

Climatography of the United States

No. 20

1971-2000

Station: RECLUSE 11 NNW, WY

COOP ID: 487548

Climate Division: WY 5

NWS Call Sign:

Elevation: 3,750 Feet Lat: 44° 55N

Lon: 105° 44W

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	30.1	-2.6	13.8	72	1981	23	27.0	1981	-43	1982	16	-3.7	1979	1590	0	.0	.0	1.8	13.3	31.0	12.7
Feb	37.6	4.6	21.1	69	1992	29	30.8	1992	-44	1971	7	6.7	1993	1229	0	.0	.0	5.9	7.5	28.1	6.8
Mar	46.5	15.8	31.2	78+	1978	30	38.9	1986	-36	1978	3	22.8	1996	1049	0	.0	.0	14.7	3.3	29.6	2.0
Apr	56.8	26.6	41.7	88	1980	21	48.0	1987	0	1983	14	34.8	1983	699	0	.0	.0	22.7	.9	20.7	.1
May	66.4	36.5	51.5	97	1969	27	56.6	1988	11	1967	4	42.4	1983	426	6	.0	.4	29.3	@	7.3	.0
Jun	77.7	46.3	62.0	106	1988	20	73.8	1988	23	1984	1	55.8	1982	162	72	.4	3.5	29.9	.0	1.1	.0
Jul	86.5	50.6	68.6	109	1981	6	73.5	1988	30	1983	3	60.2	1993	57	169	2.0	13.0	31.0	.0	.1	.0
Aug	86.0	48.4	67.2	106	1979	5	72.7	1983	23	1980	4	62.5	1993	64	132	1.2	12.9	31.0	.0	.2	.0
Sep	74.0	36.2	55.1	104	1978	5	62.5	1998	6	1984	25	49.4	1984	314	17	.2	2.9	28.9	@	7.2	.0
Oct	60.4	25.2	42.8	90+	1992	1	47.0	1979	-26	1991	30	36.0	1982	688	0	.0	.1	25.6	.5	23.5	.1
Nov	42.5	11.3	26.9	76	1975	4	38.0	1999	-34	1985	23	11.9	1985	1143	0	.0	.0	10.2	5.6	29.3	3.5
Dec	31.6	.3	16.0	69	1973	1	24.3	1991	-51	1983	24	-2.4	1983	1520	0	.0	.0	2.9	11.7	31.0	9.7
Ann	58.0	24.9	41.5	109	Jul 1981	6	73.8	Jun 1988	-51	Dec 1983	24	-3.7	Jan 1979	8941	396	3.8	32.8	233.9	42.8	209.1	34.9

+ 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: 1966-2001

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

074-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: RECLUSE 11 NNW, WY

COOP ID: 487548

Climate Division: WY 5

NWS Call Sign:

Elevation: 3,750 Feet Lat: 44°55N

Lon: 105°44W

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	.42	.36	.54	1971	30	1.80	1971	.05	1981	6.4	1.5	@	.0	.06	.10	.16	.22	.28	.35	.42	.52	.64	.85	1.05
Feb	.32	.26	.52	1977	22	1.02	1971	.01	1973	4.4	1.2	@	.0	.03	.06	.10	.14	.19	.25	.31	.39	.50	.67	.85
Mar	.77	.67	.76	1983	6	1.71	1977	.08	1979	6.8	2.3	.3	.0	.16	.23	.35	.45	.55	.66	.79	.93	1.13	1.44	1.74
Apr	1.60	1.36	1.94	1990	26	3.87	1990	.08	1981	8.8	3.8	.6	.2	.29	.43	.67	.88	1.11	1.35	1.62	1.95	2.39	3.09	3.77
May	2.71	2.32	2.48	1978	18	10.03	1978	.94	1973	10.2	5.5	1.9	.4	.82	1.08	1.46	1.79	2.11	2.45	2.82	3.25	3.81	4.68	5.49
Jun	2.47	2.19	1.99	1984	9	6.51	1976	.43	1988	9.4	5.4	1.3	.5	.57	.80	1.16	1.49	1.81	2.15	2.54	3.00	3.60	4.56	5.46
Jul	1.67	1.35	1.99	1969	16	4.21	1987	.20	1991	7.9	4.1	.6	.2	.35	.51	.75	.97	1.20	1.44	1.71	2.03	2.45	3.13	3.78
Aug	1.16	.89	1.95	1986	31	3.30	1980	.19	2000	6.2	3.0	.3	.1	.25	.36	.53	.69	.84	1.00	1.19	1.41	1.70	2.16	2.60
Sep	1.26	.95	1.18	1977	30	4.02	1986	.00	1989	5.2	3.1	.8	.2	.09	.22	.42	.61	.80	1.01	1.25	1.55	1.95	2.60	3.23
Oct	1.29	1.02	1.99	1971	2	4.82	1971	.05	1978	5.7	2.9	.7	.2	.13	.22	.40	.58	.77	.99	1.25	1.57	2.01	2.74	3.45
Nov	.65	.58	.90	1973	19	1.28	1973	.02	1981	6.0	2.1	.2	.0	.12	.17	.27	.36	.45	.54	.66	.79	.97	1.26	1.53
Dec	.43	.43	.56	1967	27	1.11	1989	.00+	1991	5.5	1.7	@	.0	.00	.07	.16	.23	.29	.37	.45	.54	.67	.87	1.07
Ann	14.75	14.67	2.48	May 1978	18	10.03	May 1978	.00+	Dec 1991	82.5	36.6	6.7	1.8	9.82	10.75	11.95	12.87	13.70	14.50	15.33	16.26	17.39	19.04	20.48

