/12	9/17	9/21	9/23	9/26	9/29	10/02	10/05	10/10
16	9/21	9/26	9/30	10/03	10/06	10/09	10/12	10/16	10/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	60	52	47	42	38	34	29	23	16
32	93	83	76	69	63	57	51	44	33
28	119	110	103	97	92	86	81	74	65
24	142	133	127	121	116	111	106	100	91
20	157	150	145	141	137	133	129	124	117
16	185	177	171	166	162	157	152	146	138

* 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	1708	1417	1163	845	557	271	117	139	433	798	1254	1645	10347
60	1553	1277	1008	695	403	155	43	51	292	643	1104	1490	8714
57	1460	1193	915	605	313	101	19	23	217	550	1014	1397	7807
55	1398	1137	853	545	257	72	11	12	173	489	954	1335	7236
50	1243	997	698	399	135	23	1	2	85	340	804	1180	5907
32	701	516	233	47	0	0	0	0	0	27	310	636	2470

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	15	22	92	192	467	733	957	908	559	252	46	14	4257
55	0	0	0	0	10	115	255	207	42	1	0	0	630
57	0	0	0	0	5	84	201	156	26	0	0	0	472
60	0	0	0	0	1	48	132	91	11	0	0	0	283
65	0	0	0	0	0	14	51	25	2	0	0	0	92
70	0	0	0	0	0	3	12	3	0	0	0	0	18

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	3	68	240	494	734	665	345	92	0	0	0	0	3	71	311	805	1539	2204	2549	2641	2641	2641
45	0	0	0	24	126	347	579	510	214	30	0	0	0	0	0	24	150	497	1076	1586	1800	1830	1830	1830
50	0	0	0	5	48	216	425	357	104	6	0	0	0	0	0	5	53	269	694	1051	1155	1161	1161	1161
55	0	0	0	0	5	105	273	206	34	0	0	0	0	0	0	0	5	110	383	589	623	623	623	623
60	0	0	0	0	0	35	131	81	4	0	0	0	0	0	0	0	0	35	166	247	251	251	251	251
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	14	102	234	373	503	479	315	156	14	0	0	0	14	116	350	723	1226	1705	2020	2176	2190	2190

(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