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: SPRINGVIEW, NE **COOP ID: 258090**

Climate Division: NE 2 **NWS Call Sign:** **Elevation: 2,496 Feet** **Lat: 42˚49N** **Lon: 99˚45W**

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	30.9	8.3	19.6	68+	1990	11	31.3	1990	-26	1966	29	4.1	1979	1406	0	.0	.0	3.8	15.1	30.2	8.7
Feb	36.5	13.8	25.2	76	1982	23	34.7	1998	-27	1996	2	11.1	1978	1117	0	.0	.0	6.8	11.6	26.5	4.9
Mar	46.2	22.3	34.3	86	1978	31	41.6	1986	-21	1998	11	26.1	1996	954	0	.0	.0	12.8	6.2	25.9	1.2
Apr	58.2	33.7	46.0	94+	1989	23	53.2	1981	7	1975	3	39.0	1995	573	1	.0	.2	21.3	.8	12.9	.0
May	69.6	45.1	57.4	102	1967	25	63.1	1987	18	1954	3	52.2	1995	264	26	.0	.3	29.7	.0	1.5	.0
Jun	80.1	54.7	67.4	106	1970	29	76.1	1988	34	1969	14	61.2	1982	67	139	.4	4.5	30.0	.0	.0	.0
Jul	86.5	60.1	73.3	110+	1990	3	77.9	1974	39	1999	6	65.9	1992	12	269	1.9	11.5	31.0	.0	.0	.0
Aug	85.0	58.1	71.6	107	1959	11	76.6	1983	40+	1992	27	66.2	1992	25	228	.9	9.7	31.0	.0	.0	.0
Sep	75.7	47.8	61.8	103	1960	3	72.0	1998	24+	1984	29	56.3	1973	170	72	.1	4.1	29.4	@	1.4	.0
Oct	62.4	35.6	49.0	97	1963	4	53.0	1997	7+	1991	31	44.4	1972	497	0	.0	.4	25.3	.4	9.3	.0
Nov	44.0	22.1	33.1	84+	1999	7	44.5	1999	-16	1959	14	20.2	1985	959	0	.0	.0	11.0	6.9	24.5	1.1
Dec	34.2	11.9	23.1	75	1998	2	31.4	1979	-31	1989	22	5.5	1983	1301	0	.0	.0	4.9	12.9	30.3	5.7
Ann	59.1	34.5	46.8	110+	Jul 1990	3	77.9	Jul 1974	-31	Dec 1989	22	4.1	Jan 1979	7345	735	3.3	30.7	237.0	53.9	162.5	21.6

\+ 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

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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	.35	.27	.85	1979	19	1.49	1979	.00+	2000
Feb	.51	.38	1.30+	1977	23	1.96	1987	.00	1998
Mar	1.35	.95	1.50	1990	7	5.23	1977	.00	1997
Apr	2.17	2.12	2.00	1988	3	4.48	1978	.39	1989
May	3.88	3.35	3.22	1978	29	8.94	1995	.60	1985
Jun	3.64	3.31	4.65	1999	22	8.25	1999	.92	1981
Jul	3.41	2.99	3.91	1962	1	8.22	1972	.50	1980
Aug	2.33	1.88	3.85	1994	10	7.11	1994	.16	2000
Sep	2.41	1.98	3.48	1967	18	7.88	1996	.13	1980
Oct	1.48	1.35	1.65+	1997	12	4.08	1982	.09	1978
Nov	.80	.68	2.23	1972	2	2.82	1972	.03+	1999
Dec	.34	.26	1.10	1949	11	1.29	1981	.00+	2000
Ann	22.67	23.43	4.65	Jun 1999	22	8.94	May 1995	.00+	Dec 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	3.2	1.2	.1	.0
Feb	3.7	1.5	.2	.1
Mar	6.0	2.9	.9	.3
Apr	8.3	5.2	1.2	.2
May	10.0	7.0	2.8	.9
Jun	9.9	6.8	2.2	.9
Jul	8.8	5.8	2.3	.9
Aug	6.8	4.5	1.4	.6
Sep	6.4	4.2	1.6	.7
Oct	5.1	3.3	.9	.3
Nov	4.3	2.4	.6	.1
Dec	3.2	1.2	.1	.0
Ann	75.7	46.0	14.3	5.0

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	.00	.01	.06	.11	.17	.24	.32	.43	.58	.84	1.09
Feb	.01	.05	.12	.19	.27	.37	.48	.62	.82	1.16	1.50
Mar	.05	.15	.34	.54	.75	1.00	1.29	1.66	2.17	3.02	3.86
Apr	.52	.72	1.04	1.32	1.60	1.90	2.23	2.63	3.15	3.97	4.74
May	1.02	1.39	1.95	2.45	2.93	3.45	4.01	4.69	5.56	6.94	8.24
Jun	1.11	1.46	1.98	2.42	2.85	3.29	3.78	4.36	5.10	6.26	7.33
Jul	.75	1.06	1.56	2.02	2.47	2.95	3.49	4.14	5.00	6.36	7.65
Aug	.48	.70	1.04	1.35	1.66	2.00	2.37	2.83	3.43	4.39	5.29
Sep	.21	.37	.69	1.03	1.40	1.82	2.31	2.94	3.80	5.24	6.66
Oct	.12	.23	.42	.63	.85	1.11	1.41	1.80	2.33	3.22	4.09
Nov	.05	.09	.19	.30	.42	.57	.74	.97	1.28	1.82	2.36
Dec	.00	.00	.05	.12	.18	.25	.33	.42	.56	.77	.99
Ann	13.49	15.15	17.34	19.04	20.59	22.10	23.69	25.48	27.67	30.92	33.78

