

Climatography of the United States

No. 20

1971-2000

Station: CREIGHTON, NE

COOP ID: 251990

Climate Division: NE 3

NWS Call Sign:

Elevation: 1,630 Feet Lat: 42° 28N

Lon: 97° 54W

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	32.1	10.5	21.3	73	1981	24	33.6	1992	-30	1970	19	6.5	1979	1354	0	.0	.0	3.2	15.1	30.4	7.7
Feb	39.0	16.9	28.0	78	1995	21	37.2	1991	-36	1962	28	13.3	1978	1039	0	.0	.0	7.2	10.2	25.5	4.2
Mar	50.4	26.1	38.3	89	1968	30	44.2	2000	-24	1960	4	29.9	1998	830	0	.0	.0	15.4	3.6	22.6	.7
Apr	63.5	37.2	50.4	95	1965	30	59.8	1981	-1	1975	3	43.3	1983	448	8	.0	.6	25.4	.3	9.6	@
May	74.1	48.9	61.5	105	1967	25	67.7	1977	22	1976	3	56.8	1995	164	55	.0	.8	30.8	.0	.9	.0
Jun	84.2	58.4	71.3	107+	1988	23	77.7	1988	36	1956	1	66.7	1982	23	213	.4	7.5	30.0	.0	.0	.0
Jul	88.5	63.2	75.9	106+	1960	11	80.2	1974	39	1971	30	68.7	1992	4	340	1.2	13.6	31.0	.0	.0	.0
Aug	86.8	60.8	73.8	106	2000	31	79.7	1983	40+	1986	28	68.6	1992	14	287	.7	11.1	31.0	.0	.0	.0
Sep	78.9	51.0	65.0	103	1970	6	71.0	1998	24	1974	30	60.2	1993	96	94	.1	4.0	29.9	.0	1.2	.0
Oct	66.0	39.2	52.6	95	1963	1	56.8	1975	9	1972	19	46.3	1976	387	3	.0	.3	28.1	.2	7.5	.0
Nov	46.1	25.6	35.9	80	1999	8	46.5	1999	-24	1959	14	23.8	1985	875	0	.0	.0	11.9	4.7	22.5	.6
Dec	34.8	14.5	24.7	68+	1998	2	33.1	1979	-31	1989	22	5.9	1983	1251	0	.0	.0	4.2	12.4	29.7	4.9
Ann	62.0	37.7	49.9	107+	Jun 1988	23	80.2	Jul 1974	-36	Feb 1962	28	5.9	Dec 1983	6485	1000	2.4	37.9	248.1	46.5	149.9	18.1

+ 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: 1948-2001

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

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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: CREIGHTON, NE

COOP ID: 251990

Climate Division: NE 3

NWS Call Sign:

Elevation: 1,630 Feet Lat: 42°28N

Lon: 97°54W

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	.53	.43	.80	1973	21	1.49	1975	.01	1981	4.5	1.6	.2	.0	.06	.09	.17	.24	.32	.41	.52	.65	.83	1.13	1.43
Feb	.64	.44	1.63	1971	19	2.57	1971	.00	1982	5.4	1.9	.2	.1	.03	.08	.18	.27	.37	.48	.62	.78	1.01	1.40	1.77
Mar	1.82	1.39	2.75	1987	17	6.99	1987	.14	1994	7.2	4.0	1.2	.4	.19	.32	.57	.82	1.10	1.41	1.77	2.22	2.84	3.87	4.88
Apr	2.67	2.55	2.91	2001	23	6.77	1999	.01	1981	8.4	5.5	1.8	.5	.28	.47	.84	1.21	1.61	2.07	2.60	3.26	4.16	5.66	7.12
May	3.88	3.65	3.28	1992	16	8.79	1982	1.07	1994	10.2	7.4	2.6	1.0	1.49	1.85	2.37	2.80	3.20	3.62	4.07	4.58	5.24	6.26	7.18
Jun	3.73	3.41	6.45	1957	16	9.75	1999	.65	1978	9.2	6.3	2.7	.9	1.02	1.38	1.92	2.38	2.84	3.33	3.86	4.49	5.31	6.60	7.80
Jul	3.24	3.04	3.77	1994	13	8.26	1993	.68	1975	7.9	5.7	2.2	.7	.76	1.07	1.54	1.97	2.39	2.83	3.33	3.93	4.71	5.95	7.12
Aug	3.15	2.66	7.38	1995	22	10.99	1995	.31	1983	7.2	4.8	1.8	.8	.42	.67	1.12	1.56	2.02	2.53	3.12	3.85	4.83	6.43	7.99
Sep	2.25	1.82	3.05	1949	10	7.18	1973	.00	1999	6.1	4.2	1.6	.8	.24	.52	.89	1.22	1.55	1.90	2.30	2.78	3.42	4.44	5.42
Oct	1.76	1.40	3.15	1950	1	6.05	1998	.06	1996	5.1	3.5	1.2	.4	.10	.21	.42	.66	.93	1.25	1.63	2.13	2.82	4.00	5.17
Nov	1.36	1.21	1.81	1977	9	3.90	1975	.02+	1989	5.5	2.8	.9	.3	.06	.13	.28	.46	.67	.92	1.23	1.63	2.20	3.18	4.16
Dec	.61	.47	2.00	1997	22	2.18	1982	.10	1986	5.1	2.1	.2	@	.10	.15	.24	.33	.41	.51	.62	.75	.93	1.22	1.49
Ann	25.64	25.09	7.38	Aug 1995	22	10.99	Aug 1995	.00+	Sep 1999	81.8	49.8	16.6	5.9	16.23	17.97	20.25	22.01	23.59	25.13	26.75	28.55	30.75	34.00	36.83

