

Climatology of the United States

No. 20

1971-2000

Station: HAIGLER, NE

COOP ID: 253515

Climate Division: NE 7

NWS Call Sign:

Elevation: 3,275 Feet Lat: 40°01N

Lon: 101°56W

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	.0	.0	.0	69+	1999	19	.0	0	-22	1997	13	.0	0	0	0	.0	.0	8.5	7.4	30.9	4.0
Feb	.0	.0	.0	78+	1999	15	.0	0	-6	1997	8	.0	0	0	0	.0	.0	12.7	4.9	27.7	2.2
Mar	.0	.0	.0	85+	1998	27	.0	0	-1	1950	19	.0	0	0	0	.0	.0	19.3	2.2	25.5	.5
Apr	.0	.0	.0	93	1949	24	.0	0	12	1949	2	.0	0	0	0	.0	.5	26.0	.3	13.0	.0
May	.0	.0	.0	100	2000	30	.0	0	23	1997	3	.0	0	0	0	@	.9	30.6	.0	1.2	.0
Jun	.0	.0	.0	103	2000	8	.0	0	32	1998	6	.0	0	0	0	1.1	9.4	29.9	.0	@	.0
Jul	.0	.0	.0	106	1998	21	.0	0	46	1997	4	.0	0	0	0	3.6	18.4	31.0	.0	.0	.0
Aug	.0	.0	.0	104	2001	6	.0	0	49	2001	10	.0	0	0	0	1.0	16.0	31.0	.0	.0	.0
Sep	.0	.0	.0	101	2000	7	.0	0	22	2000	24	.0	0	0	0	.2	7.0	29.5	.0	1.1	.0
Oct	.0	.0	.0	94	1997	3	.0	0	7	1997	26	.0	0	0	0	.0	.6	28.8	.2	7.7	.0
Nov	.0	.0	.0	82+	2001	1	.0	0	-3+	2001	29	.0	0	0	0	.0	.0	17.3	2.6	25.7	.4
Dec	.0	.0	.0	70	1998	18	.0	0	-17	1998	22	.0	0	0	0	.0	.0	10.6	5.7	30.7	2.4
Ann	.0	.0	.0	106	Jul 1998	21	-99.9	0	-22	Jan 1997	13	99.9	0	0	0	5.9	52.8	275.2	23.3	163.5	9.5

+ 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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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: HAIGLER, NE

COOP ID: 253515

Climate Division: NE 7

NWS Call Sign:

Elevation: 3,275 Feet Lat: 40°01N

Lon: 101°56W

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	.43	.27	1.13	1990	20	1.77	1992	.00+	1999	3.0	1.2	.2	.1	.00	.01	.06	.12	.19	.28	.38	.52	.71	1.05	1.39
Feb	.39	.26	1.20	1951	20	1.44	1987	.00	1972	3.7	1.3	.1	.0	.01	.03	.08	.14	.20	.27	.36	.47	.63	.90	1.16
Mar	1.20	.96	1.72	1980	28	4.31	1981	.02	1994	5.8	3.1	.6	.2	.07	.14	.28	.45	.63	.85	1.11	1.44	1.92	2.72	3.52
Apr	1.94	1.69	2.32	1981	20	5.36	1984	.06	1992	6.7	4.5	1.2	.3	.44	.62	.90	1.16	1.42	1.69	1.99	2.36	2.84	3.60	4.32
May	3.03	2.85	2.25	1996	25	6.52	1988	.18	2000	9.2	6.4	2.0	.7	.57	.84	1.28	1.69	2.11	2.56	3.07	3.69	4.51	5.82	7.08
Jun	2.74	2.68	3.65	1981	29	5.13	1989	.46	1985	7.8	5.3	1.8	.8	.69	.95	1.35	1.70	2.05	2.42	2.83	3.32	3.95	4.96	5.90
Jul	2.96	2.91	3.97	1966	29	5.49	1973	.56	1984	8.0	5.6	2.0	.9	.71	.99	1.42	1.80	2.19	2.59	3.05	3.59	4.30	5.42	6.47
Aug	2.01	1.60	2.80	1965	20	9.08	1999	.02	1973	6.1	4.1	1.3	.5	.18	.32	.58	.86	1.17	1.51	1.93	2.44	3.16	4.35	5.51
Sep	1.30	1.26	2.39	1963	21	3.34	1973	.01	1975	5.4	3.2	.7	.2	.08	.16	.32	.50	.70	.93	1.21	1.57	2.07	2.93	3.77
Oct	1.03	.95	1.57	1997	26	3.11	1997	.00	1977	4.0	2.3	.6	.2	.01	.06	.17	.30	.47	.66	.91	1.23	1.69	2.48	3.29
Nov	.76	.73	1.70	1974	4	2.38	1972	.00	1989	3.7	2.2	.4	.1	.03	.10	.21	.32	.44	.57	.73	.93	1.21	1.66	2.11
Dec	.38	.30	.75	1982	25	1.27	1982	.00+	1976	3.0	1.2	.2	.0	.00	.02	.07	.13	.19	.27	.35	.47	.62	.89	1.15
Ann	18.17	17.47	3.97	Jul 1966	29	9.08	Aug 1999	.00+	Jan 1999	66.4	40.4	11.1	4.0	12.32	13.43	14.86	15.96	16.94	17.89	18.87	19.96	21.30	23.24	24.92

