U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: FAIRFIELD RANGER STN, ID **COOP ID: 103108**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,065 Feet** **Lat: 43˚21N** **Lon: 114˚47W**

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	30.8	5.9	18.4	48	1975	18	24.4	1998	-42	1984	19	10.8	1984	1446	0	.0	.0	.0	17.3	30.9	10.5
Feb	36.2	9.0	22.6	63	1992	28	33.5	1992	-38	1950	2	12.4	1989	1188	0	.0	.0	.8	9.3	27.9	7.6
Mar	44.5	18.6	31.6	70	1986	27	42.1	1992	-24+	1960	1	21.4	1976	1038	0	.0	.0	5.9	1.5	30.2	1.6
Apr	56.9	28.5	42.7	83+	1992	29	50.8	1987	-3	1967	2	33.2	1975	670	0	.0	.0	21.5	@	22.4	.0
May	67.1	35.9	51.5	89+	1986	31	57.1	1992	15+	1984	7	47.3	1977	419	1	.0	.0	30.0	.0	11.4	.0
Jun	76.1	41.9	59.0	99	1949	11	64.7	1988	19	1966	1	54.2	1998	209	29	.0	1.9	30.0	.0	3.6	.0
Jul	85.3	47.4	66.4	99+	1998	18	71.4	1989	26	1981	8	57.2	1993	72	113	.0	8.2	31.0	.0	.4	.0
Aug	84.9	45.5	65.2	100	1962	16	70.0	1971	23	1992	26	60.2	1993	90	96	.0	7.9	31.0	.0	1.5	.0
Sep	75.6	36.5	56.1	96+	1950	3	61.2	1990	11	1985	30	48.4	1985	286	16	.0	1.1	29.7	.0	9.6	.0
Oct	63.4	27.5	45.5	87	1992	1	54.8	1988	2	1971	29	41.6	1982	607	0	.0	.0	27.6	.1	23.9	.0
Nov	43.3	18.0	30.7	69+	1999	6	38.2	1999	-21	1955	16	21.9	1994	1030	0	.0	.0	7.7	4.5	28.3	2.0
Dec	31.5	7.2	19.4	55	1972	1	25.6	1981	-40	1983	23	9.7	1985	1416	0	.0	.0	.1	15.3	30.7	8.5
Ann	58.0	26.8	42.4	100	Aug 1962	16	71.4	Jul 1989	-42	Jan 1984	19	9.7	Dec 1985	8471	255	.0	19.1	215.3	48.0	220.8	30.2

\+ 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/normals/usnormals.html

(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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: FAIRFIELD RANGER STN, ID **COOP ID: 103108**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,065 Feet** **Lat: 43˚21N** **Lon: 114˚47W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	2.22	2.29	1.59	1970	27	4.58	1971	.32	1992
Feb	1.71	1.64	2.20	1952	2	5.24	1986	.16	1996
Mar	1.45	1.32	1.13	1950	17	3.61	1983	.00	1994
Apr	1.05	.82	1.22	1956	27	2.15	1983	.00	1998
May	1.33	1.03	1.56	1987	17	4.53	1998	.00+	2000
Jun	.83	.64	1.43	1968	6	2.48	1993	.02	1974
Jul	.60	.26	1.64	1985	30	2.80	1982	.00+	2000
Aug	.42	.23	1.03	1968	17	2.24	1983	.00+	1999
Sep	.69	.31	1.30	1961	9	3.04	1985	.00+	1999
Oct	.82	.57	1.15	1979	19	2.37	1982	.00+	1999
Nov	1.77	1.44	2.00	1988	28	5.83	1988	.02	1976
Dec	1.98	1.57	2.38	1964	22	4.65	1983	.03	1976
Ann	14.87	14.62	2.38	Dec 1964	22	5.83	Nov 1988	.00+	Jul 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.0	5.6	1.4	.3
Feb	7.8	4.5	1.0	.1
Mar	7.1	4.0	.6	@
Apr	6.4	3.1	.5	.0
May	7.6	3.9	.6	.1
Jun	5.6	2.4	.2	.0
Jul	3.2	1.6	.4	.1
Aug	3.0	1.1	.2	@
Sep	3.7	2.0	.3	.1
Oct	4.5	2.3	.2	.1
Nov	8.9	4.9	.7	.1
Dec	8.3	5.2	1.1	.1
Ann	75.1	40.6	7.2	1.0

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.52	.73	1.05	1.34	1.63	1.94	2.28	2.70	3.23	4.09	4.89
Feb	.26	.41	.65	.89	1.14	1.40	1.71	2.09	2.59	3.41	4.20
Mar	.17	.35	.60	.80	1.01	1.24	1.49	1.79	2.19	2.83	3.43
Apr	.12	.25	.43	.58	.73	.90	1.08	1.30	1.59	2.06	2.51
May	.00	.00	.36	.62	.86	1.11	1.38	1.71	2.15	2.81	3.46
Jun	.06	.11	.21	.32	.45	.60	.78	1.00	1.32	1.86	2.39
Jul	.00	.00	.00	.06	.16	.29	.47	.70	1.04	1.65	2.28
Aug	.00	.00	.00	.05	.13	.23	.35	.50	.73	1.11	1.50
Sep	.00	.00	.03	.13	.25	.41	.59	.84	1.19	1.78	2.40
Oct	.00	.00	.09	.26	.42	.60	.81	1.05	1.39	1.94	2.50
Nov	.13	.25	.47	.72	.99	1.30	1.67	2.15	2.80	3.90	4.99
Dec	.10	.21	.44	.70	1.01	1.37	1.81	2.39	3.19	4.57	5.95
Ann	8.91	9.99	11.41	12.52	13.53	14.51	15.54	16.70	18.13	20.23	22.09

