

Climatology of the United States

No. 20

1971-2000

Station: BRIDGEPORT, NE

COOP ID: 251145

Climate Division: NE 3

NWS Call Sign:

Elevation: 3,666 Feet Lat: 41°40N

Lon: 103°06W

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	38.4	15.4	26.9	75	1982	26	35.1	1990	-35+	1963	19	10.3	1979	1182	0	.0	.0	8.3	8.4	30.3	5.6
Feb	45.3	20.1	32.7	80	1962	11	40.5	1992	-47	1899	12	21.1	1978	904	0	.0	.0	12.8	4.5	26.8	3.0
Mar	53.8	26.8	40.3	88	1943	29	46.9	1986	-27	1948	11	35.3	1971	765	0	.0	.0	20.7	1.8	25.7	.6
Apr	63.8	34.3	49.1	95+	1992	30	56.1	1981	-11	1975	2	42.8	1983	480	1	.0	.2	26.2	.3	13.7	.1
May	73.7	45.2	59.5	98	2000	28	66.0	1994	15	1911	1	53.5	1995	205	33	.0	1.3	30.5	.0	1.8	.0
Jun	84.6	54.3	69.5	106+	1989	19	74.7	1994	28+	1969	2	64.6	1982	34	168	.6	9.8	30.0	.0	.0	.0
Jul	90.8	60.1	75.5	111	1902	15	79.8	2000	34+	1952	8	71.1	1992	1	325	2.8	18.9	31.0	.0	.0	.0
Aug	88.9	58.4	73.7	109	1898	21	79.1	2000	30	1910	25	68.7	1992	8	276	.9	17.0	31.0	.0	.0	.0
Sep	80.0	48.4	64.2	103	1899	1	70.1	1998	14	1908	27	59.6	1974	105	81	.1	5.6	29.7	.0	2.0	.0
Oct	67.3	35.9	51.6	97	1898	1	55.1	1974	-1+	1997	26	48.3	1976	416	0	.0	.1	28.9	.2	13.3	.1
Nov	49.6	24.8	37.2	81	1958	10	45.8	1999	-19	1916	13	27.3	2000	834	0	.0	.0	15.5	3.2	26.6	.9
Dec	40.7	17.0	28.9	74	1939	6	36.9	1980	-42	1989	22	15.3	1983	1121	0	.0	.0	8.9	6.6	30.2	3.9
Ann	64.7	36.7	50.8	111	Jul 1902	15	79.8	Jul 2000	-47	Feb 1899	12	10.3	Jan 1979	6055	884	4.4	52.9	273.5	25.0	170.4	14.2

+ 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: 1897-2001

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

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: BRIDGEPORT, NE

COOP ID: 251145

Climate Division: NE 3

NWS Call Sign:

Elevation: 3,666 Feet Lat: 41°40N

Lon: 103°06W

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	.37	.31	1.10	1939	9	1.51	1976	.00	1986	4.0	1.2	.1	@	.02	.05	.10	.15	.21	.28	.36	.45	.59	.81	1.03
Feb	.37	.21	1.02	1912	19	1.19	1987	.00+	1996	3.5	1.4	@	.0	.00	.00	.04	.09	.15	.22	.31	.44	.61	.92	1.23
Mar	.93	.85	1.20+	1983	5	2.26	1983	.09	1995	5.6	2.5	.5	.1	.12	.20	.33	.46	.60	.75	.92	1.14	1.43	1.90	2.36
Apr	1.69	1.60	1.80	2000	30	4.85	1999	.11	1992	7.5	4.0	1.1	.3	.29	.43	.68	.91	1.15	1.41	1.70	2.06	2.54	3.31	4.05
May	2.84	2.54	3.25	1978	28	6.17	1978	.99	1984	10.9	6.4	1.7	.6	.94	1.21	1.61	1.94	2.26	2.60	2.96	3.39	3.94	4.79	5.57
Jun	2.65	2.35	3.48	1911	16	6.37	1995	.44	2000	8.7	5.6	1.9	.5	.66	.91	1.30	1.64	1.98	2.33	2.73	3.20	3.81	4.79	5.70
Jul	2.44	2.16	3.15	1897	18	8.32	1982	.31	1989	7.7	4.9	1.6	.5	.57	.79	1.15	1.47	1.79	2.13	2.51	2.96	3.55	4.50	5.39
Aug	1.64	1.63	1.96	1955	5	4.29	1987	.24	1985	6.3	4.0	1.0	.2	.38	.53	.77	.98	1.20	1.43	1.68	1.99	2.39	3.03	3.63
Sep	1.52	1.30	3.34	1926	4	5.75	1973	.13	1983	5.8	3.5	1.0	.1	.16	.28	.49	.70	.93	1.18	1.48	1.85	2.36	3.19	4.01
Oct	.96	.72	2.91	1908	19	3.54	1998	.01	1999	4.8	2.6	.5	@	.06	.11	.23	.36	.50	.68	.89	1.16	1.53	2.18	2.82
Nov	.62	.52	1.67	1944	7	1.55	1998	.00	1997	3.9	1.8	.2	@	.04	.10	.20	.29	.38	.49	.61	.77	.98	1.32	1.65
Dec	.33	.29	1.70	1924	6	1.22	1978	.00	1991	3.7	1.0	.1	.0	.02	.05	.10	.15	.20	.26	.33	.41	.53	.71	.89
Ann	16.36	16.07	3.48	Jun 1911	16	8.32	Jul 1982	.00+	Nov 1997	72.4	38.9	9.7	2.3	10.08	11.23	12.74	13.90	14.96	15.99	17.07	18.27	19.75	21.94	23.85

