

# Climatology of the United States

## No. 20

### 1971-2000

**Station: LINCOLN AP, NE**

**COOP ID: 254795**

**Climate Division: NE 6**

**NWS Call Sign: LNK**

**Elevation: 1,170 Feet Lat: 40° 50N**

**Lon: 96° 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	33.2	11.5	22.4	73	1990	10	33.8	1992	-33	1974	12	7.7	1979	1328	0	.0	.0	3.9	14.4	30.4	6.8
Feb	39.3	17.2	28.3	77	1995	25	37.3	1999	-24+	1979	1	13.3	1979	1043	0	.0	.0	7.8	10.0	25.8	3.2
Mar	51.2	27.5	39.4	89+	1986	29	45.3	1986	-19	1978	4	30.7	1975	799	1	.0	.0	16.8	2.9	21.2	.6
Apr	63.5	38.8	51.2	97	1989	26	58.8	1981	3	1975	3	45.1	1997	425	13	.0	.4	26.2	.1	7.6	.0
May	73.8	50.1	62.0	99	1989	29	68.5	1977	24	1994	1	56.7	1995	154	56	.0	1.1	30.9	.0	.7	.0
Jun	84.9	60.4	72.7	107	1988	21	77.7	1988	39	1978	8	67.0	1982	16	244	.8	7.7	30.0	.0	.0	.0
Jul	89.6	65.9	77.8	108+	1995	12	84.3	1974	45	1995	1	72.6	1994	1	390	2.7	14.7	31.0	.0	.0	.0
Aug	87.1	63.7	75.4	107	1983	16	84.0	1983	39	1950	20	70.0	1992	5	315	1.4	11.6	31.0	.0	.0	.0
Sep	78.8	53.2	66.0	106	2000	2	71.3	1998	26	1984	29	59.9	1993	100	123	.1	4.1	29.9	.0	.4	.0
Oct	66.5	40.4	53.5	93+	1975	12	57.7	1975	8	1997	27	47.7	1976	377	12	.0	.3	28.6	.1	6.0	.0
Nov	49.1	27.0	38.1	85	1999	13	46.7	1999	-5	1976	29	29.5	1985	806	0	.0	.0	14.6	3.0	22.1	.2
Dec	36.8	16.2	26.5	70	1998	1	33.2	1991	-27	1983	22	8.7	1983	1188	0	.0	.0	4.9	11.0	29.7	3.4
Ann	62.8	39.3	51.1	108+	1995	12	84.3	1974	-33	1974	12	7.7	1979	6242	1154	5.0	39.9	255.6	41.5	143.9	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](http://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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### 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	Median	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	.67	.60	1.40	1949	3	1.59	1975	.00	1986	5.6	2.1	.2	@	.05	.12	.23	.33	.43	.54	.67	.83	1.04	1.38	1.71	
Feb	.66	.59	1.71	1951	28	1.63	1971	.06	1996	5.6	2.0	.1	@	.08	.13	.22	.31	.41	.52	.65	.80	1.01	1.36	1.70	
Mar	2.21	1.93	1.80	1979	18	6.65	1973	.06	1994	8.4	4.8	1.5	.4	.22	.38	.68	.99	1.32	1.70	2.14	2.69	3.45	4.70	5.92	
Apr	2.90	2.62	2.34	1974	28	7.21	1978	.26	1989	9.0	5.3	1.8	.5	.70	.97	1.40	1.77	2.15	2.54	2.98	3.51	4.19	5.28	6.30	
May	4.23	4.00	2.64+	2001	20	10.09	1996	.91	1989	12.0	7.2	3.0	1.2	1.45	1.85	2.43	2.92	3.40	3.89	4.42	5.04	5.83	7.07	8.20	
Jun	3.51	3.52	4.24	1985	23	7.67	1983	.63	1976	9.0	5.7	2.3	.9	.67	.99	1.50	1.98	2.46	2.98	3.56	4.27	5.21	6.72	8.15	
Jul	3.54	3.16	5.42	1990	25	12.50	1993	.37	1983	9.3	5.7	2.4	.8	.67	.99	1.51	1.99	2.48	3.00	3.60	4.32	5.27	6.81	8.26	
Aug	3.35	2.89	2.94	1982	12	8.57	1982	.07	1976	8.7	4.9	2.4	1.2	.49	.77	1.26	1.72	2.20	2.73	3.34	4.09	5.09	6.73	8.30	
Sep	2.92	2.58	4.68	1989	8	8.28	1989	.29	1974	7.7	5.2	1.8	.8	.39	.63	1.05	1.45	1.88	2.35	2.90	3.57	4.48	5.97	7.40	
Oct	1.94	1.63	4.07	1979	30	5.40	1986	.01	1975	6.3	3.8	1.3	.5	.09	.19	.41	.67	.97	1.33	1.76	2.33	3.13	4.50	5.88	
Nov	1.58	1.26	2.34	1997	29	3.81	1981	.01	1989	6.3	3.2	.9	.4	.10	.19	.38	.59	.84	1.12	1.46	1.90	2.52	3.57	4.60	
Dec	.86	.68	2.13	1984	15	3.42	1984	.04	1976	5.7	2.3	.5	@	.12	.19	.31	.43	.56	.69	.86	1.05	1.32	1.76	2.19	
Ann	28.37	27.14	5.42	Jul 1990	25	12.50	Jul 1993	.00	Jan 1986	93.6	52.2	18.2	6.7	18.24	20.13	22.58	24.47	26.17	27.82	29.55	31.47	33.82	37.27	40.29	

+ 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:  
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NWS Call Sign: LNK

