

Climatography of the United States

No. 20

1971-2000

Station: EDGELEY 3 WNW, ND

COOP ID: 322482

Climate Division: ND 9

NWS Call Sign:

Elevation: 1,558 Feet Lat: 46° 22N

Lon: 98° 46W

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	18.5	-7	8.9	58	1942	23	24.2	1990	-41	1912	12	-5.6	1982	1741	0	.0	.0	.3	24.0	30.9	16.3
Feb	25.1	6.2	15.7	67	1958	26	27.8	1987	-39+	1936	16	-.1	1979	1382	0	.0	.0	1.2	17.7	27.9	10.2
Mar	36.8	17.9	27.4	86	1910	23	35.2	2000	-26	1948	10	17.5	1996	1167	0	.0	.0	5.1	9.8	28.4	3.2
Apr	53.5	30.5	42.0	92	1934	29	49.9	1987	-7	1975	3	32.5	1975	690	1	.0	.1	19.7	1.4	17.4	.1
May	68.2	43.2	55.7	108	1934	30	64.1	1977	11	1907	3	48.9	1979	311	23	.0	.5	29.6	.0	2.9	.0
Jun	76.4	52.1	64.3	106	1933	18	73.7	1988	26+	1915	9	58.8	1982	107	85	@	1.8	30.0	.0	.0	.0
Jul	82.8	56.8	69.8	116	1936	6	74.2	1988	33+	1917	3	61.5	1992	39	187	.7	7.1	31.0	.0	.0	.0
Aug	81.8	54.8	68.3	109	1938	13	74.8	1983	31+	1964	13	62.6	1977	56	159	.7	6.6	31.0	.0	.0	.0
Sep	71.1	44.3	57.7	105	1931	7	63.4	1978	14	1942	26	52.2	1993	243	24	.2	1.5	29.4	.0	2.1	.0
Oct	57.7	32.6	45.2	94	1922	3	49.6	1973	-6	1919	26	41.3	1976	615	0	.0	.1	23.8	.5	13.9	.0
Nov	36.5	17.8	27.2	77	1950	1	38.4	1999	-27	1905	30	15.8	1985	1135	0	.0	.0	5.9	11.4	27.8	2.2
Dec	23.6	4.8	14.2	67	1939	6	25.1+	1999	-36+	1917	29	-1.3	1983	1574	0	.0	.0	.7	21.8	30.9	11.2
Ann	52.7	30.0	41.4	116	Jul 1936	6	74.8	Aug 1983	-41	Jan 1912	12	-5.6	Jan 1982	9060	479	1.6	17.7	207.7	86.6	182.2	43.2

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1901-2001

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

024-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: EDGELEY 3 WNW, ND

COOP ID: 322482

Climate Division: ND 9

NWS Call Sign:

Elevation: 1,558 Feet Lat: 46°22N

Lon: 98°46W

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	.61	.58	1.10	1950	24	1.66	1997	.05	1990	5.5	2.2	.2	.0	.09	.14	.22	.31	.40	.50	.61	.75	.93	1.24	1.53
Feb	.41	.39	1.35	1958	27	.92	1999	.08	1988	5.3	1.7	.1	.0	.08	.12	.18	.23	.29	.35	.41	.50	.60	.77	.93
Mar	1.16	1.06	2.59	1902	26	2.74	1977	.11	1971	6.3	2.9	.5	.1	.28	.39	.56	.71	.86	1.02	1.20	1.41	1.69	2.12	2.54
Apr	1.63	1.72	3.25	1932	23	4.92	1986	.00	1988	7.8	4.2	.8	.1	.19	.40	.67	.90	1.14	1.39	1.67	2.01	2.46	3.18	3.85
May	2.90	2.84	3.55	1923	19	6.55	1999	.40	1976	7.9	5.0	1.8	.9	.75	1.02	1.44	1.81	2.18	2.56	2.99	3.50	4.16	5.21	6.19
Jun	3.26	3.02	5.19	1932	17	7.22	1975	.93	1973	10.9	6.9	1.9	.6	1.02	1.33	1.79	2.19	2.57	2.96	3.40	3.91	4.56	5.59	6.53
Jul	2.18	1.82	3.63	1901	4	6.41	1994	.28	1976	9.3	5.1	1.4	.5	.45	.65	.97	1.26	1.56	1.87	2.23	2.65	3.22	4.12	4.97
Aug	2.87	2.86	3.18	1902	24	6.21	1998	.72	1996	8.4	4.9	1.2	.5	.98	1.25	1.64	1.98	2.30	2.63	3.00	3.42	3.96	4.80	5.57
Sep	1.80	1.18	4.38	1973	24	7.02	1973	.21	1974	6.1	4.0	1.0	.6	.15	.28	.52	.76	1.04	1.35	1.72	2.19	2.83	3.91	4.97
Oct	1.45	1.04	2.17	1971	2	5.45	1998	.10	1987	5.2	3.3	.9	.3	.08	.17	.34	.54	.76	1.02	1.34	1.75	2.32	3.30	4.27
Nov	.67	.42	1.25+	1956	3	2.50	2000	.00	1999	5.2	2.5	.4	@	.02	.07	.16	.25	.36	.48	.63	.81	1.07	1.51	1.94
Dec	.38	.36	.61	1901	6	1.05	1972	.04	1986	4.9	1.2	.0	.0	.05	.08	.13	.19	.24	.31	.38	.47	.59	.78	.97
Ann	19.32	18.09	5.19	Jun 1932	17	7.22	Jun 1975	.00+	Nov 1999	82.8	43.9	10.2	3.6	12.76	14.00	15.60	16.82	17.92	18.99	20.11	21.34	22.85	25.06	26.98