+ 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

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Station: HAIGLER, NE

COOP ID: 253515

Climate Division: NE 7

NWS Call Sign:

Elevation: 3,275 Feet

Lat: 40°01N

Lon: 101°56W

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	5.7	5.3	1	1	11.0	1990	20	23.5	1985	14	1994	27	7	1984	1.8	1.4	.6	.2	.1	2.5	1.4	.7	.1
Feb	2.7	2.3	1	#	8.0	1980	8	9.0	1980	8+	1993	19	5	1993	1.5	1.1	.4	.1	.0	1.4	.0	.0	.0
Mar	6.0	2.8	1	#	18.0	1981	7	26.0	1980	24	1980	29	7	1984	1.3	.9	.4	.2	.2	1.2	.7	.6	.4
Apr	.7	.0	#	#	6.0	1973	8	6.0	1973	16	1980	3	4	1980	.2	.1	.1	@	.0	.2	.1	.1	.0
May	.0	.0	#	0	.0	0	0	.0	0	2	1978	6	#	1978	.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	#	1997	30	#	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	#	0	.6	2000	24	.6	2000	5+	1995	20	#+	2000	@	.0	.0	.0	.0	@	.0	.0	.0
Oct	.8	.0	#	0	12.0	1976	27	12.0	1976	13	1991	31	1	1997	.2	.2	.1	.1	.1	.3	.2	.1	.1
Nov	3.0	2.5	1	#	8.0	1990	3	13.0	1990	14	1983	28	6	1972	.8	.5	.3	.1	.0	1.4	.3	.1	.0
Dec	3.2	1.5	1	#	12.0	1987	27	16.0	1973	15	1982	28	5	1972	1.5	.8	.2	.2	.1	1.9	.9	.4	.2
Ann	22.1	14.4	N/A	N/A	18.0	Mar 1981	7	26.0	Mar 1980	24	Mar 1980	29	7+	Mar 1984	7.3	5.0	2.1	.9	.5	8.9	3.6	2.0	.8

+ 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: HAIGLER, NE

COOP ID: 253515

Climate Division: NE 7

NWS Call Sign:

Elevation: 3,275 Feet

Lat: 40° 01N

Lon: 101° 56W

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	5/23	5/19	5/16	5/14	5/12	5/10	5/07	5/04	5/01
32	5/19	5/15	5/11	5/08	5/05	5/02	4/29	4/26	4/21
28	5/07	5/03	4/29	4/26	4/24	4/21	4/18	4/15	4/10
24	4/25	4/20	4/17	4/14	4/11	4/08	4/05	4/01	3/27
20	4/15	4/09	4/04	3/31	3/28	3/24	3/20	3/16	3/09
16	4/03	3/28	3/24	3/20	3/16	3/13	3/09	3/05	2/27
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	9/14	9/19	9/22	9/24	9/27	9/29	10/02	10/05	10/09
32	9/18	9/24	9/28	10/02	10/05	10/09	10/13	10/17	10/23
28	9/30	10/05	10/09	10/12	10/15	10/18	10/22	10/25	10/31
24	10/06	10/12	10/16	10/19	10/23	10/26	10/30	11/03	11/09
20	10/19	10/25	10/28	10/31	11/03	11/06	11/09	11/13	11/18
16	10/28	11/03	11/07	11/11	11/14	11/17	11/21	11/25	12/01
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	153	148	144	140	137	134	131	127	121
32	173	166	161	157	153	148	144	139	132
28	191	185	181	177	174	170	167	163	157
24	218	210	204	199	194	190	185	179	171
20	245	236	230	225	220	215	210	204	195
16	263	256	251	246	242	238	233	228	221

* 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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Climate Division: NE 7 NWS Call Sign: Elevation: 3,275 Feet Lat: 40°01N Lon: 101°56W

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	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	10	45	130	319	610	912	1127	1052	753	425	101	21	10	55	185	504	1114	2026	3153	4205	4958	5383	5484	5505
45	0	14	62	206	459	762	972	897	608	291	47	2	0	14	76	282	741	1503	2475	3372	3980	4271	4318	4320
50	0	1	21	116	314	612	817	742	461	173	8	0	0	1	22	138	452	1064	1881	2623	3084	3257	3265	3265
55	0	0	2	51	183	464	662	587	324	83	0	0	0	0	2	53	236	700	1362	1949	2273	2356	2356	2356
60	0	0	0	18	91	320	507	433	208	27	0	0	0	0	0	18	109	429	936	1369	1577	1604	1604	1604
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	30	72	131	245	385	580	723	671	482	310	113	42	30	102	233	478	863	1443	2166	2837	3319	3629	3742	3784

(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