+ 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: 1966-2001

(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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151 Patton Avenue
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Station: RECLUSE 11 NNW, WY

COOP ID: 487548

Climate Division: WY 5

NWS Call Sign:

Elevation: 3,750 Feet

Lat: 44° 55N

Lon: 105° 44W

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	7.7	6.5	6	5	7.0	1971	30	21.8	1971	22	1977	18	17	1977	4.3	2.4	.7	.2	.0	23.8	19.7	15.5	6.1
Feb	3.3	2.0	5	2	4.0	1978	11	14.0	1978	24	1971	8	19	1978	2.9	1.5	.1	.0	.0	-9.9	-9.9	-9.9	-9.9
Mar	6.8	5.0	2	1	15.5	1977	29	23.0	1977	22	1978	6	12	1978	3.0	2.2	.4	.2	.1	7.1	4.3	3.1	1.0
Apr	2.0	.0	#	#	18.0	1984	26	18.0	1984	25	1984	27	3	1984	.9	.8	.3	.2	.1	.9	.7	.6	.1
May	.7	.0	#	0	12.0	1986	9	14.0	1986	6	1983	11	#+	1986	.1	.1	@	@	@	.1	.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	#	1996	6	#	1996	.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	.5	.0	#	0	6.0	1984	23	9.0	1984	5	1984	24	#	1984	.1	.1	.1	@	.0	.1	.1	.1	.0
Oct	1.8	.0	#	#	10.0	1989	29	10.0	1989	6+	1991	29	1	1991	.6	.5	.1	.1	@	.7	.3	.1	.0
Nov	6.0	5.5	1	1	6.0	1971	16	15.5	1976	10	1976	30	5	1978	1.8	1.4	.5	.2	.0	3.5	1.7	.6	.2
Dec	6.7	6.0	4	2	5.0	1971	6	16.6	1972	12	1977	8	10	1978	3.7	2.5	.7	.2	.0	17.7	11.0	6.6	.7
Ann	35.5	25.0	N/A	N/A	18.0	Apr 1984	26	23.0	Mar 1977	25	Apr 1984	27	19	Feb 1978	17.4	11.5	2.9	1.1	.2	-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:

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COOP ID: 487548

Climate Division: WY 5

NWS Call Sign:

Elevation: 3,750 Feet

Lat: 44° 55N

Lon: 105° 44W

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	7/10	7/03	6/28	6/24	6/21	6/17	6/13	6/08	6/01
32	6/24	6/16	6/11	6/07	6/03	5/30	5/26	5/20	5/13
28	6/06	5/31	5/26	5/22	5/19	5/15	5/11	5/07	5/01
24	5/18	5/13	5/09	5/06	5/04	5/01	4/28	4/25	4/20
20	5/12	5/05	5/01	4/27	4/23	4/19	4/15	4/10	4/04
16	4/29	4/22	4/17	4/13	4/09	4/04	3/31	3/26	3/19
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	8/11	8/17	8/21	8/25	8/28	9/01	9/05	9/09	9/15
32	8/28	9/02	9/06	9/09	9/12	9/15	9/18	9/21	9/26
28	9/03	9/08	9/12	9/15	9/18	9/21	9/24	9/28	10/03
24	9/06	9/13	9/17	9/21	9/25	9/29	10/03	10/08	10/14
20	9/17	9/23	9/28	10/02	10/05	10/08	10/12	10/16	10/22
16	10/02	10/08	10/13	10/17	10/20	10/24	10/28	11/01	11/08
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	95	86	79	73	68	63	57	50	41
32	125	117	110	105	100	95	90	83	75
28	145	137	131	126	122	117	112	106	98
24	169	161	154	149	144	139	133	127	118
20	194	184	177	170	164	159	152	145	135
16	221	212	205	199	194	189	183	176	167

* 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:
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1971-2000**

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Climate Division: WY 5

NWS Call Sign:

Elevation: 3,750 Feet Lat: 44°55N

Lon: 105°44W

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	1590	1229	1049	699	426	162	57	64	314	688	1143	1520	8941
60	1435	1089	894	550	289	84	19	21	196	533	993	1365	7468
57	1342	1005	801	463	217	51	9	9	138	441	903	1272	6651
55	1280	949	739	406	175	34	4	4	105	380	843	1210	6129
50	1125	814	585	275	91	11	0	1	45	240	699	1055	4941
32	599	374	144	18	0	0	0	0	0	11	258	544	1948

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	32	69	117	309	604	900	1134	1091	693	346	105	47	5447
55	0	0	0	7	65	244	426	383	108	2	0	0	1235
57	0	0	0	4	45	201	368	325	81	1	0	0	1025
60	0	0	0	1	24	144	285	244	50	0	0	0	748
65	0	0	0	0	6	72	169	132	17	0	0	0	396
70	0	0	0	0	1	28	85	57	5	0	0	0	176

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	6	41	167	404	652	911	867	518	194	24	0	0	6	47	214	618	1270	2181	3048	3566	3760	3784	3784
45	0	0	7	87	265	502	756	713	379	101	4	0	0	0	7	94	359	861	1617	2330	2709	2810	2814	2814
50	0	0	0	32	148	357	601	559	248	36	0	0	0	0	0	32	180	537	1138	1697	1945	1981	1981	1981
55	0	0	0	10	69	225	448	406	142	10	0	0	0	0	0	10	79	304	752	1158	1300	1310	1310	1310
60	0	0	0	1	24	119	302	256	63	1	0	0	0	0	0	1	25	144	446	702	765	766	766	766
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	18	63	160	282	421	569	551	376	201	43	5	0	18	81	241	523	944	1513	2064	2440	2641	2684	2689

(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