+ 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: 1901-2001

(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: EDGELEY 3 WNW, ND

COOP ID: 322482

Climate Division: ND 9

NWS Call Sign:

Elevation: 1,558 Feet

Lat: 46° 22N

Lon: 98° 46W

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	9.6	9.5	7	6	9.0	1993	13	21.2	1997	28	1997	28	23	1997	3.7	3.5	1.4	.7	.0	26.7	22.1	15.3	4.7
Feb	6.1	5.0	6	4	5.5	1998	18	12.0	1996	28	1997	16	23	1997	3.1	2.7	.9	.2	.0	21.9	17.9	9.3	2.6
Mar	7.9	8.0	3	1	12.0	1995	27	24.0	1995	23	1997	16	15	1997	2.8	2.7	1.1	.4	.1	13.8	8.9	5.4	.8
Apr	3.1	.8	1	#	8.0	1997	6	13.0+	1997	18	1975	9	6	1975	1.0	.8	.6	.3	.0	2.2	1.4	.6	.3
May	.3	.0	#	0	6.1	1991	4	6.1	1991	6	1991	4	1	1991	.1	.1	.1	.1	.0	.3	.2	.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	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.7	.0	#	0	5.0	1992	16	5.0	1992	5	1992	16	#+	1995	.3	.2	.1	.1	.0	.5	.2	.1	.0
Nov	5.4	4.1	2	1	8.0	1998	10	13.0+	1998	29	1993	27	4+	2000	2.3	2.1	1.0	.3	.0	9.4	4.7	2.5	.0
Dec	6.1	4.5	3	2	11.0	1988	27	16.5	1988	20	1993	1	11	1993	2.9	2.5	.6	.1	.1	16.9	7.8	4.5	.0
Ann	39.2	31.9	N/A	N/A	12.0	Mar 1995	27	24.0	Mar 1995	29	Nov 1993	27	23+	Feb 1997	16.2	14.6	5.8	2.2	.2	91.7	63.2	37.8	8.4

+ 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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No. 20 1971-2000

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Climate Division: ND 9

NWS Call Sign:

Elevation: 1,558 Feet

Lat: 46° 22N

Lon: 98° 46W

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	5/31	5/26	5/23	5/20	5/18	5/15	5/12	5/09	5/05
32	5/21	5/17	5/13	5/10	5/08	5/05	5/02	4/29	4/24
28	5/15	5/10	5/06	5/03	4/30	4/27	4/24	4/20	4/15
24	5/05	4/30	4/26	4/23	4/20	4/17	4/14	4/10	4/05
20	4/22	4/17	4/13	4/10	4/07	4/04	4/01	3/28	3/23
16	4/14	4/09	4/05	4/03	3/31	3/28	3/25	3/22	3/17
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	9/06	9/09	9/12	9/15	9/17	9/19	9/21	9/24	9/28
32	9/15	9/18	9/21	9/23	9/25	9/27	9/29	10/01	10/04
28	9/21	9/26	9/30	10/03	10/06	10/09	10/12	10/16	10/22
24	9/26	10/01	10/05	10/08	10/11	10/14	10/17	10/21	10/26
20	10/08	10/13	10/16	10/19	10/22	10/25	10/28	11/01	11/06
16	10/14	10/20	10/25	10/29	11/01	11/05	11/09	11/13	11/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	138	132	128	125	121	118	115	111	105
32	158	151	147	143	139	135	131	127	121
28	179	172	167	163	159	155	150	145	138
24	194	187	182	177	173	169	164	159	152
20	218	211	206	202	198	194	189	184	177
16	236	229	223	219	215	210	206	200	193

* 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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Station: EDGELEY 3 WNW, ND

COOP ID: 322482

Climate Division: ND 9 NWS Call Sign: Elevation: 1,558 Feet Lat: 46° 22N Lon: 98° 46W

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	1741	1382	1167	690	311	107	39	56	243	615	1135	1574	9060
60	1586	1242	1012	546	196	43	11	18	135	460	985	1419	7653
57	1493	1158	919	463	141	21	4	7	84	369	895	1326	6880
55	1431	1102	857	410	110	12	1	3	58	309	835	1264	6392
50	1276	962	705	289	52	2	0	0	17	178	688	1109	5278
32	754	511	247	37	0	0	0	0	0	6	247	597	2399

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	36	53	103	338	735	968	1171	1126	771	414	102	46	5863
55	0	0	0	21	131	291	458	416	139	4	0	0	1460
57	0	0	0	14	100	239	400	358	105	2	0	0	1218
60	0	0	0	7	63	171	314	276	66	0	0	0	897
65	0	0	0	1	23	85	187	159	24	0	0	0	479
70	0	0	0	0	6	30	97	77	6	0	0	0	216

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	20	176	530	754	952	913	562	234	23	0	0	0	20	196	726	1480	2432	3345	3907	4141	4164	4164
45	0	0	3	98	387	604	797	758	419	132	8	0	0	0	3	101	488	1092	1889	2647	3066	3198	3206	3206
50	0	0	0	48	252	456	642	603	284	62	0	0	0	0	0	48	300	756	1398	2001	2285	2347	2347	2347
55	0	0	0	20	143	312	487	449	173	24	0	0	0	0	0	20	163	475	962	1411	1584	1608	1608	1608
60	0	0	0	6	71	184	335	301	91	7	0	0	0	0	0	6	77	261	596	897	988	995	995	995
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	0	20	130	331	468	615	585	348	162	20	0	0	0	20	150	481	949	1564	2149	2497	2659	2679	2679

(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/normal/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