+ 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

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

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Station: CREIGHTON, NE

COOP ID: 251990

Climate Division: NE 3

NWS Call Sign:

Elevation: 1,630 Feet

Lat: 42° 28N

Lon: 97° 54W

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	2.0	2.0	2	#	12.0	1982	22	12.0+	1982	15	1983	1	10	1979	1.6	1.4	.3	.1	.0	-9.9	-9.9	-9.9	-9.9
Feb	6.7	3.0	3	#	8.0	1989	20	17.0	1999	18	1984	19	11	1984	2.1	1.4	.6	.2	.0	5.6	2.7	1.9	.4
Mar	5.5	3.0	1	#	9.0	1983	26	15.1	1983	12	1998	11	5+	1998	1.6	1.5	.6	.2	.0	1.6	.9	.4	.0
Apr	1.3	.0	#	0	11.0	1994	12	11.5	1997	9	1997	12	1	1997	.4	.4	.3	.1	@	.6	.3	.2	.0
May	#	.0	#	0	#	1997	12	#+	1997	#	1997	12	#	1997	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.3	.0	#	0	5.0	1991	31	6.0	1991	5+	1991	31	#+	1991	.1	.1	@	@	.0	@	@	@	.0
Nov	1.8	.1	#	0	16.0	1983	28	16.0	1983	16	1983	30	3	1979	1.4	1.1	.6	.3	.1	.5	.4	.2	.1
Dec	5.8	2.3	2	#	7.5	1981	1	15.5	1981	16	1983	1	14	1983	2.3	1.9	.7	.2	.0	-9.9	-9.9	-9.9	-9.9
Ann	23.4	10.4	N/A	N/A	16.0	Nov 1983	28	17.0	Feb 1999	18	Feb 1984	19	14	Dec 1983	9.5	7.8	3.1	1.1	.1	-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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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	5/22	5/17	5/14	5/11	5/09	5/06	5/03	4/30	4/26
32	5/13	5/08	5/05	5/02	4/30	4/27	4/24	4/21	4/16
28	5/04	4/30	4/27	4/24	4/21	4/19	4/16	4/12	4/08
24	4/23	4/18	4/14	4/11	4/08	4/05	4/02	3/29	3/24
20	4/13	4/08	4/05	4/02	3/31	3/28	3/25	3/22	3/18
16	4/05	3/31	3/27	3/24	3/21	3/19	3/15	3/12	3/07
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	9/11	9/15	9/18	9/21	9/23	9/26	9/28	10/01	10/05
32	9/14	9/20	9/24	9/27	9/30	10/03	10/06	10/10	10/15
28	9/25	9/30	10/04	10/08	10/11	10/14	10/17	10/21	10/27
24	10/08	10/13	10/17	10/19	10/22	10/25	10/28	10/31	11/05
20	10/15	10/21	10/25	10/29	11/01	11/05	11/08	11/13	11/18
16	10/19	10/26	10/31	11/04	11/08	11/12	11/16	11/21	11/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	156	149	145	141	137	133	129	125	118
32	173	166	161	157	153	149	144	139	132
28	191	185	180	176	172	168	164	159	153
24	218	211	205	201	196	192	187	182	175
20	237	229	224	219	215	210	206	200	193
16	259	249	242	236	231	225	219	213	203

* 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	1354	1039	830	448	164	23	4	14	96	387	875	1251	6485
60	1199	899	675	316	81	5	0	2	36	246	725	1096	5280
57	1106	822	585	246	48	1	0	0	17	175	639	1003	4642
55	1045	770	528	204	32	0	0	0	9	134	584	941	4247
50	901	640	387	118	9	0	0	0	1	62	447	797	3362
32	422	263	66	3	0	0	0	0	0	1	110	332	1197

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	91	148	259	553	915	1180	1359	1296	988	640	224	104	7757
55	1	12	8	64	233	490	646	583	307	60	8	0	2412
57	0	8	3	46	187	431	584	521	255	39	4	0	2078
60	0	0	0	26	127	345	491	430	185	17	0	0	1621
65	0	0	0	8	55	213	340	287	94	3	0	0	1000
70	0	0	0	1	17	111	201	165	38	0	0	0	533

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	4	31	119	338	667	942	1109	1052	746	410	89	8	4	35	154	492	1159	2101	3210	4262	5008	5418	5507	5515
45	0	8	62	220	513	792	954	897	596	278	39	2	0	8	70	290	803	1595	2549	3446	4042	4320	4359	4361
50	0	2	27	127	366	642	799	742	452	166	14	0	0	2	29	156	522	1164	1963	2705	3157	3323	3337	3337
55	0	0	7	68	234	492	644	587	317	82	2	0	0	0	7	75	309	801	1445	2032	2349	2431	2433	2433
60	0	0	2	33	131	351	489	433	201	32	0	0	0	0	2	35	166	517	1006	1439	1640	1672	1672	1672
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	10	32	94	223	418	617	740	695	486	270	61	11	10	42	136	359	777	1394	2134	2829	3315	3585	3646	3657

(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