+ 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: 1897-2001

(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: BRIDGEPORT, NE

COOP ID: 251145

Climate Division: NE 3

NWS Call Sign:

Elevation: 3,666 Feet

Lat: 41°40N

Lon: 103°06W

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	6.7	7.1	2	2	10.0	1976	1	18.0	1976	16	1988	9	8	1988	3.1	2.6	1.0	.4	@	11.8	7.6	4.2	1.0
Feb	5.5	3.8	1	#	9.0	1987	27	20.5	1987	19	1987	28	8	1993	2.7	2.3	.9	.1	.0	5.4	3.4	2.1	.4
Mar	7.3	5.0	1	#	12.0	1974	11	20.0+	1990	19	1987	1	2	1989	2.7	2.5	1.0	.4	.1	3.3	2.0	1.1	.3
Apr	3.7	2.0	#	#	16.0	1975	1	16.0	1975	16	1975	1	1	1984	1.1	.9	.4	.2	.1	.8	.4	.2	.1
May	.3	.0	#	0	5.0	1979	10	9.0	1979	#	1996	24	#	1996	.1	.1	.1	@	.0	.0	.0	.0	.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	.7	.0	#	0	9.0	1985	28	9.0	1985	9	1985	28	#+	2000	.2	.2	.1	.1	.0	.1	.1	@	.0
Oct	1.8	.0	#	0	6.0	1973	11	7.0+	1990	6	1997	25	#+	1997	.6	.6	.3	.1	.0	.5	.2	@	.0
Nov	6.3	4.5	1	#	10.0	1972	1	23.0	1985	15	1985	15	6	1985	2.3	2.0	.8	.5	@	4.4	2.7	1.9	.5
Dec	6.4	5.5	2	1	14.0	1978	2	18.0	1978	19	1987	28	9	1985	2.7	2.5	.8	.4	.1	8.8	5.4	3.3	.8
Ann	38.7	27.9	N/A	N/A	16.0	Apr 1975	1	23.0	Nov 1985	19+	Dec 1987	28	9	Dec 1985	15.5	13.7	5.4	2.2	.3	35.1	21.8	12.8	3.1

+ 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

Station: **BRIDGEPORT, NE**

COOP ID: 251145

Climate Division: **NE 3**

NWS Call Sign:

Elevation: **3,666 Feet**

Lat: **41° 40N**

Lon: **103° 06W**

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	6/09	6/03	5/29	5/25	5/21	5/18	5/14	5/09	5/03
32	5/19	5/15	5/12	5/10	5/08	5/06	5/04	5/01	4/27
28	5/10	5/05	5/02	4/30	4/27	4/25	4/22	4/19	4/14
24	5/03	4/27	4/23	4/19	4/16	4/13	4/10	4/06	3/31
20	4/29	4/22	4/17	4/12	4/08	4/04	3/31	3/26	3/19
16	4/17	4/09	4/03	3/29	3/24	3/20	3/15	3/09	3/01
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	9/09	9/13	9/15	9/18	9/20	9/22	9/24	9/26	9/30
32	9/14	9/18	9/21	9/23	9/25	9/27	9/30	10/02	10/06
28	9/20	9/24	9/28	10/01	10/03	10/06	10/09	10/12	10/17
24	10/02	10/06	10/10	10/13	10/16	10/19	10/22	10/26	10/30
20	10/06	10/12	10/17	10/21	10/24	10/28	11/01	11/05	11/11
16	10/13	10/20	10/25	10/29	11/02	11/05	11/10	11/14	11/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	141	134	129	124	120	116	112	107	99
32	155	150	146	143	140	136	133	129	124
28	177	171	166	162	159	155	151	147	140
24	204	197	191	186	182	178	173	168	160
20	227	217	210	204	198	192	186	179	169
16	253	242	235	228	222	216	209	201	190

* 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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Climate Division: NE 3 NWS Call Sign: Elevation: 3,666 Feet Lat: 41°40N Lon: 103°06W

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	1182	904	765	480	205	34	1	8	105	416	834	1121	6055
60	1027	764	610	338	106	8	0	1	39	265	684	966	4808
57	934	680	518	260	65	3	0	0	17	182	594	873	4126
55	872	627	457	213	44	1	0	0	9	134	539	811	3707
50	727	497	316	116	13	0	0	0	0	51	401	661	2782
32	273	140	26	1	0	0	0	0	0	0	76	214	730

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	114	160	284	512	851	1124	1347	1291	966	607	232	116	7604
55	0	3	2	35	182	435	634	578	285	29	5	0	2188
57	0	0	0	22	141	376	572	516	234	14	0	0	1875
60	0	0	0	10	90	292	479	424	165	4	0	0	1464
65	0	0	0	1	33	168	325	276	81	0	0	0	884
70	0	0	0	0	8	77	181	149	31	0	0	0	446

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	11	37	123	294	600	885	1104	1045	711	362	75	16	11	48	171	465	1065	1950	3054	4099	4810	5172	5247	5263
45	1	7	52	179	447	735	949	890	563	230	29	1	1	8	60	239	686	1421	2370	3260	3823	4053	4082	4083
50	0	0	12	97	306	585	794	735	421	121	4	0	0	0	12	109	415	1000	1794	2529	2950	3071	3075	3075
55	0	0	1	43	182	436	639	580	291	48	0	0	0	0	1	44	226	662	1301	1881	2172	2220	2220	2220
60	0	0	0	15	89	293	485	425	174	11	0	0	0	0	0	15	104	397	882	1307	1481	1492	1492	1492
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	26	60	132	230	383	560	701	665	469	295	88	39	26	86	218	448	831	1391	2092	2757	3226	3521	3609	3648

(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