\+ 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

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	5.4	4.5	2	#
Feb	5.8	4.8	3	1
Mar	7.7	6.5	1	#
Apr	3.1	1.0	#	#
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.1	.0	0	0
Oct	1.7	.0	#	0
Nov	5.7	5.3	1	#
Dec	5.5	4.0	2	#
Ann	35.0	26.1	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	10.0	1988	19	16.0	1979	17	1979	31	9	1979
Feb	10.0	1971	19	16.8	1978	17	1979	5	13	1988
Mar	9.0	1977	3	25.0	1977	17	1977	4	6	1977
Apr	8.0	1978	19	14.0	1988	22	1995	18	7	1995
May	#	1979	11	#+	1979	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	2.0	1984	25	2.0	1984	0	0	0	0	0
Oct	8.0	1995	23	15.0	1995	12	1995	23	1	1995
Nov	20.0	1972	2	21.0	1972	22	1972	2	8	1972
Dec	10.0	1987	27	17.0	1987	16+	1987	28	16	1985
Ann	20.0	Nov 1972	2	25.0	Mar 1977	22+	Apr 1995	18	16	Dec 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.3	1.8	.5	.2	@
Feb	2.7	2.1	.6	.3	@
Mar	2.9	2.3	1.1	.5	.0
Apr	1.1	1.1	.5	.2	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.1	.1	.0	.0	.0
Oct	.6	.6	.2	@	.0
Nov	2.1	1.6	.6	.2	.1
Dec	2.3	1.8	.6	.2	@
Ann	14.1	11.4	4.1	1.6	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	9.1	4.6	1.4	.0
Feb	7.8	5.1	2.8	1.0
Mar	5.8	3.5	2.2	.9
Apr	1.0	.6	.3	.1
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.5	.2	.2	.1
Nov	4.1	2.8	2.3	.3
Dec	8.3	4.1	1.8	.2
Ann	36.6	20.9	11.0	2.6

+ 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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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	5/25	5/20	5/17	5/15	5/12	5/09	5/07	5/04	4/29
32	5/16	5/12	5/08	5/06	5/03	5/01	4/28	4/25	4/20
28	5/07	5/03	4/30	4/27	4/25	4/22	4/19	4/16	4/12
24	4/28	4/22	4/18	4/15	4/12	4/09	4/06	4/02	3/28
20	4/14	4/10	4/07	4/05	4/02	3/31	3/28	3/25	3/21
16	4/12	4/07	4/03	3/31	3/28	3/25	3/21	3/18	3/12

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	9/12	9/15	9/18	9/20	9/23	9/25	9/27	9/30	10/03
32	9/15	9/21	9/25	9/29	10/02	10/05	10/09	10/13	10/19
28	9/23	9/29	10/03	10/07	10/10	10/13	10/17	10/21	10/27
24	10/06	10/10	10/14	10/17	10/19	10/22	10/25	10/28	11/02
20	10/13	10/18	10/22	10/26	10/29	11/01	11/04	11/08	11/14
16	10/24	10/29	11/02	11/06	11/09	11/12	11/15	11/19	11/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	150	144	140	136	133	129	126	121	115
32	173	166	160	155	151	147	142	136	129
28	189	182	176	172	168	164	159	154	147
24	209	203	198	193	190	186	181	177	170
20	231	223	218	213	209	205	200	194	187
16	247	239	234	229	225	221	216	211	204

***** 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	1406	1117	954	573	264	67	12	25	170	497	959	1301	7345
60	1251	977	799	429	154	23	1	6	88	345	809	1146	6028
57	1158	893	706	346	103	11	0	2	53	258	719	1053	5302
55	1097	842	645	295	76	6	0	1	36	205	663	991	4857
50	952	711	499	183	29	0	0	0	11	99	524	840	3848
32	468	306	109	7	0	0	0	0	0	1	149	363	1403

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	84	113	178	424	786	1062	1280	1226	892	528	180	85	6838
55	1	5	0	23	148	378	567	514	238	19	4	0	1897
57	0	0	0	14	113	323	505	453	196	10	0	0	1614
60	0	0	0	6	71	246	413	364	141	3	0	0	1244
65	0	0	0	1	26	139	269	228	72	0	0	0	735
70	0	0	0	0	7	65	148	121	30	0	0	0	371

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	8	28	87	247	559	843	1056	1005	675	333	76	13	8	36	123	370	929	1772	2828	3833	4508	4841	4917	4930
45	0	4	42	151	410	693	901	850	530	218	34	0	0	4	46	197	607	1300	2201	3051	3581	3799	3833	3833
50	0	0	15	88	273	543	746	695	391	122	11	0	0	0	15	103	376	919	1665	2360	2751	2873	2884	2884
55	0	0	3	44	160	398	591	540	267	58	0	0	0	0	3	47	207	605	1196	1736	2003	2061	2061	2061
60	0	0	0	17	78	261	442	389	161	19	0	0	0	0	0	17	95	356	798	1187	1348	1367	1367	1367
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	10	30	78	165	333	533	692	651	419	222	60	18	10	40	118	283	616	1149	1841	2492	2911	3133	3193	3211

(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:
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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