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Lat: 40° 50N

Lon: 96° 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	5.8	4.7	2	1	8.0	1975	10	14.6	1975	18+	1974	13	9	1974	5.5	2.0	.4	.1	.0	15.2	8.1	4.6	1.0
Feb	4.7	4.4	1	1	7.0	2000	18	13.8	1978	13	1978	14	7	1978	3.8	1.7	.4	.1	.0	10.9	6.5	3.5	.4
Mar	4.7	4.4	1	1	8.3	1977	19	17.0	1984	12	1998	9	3+	1998	2.9	1.5	.5	.2	.0	4.8	2.4	1.4	.1
Apr	1.8	.3	#	0	6.4	1992	20	11.1	1997	7	1997	12	1	1997	1.1	.5	.2	.1	.0	.6	.2	@	.0
May	#	.0	#	0	#	1994	1	#	1994	0	0	0	#	2000	.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	.8	1985	29	.8	1985	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.3	.0	#	0	3.3	1980	27	3.3	1980	10	1997	26	1	1997	.2	.1	@	.0	.0	.2	.1	.1	@
Nov	2.8	1.9	#	0	7.7	1972	13	8.8	1991	8+	1991	8	2	1991	2.4	1.0	.3	.1	.0	2.9	1.3	.6	.0
Dec	5.7	4.1	1	0	9.7	1973	18	19.8	1973	16	1983	28	10	1983	4.3	1.8	.5	.2	.0	9.2	4.6	3.1	1.2
Ann	25.8	19.8	N/A	N/A	9.7	Dec 1973	18	19.8	Dec 1973	18+	Jan 1974	13	10	Dec 1983	20.2	8.6	2.3	.8	.0	43.8	23.2	13.3	2.7

+ 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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<b>Freeze Data</b>									
<b>Spring Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of later date in spring (thru Jul 31) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	5/15	5/11	5/08	5/06	5/04	5/02	4/29	4/27	4/23
<b>32</b>	5/12	5/07	5/03	4/30	4/27	4/24	4/21	4/18	4/13
<b>28</b>	4/29	4/25	4/21	4/18	4/16	4/13	4/10	4/06	4/02
<b>24</b>	4/17	4/12	4/08	4/05	4/03	3/31	3/28	3/24	3/20
<b>20</b>	4/09	4/04	3/31	3/28	3/25	3/22	3/19	3/16	3/11
<b>16</b>	4/01	3/26	3/21	3/18	3/14	3/10	3/07	3/02	2/24
<b>Fall Freeze Dates (Month/Day)</b>									
<b>Temp (F)</b>	<b>Probability of earlier date in fall (beginning Aug 1) than indicated(*)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	9/14	9/19	9/22	9/25	9/28	9/30	10/03	10/06	10/11
<b>32</b>	9/21	9/27	9/30	10/03	10/06	10/09	10/13	10/16	10/21
<b>28</b>	10/02	10/07	10/11	10/15	10/18	10/21	10/24	10/28	11/03
<b>24</b>	10/15	10/20	10/24	10/27	10/31	11/03	11/06	11/10	11/15
<b>20</b>	10/18	10/24	10/29	11/02	11/05	11/09	11/13	11/17	11/24
<b>16</b>	10/29	11/05	11/11	11/15	11/19	11/23	11/28	12/03	12/10
<b>Freeze Free Period</b>									
<b>Temp (F)</b>	<b>Probability of longer than indicated freeze free period (Days)</b>								
	<b>.10</b>	<b>.20</b>	<b>.30</b>	<b>.40</b>	<b>.50</b>	<b>.60</b>	<b>.70</b>	<b>.80</b>	<b>.90</b>
<b>36</b>	164	158	153	150	146	142	139	134	128
<b>32</b>	179	173	168	165	161	158	154	150	144
<b>28</b>	202	196	192	188	184	181	177	173	167
<b>24</b>	232	225	219	215	210	206	201	196	188
<b>20</b>	250	241	235	229	225	220	214	208	199
<b>16</b>	280	269	262	255	249	243	237	230	219

\* 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
65	1328	1043	799	425	154	16	1	5	100	377	806	1188	6242
60	1167	891	641	285	85	2	0	2	26	227	658	1040	5024
57	1075	815	552	213	51	1	0	0	11	159	571	947	4395
55	1014	762	495	171	35	0	0	0	5	121	515	885	4003
50	867	633	355	87	11	0	0	0	0	54	380	736	3123
32	393	262	57	0	0	0	0	0	0	0	70	277	1059

Base	Cooling Degree Days (1)												
	Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
32	44	105	288	579	933	1212	1418	1339	1013	659	233	63	7886
55	0	0	12	70	244	522	705	626	341	88	5	0	2613
57	0	0	7	53	196	463	643	564	289	63	3	0	2281
60	0	0	3	33	134	375	550	471	219	36	1	0	1822
65	0	0	1	13	56	244	390	315	123	12	0	0	1154
70	0	0	0	4	19	127	248	187	58	3	0	0	646

### 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	36	133	360	694	985	1175	1100	783	430	101	12	4	40	173	533	1227	2212	3387	4487	5270	5700	5801	5813
45	0	12	72	237	539	835	1020	945	633	291	48	2	0	12	84	321	860	1695	2715	3660	4293	4584	4632	4634
50	0	1	35	137	387	685	865	790	487	174	17	0	0	1	36	173	560	1245	2110	2900	3387	3561	3578	3578
55	0	0	10	72	250	535	710	635	347	91	4	0	0	0	10	82	332	867	1577	2212	2559	2650	2654	2654
60	0	0	3	34	135	387	555	480	223	38	0	0	0	0	3	37	172	559	1114	1594	1817	1855	1855	1855
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	12	40	109	233	428	650	792	735	503	277	79	18	12	52	161	394	822	1472	2264	2999	3502	3779	3858	3876

(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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://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 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/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)