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

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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: FAIRFIELD RANGER STN, ID **COOP ID: 103108**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,065 Feet** **Lat: 43°21N** **Lon: 114°47W**

Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	16.8	15	15	13.0	1980	12	33.1	1982	38+	1984	4	32	1984	5.4	4.0	2.2	1.0	.2	-9.9	-9.9	-9.9	-9.9
Feb	11.3	9.0	18	19	12.0	1985	8	45.1	1975	46	1985	12	34	1993	4.2	3.3	1.6	.7	.1	-9.9	-9.9	-9.9	-9.9
Mar	5.1	2.8	10	7	7.0	1975	18	23.1	1975	35	1984	3	29	1993	1.9	1.6	.6	.3	.0	11.0	9.3	8.1	6.6
Apr	1.9	.0	1	0	6.0	1975	6	13.4	1975	22	1975	7	10	1975	.8	.6	.2	.1	.0	1.7	1.5	1.2	.6
May	.3	.0	#	0	4.0	1975	5	4.0	1975	1	1984	3	#	1984	.1	.1	@	.0	.0	.0	.0	.0	.0
Jun	#	.0	0	0	#	1976	13	#+	1976	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	.1	.0	#	0	2.0	1971	30	3.0	1971	1	1982	14	#	1982	.1	.1	.0	.0	.0	.0	.0	.0	.0
Oct	.4	.0	#	0	2.5	1982	29	2.5	1982	1	1985	22	#+	1991	.4	.3	.0	.0	.0	@	.0	.0	.0
Nov	9.5	8.9	2	1	12.0	1975	30	24.3	1988	18+	1988	28	7	1988	3.0	2.3	1.1	.4	.1	6.4	4.6	3.8	1.3
Dec	14.4	15.5	8	6	11.0	1980	2	38.5	1981	38	1983	31	29	1983	4.7	3.8	2.0	.7	@	18.6	13.5	10.0	3.8
Ann	61.5	53.0	N/A	N/A	13.0	Jan 1980	12	45.1	Feb 1975	46	Feb 1985	12	34	Feb 1993	20.6	16.1	7.7	3.2	.4	-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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: FAIRFIELD RANGER STN, ID **COOP ID: 103108**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,065 Feet** **Lat: 43˚21N** **Lon: 114˚47W**

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	7/25	7/19	7/15	7/11	7/08	7/05	7/01	6/27	6/21
32	7/09	7/03	6/28	6/25	6/21	6/17	6/14	6/09	6/03
28	6/26	6/18	6/13	6/09	6/05	6/01	5/27	5/22	5/15
24	5/29	5/22	5/17	5/13	5/09	5/05	4/30	4/25	4/18
20	5/10	5/02	4/27	4/23	4/18	4/14	4/10	4/04	3/28
16	4/23	4/16	4/12	4/07	4/03	3/30	3/26	3/21	3/15

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	8/03	8/09	8/14	8/18	8/21	8/25	8/29	9/02	9/09
32	8/15	8/21	8/25	8/29	9/01	9/04	9/08	9/12	9/18
28	8/26	9/01	9/06	9/09	9/13	9/17	9/21	9/25	10/01
24	9/07	9/13	9/18	9/22	9/26	9/30	10/04	10/08	10/15
20	9/18	9/25	9/30	10/04	10/08	10/12	10/16	10/21	10/28
16	10/03	10/09	10/14	10/18	10/21	10/25	10/29	11/03	11/09

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	70	61	54	49	44	38	33	26	17
32	99	90	83	77	71	66	60	53	43
28	129	119	112	105	100	94	87	80	70
24	166	157	151	145	139	134	128	122	112
20	201	191	184	178	172	166	160	153	143
16	223	215	210	205	200	196	191	185	177

***** 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/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: FAIRFIELD RANGER STN, ID **COOP ID: 103108**

Climate Division: ID 4 **NWS Call Sign:** **Elevation: 5,065 Feet** **Lat: 43˚21N** **Lon: 114˚47W**

Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1446	1188	1038	670	419	209	72	90	286	607	1030	1416	8471
60	1291	1048	883	523	274	111	22	32	170	454	880	1261	6949
57	1198	964	790	439	196	67	10	15	116	364	790	1168	6117
55	1136	908	728	384	151	45	4	8	85	308	730	1106	5593
50	981	768	579	260	67	12	0	1	32	183	582	951	4416
32	438	303	157	24	0	0	0	0	0	4	152	419	1497

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	14	40	143	344	604	810	1064	1029	720	420	111	26	5325
55	0	0	1	15	43	165	355	324	116	10	0	0	1029
57	0	0	0	9	25	127	299	268	86	5	0	0	819
60	0	0	0	3	10	81	218	193	51	2	0	0	558
65	0	0	0	0	1	29	113	96	16	0	0	0	255
70	0	0	0	0	0	7	43	33	4	0	0	0	87

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	7	132	344	560	802	764	477	206	15	0	0	1	8	140	484	1044	1846	2610	3087	3293	3308	3308
45	0	0	0	59	209	412	647	609	335	105	0	0	0	0	0	59	268	680	1327	1936	2271	2376	2376	2376
50	0	0	0	18	109	269	492	455	206	36	0	0	0	0	0	18	127	396	888	1343	1549	1585	1585	1585
55	0	0	0	4	43	147	340	307	99	11	0	0	0	0	0	4	47	194	534	841	940	951	951	951
60	0	0	0	0	9	62	198	172	34	0	0	0	0	0	0	0	9	71	269	441	475	475	475	475
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	1	19	121	268	396	536	526	386	221	25	0	0	1	20	141	409	805	1341	1867	2253	2474	2499	2499

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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