U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: ALEDO, IL **COOP ID: 110072**

Climate Division: IL 1 **NWS Call Sign:** **Elevation: 720 Feet** **Lat: 41˚12N** **Lon: 90˚45W**

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	28.9	11.1	20.0	69	1989	31	31.9	1990	-25	1994	19	7.3	1977	1395	0	.0	.0	1.2	16.9	29.5	6.9
Feb	34.6	16.4	25.5	72	1921	15	37.3	1998	-30	1905	13	13.6	1979	1107	0	.0	.0	4.1	11.3	24.6	3.3
Mar	47.3	26.4	36.9	94	1928	22	44.0	1973	-15	1962	1	28.7	1984	873	0	.0	.0	13.7	3.2	19.9	.2
Apr	60.9	37.0	49.0	93	1930	10	55.3	1977	10	1982	6	43.7	1983	485	3	.0	.1	25.3	.1	6.5	.0
May	71.6	48.5	60.1	103	1934	31	66.9	1977	27	1907	4	54.4	1997	206	53	.0	.8	30.8	.0	.2	.0
Jun	80.8	58.8	69.8	104	1936	29	75.4	1971	36+	1972	11	65.6	1982	24	169	.1	4.0	30.0	.0	.0	.0
Jul	84.4	62.3	73.4	113	1936	15	77.8	1983	44	1975	14	68.6	1992	5	263	.2	8.5	31.0	.0	.0	.0
Aug	82.2	59.9	71.1	106	1936	18	79.0	1983	38	1915	30	65.4	1992	28	217	.3	5.3	31.0	.0	.0	.0
Sep	75.2	51.4	63.3	102+	1953	2	68.6	1978	24	1942	28	58.1	1993	117	65	.0	1.8	30.0	.0	.4	.0
Oct	63.5	39.6	51.6	92	1953	2	58.6	1971	9	1925	28	45.8	1988	422	4	.0	.1	28.6	.0	4.8	.0
Nov	46.7	28.0	37.4	81+	1933	1	45.1	1999	-6	1977	26	29.7	1976	830	0	.0	.0	13.3	2.7	18.1	.1
Dec	33.5	17.0	25.3	70+	1998	6	33.4	1982	-22	1924	28	12.0	2000	1232	0	.0	.0	2.7	11.9	28.0	3.5
Ann	59.1	38.0	48.6	113	Jul 1936	15	79.0	Aug 1983	-30	Feb 1905	13	7.3	Jan 1977	6724	774	.6	20.6	241.7	46.1	132.0	14.0

\+ 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/normals/usnormals.html

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.27	1.11	2.23	1938	24	3.60	1996	.07	1981
Feb	1.29	1.15	1.75	1997	21	3.55	1997	.18	1978
Mar	2.43	1.77	2.90	1954	24	6.64	1991	.30	1981
Apr	3.69	3.26	4.87	1973	21	9.99	1973	1.05	1985
May	3.92	3.55	3.50	1938	17	9.96	1996	.45	1992
Jun	4.43	4.00	3.74	1973	26	11.97	1993	.97	1988
Jul	4.21	3.76	4.06	1902	18	12.51	1982	.44	1991
Aug	4.28	3.24	6.90	1930	17	11.96	1977	.75	1971
Sep	3.31	3.00	5.22	1961	13	7.82	1986	.00	1979
Oct	2.73	2.31	5.17	1955	6	8.10	1998	.50	1993
Nov	2.50	2.34	2.58	1944	6	5.72	1992	.15	1989
Dec	1.92	1.61	2.70	1987	15	5.75	1987	.31	1976
Ann	35.98	33.95	6.90	Aug 1930	17	12.51	Jul 1982	.00	Sep 1979

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.6	3.5	.7	.2
Feb	5.4	3.5	.6	.1
Mar	8.1	5.7	1.7	.5
Apr	9.3	6.8	2.5	.9
May	9.8	7.6	2.6	1.0
Jun	8.5	6.9	2.9	1.4
Jul	8.3	6.7	2.9	1.2
Aug	8.2	6.5	2.5	1.2
Sep	7.0	5.5	2.2	.8
Oct	7.0	5.3	1.9	.6
Nov	7.3	5.5	1.6	.4
Dec	6.2	4.2	1.0	.4
Ann	91.7	67.7	23.1	8.7

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.22	.33	.51	.69	.87	1.06	1.28	1.55	1.91	2.50	3.06
Feb	.31	.43	.62	.79	.96	1.13	1.33	1.57	1.88	2.36	2.82
Mar	.45	.66	1.02	1.35	1.69	2.05	2.46	2.96	3.63	4.69	5.71
Apr	1.13	1.48	2.01	2.46	2.89	3.34	3.84	4.42	5.18	6.36	7.45
May	1.10	1.47	2.03	2.52	3.00	3.50	4.06	4.71	5.56	6.90	8.14
Jun	1.11	1.52	2.17	2.74	3.30	3.90	4.56	5.35	6.39	8.02	9.55
Jul	.63	.98	1.59	2.17	2.77	3.44	4.20	5.14	6.40	8.45	10.42
Aug	.66	1.02	1.65	2.24	2.85	3.52	4.29	5.23	6.49	8.54	10.51
Sep	.67	1.13	1.69	2.14	2.56	3.00	3.48	4.05	4.78	5.92	6.97
Oct	.54	.79	1.19	1.55	1.92	2.32	2.77	3.32	4.04	5.19	6.29
Nov	.40	.62	.98	1.33	1.68	2.07	2.51	3.05	3.78	4.95	6.07
Dec	.40	.57	.85	1.11	1.37	1.65	1.96	2.34	2.83	3.63	4.38
Ann	23.34	25.70	28.77	31.14	33.26	35.33	37.48	39.87	42.81	47.10	50.85

\+ 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: 1901-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	7.7	8.3	3	1
Feb	6.0	6.0	2	1
Mar	4.1	2.4	#	#
Apr	.8	.0	#	0
May	#	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.2	.0	0	0
Nov	2.7	1.3	#	#
Dec	6.4	5.0	1	#
Ann	27.9	23.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	14.0	1971	3	17.9	1985	30	1979	19	22	1979
Feb	9.0	1975	24	19.2	1975	23	1979	8	18	1979
Mar	11.0	1972	29	18.0	1972	7	1972	29	1	1984
Apr	7.0	1982	5	11.0	1982	4+	1980	14	#+	1980
May	#	1989	6	#	1989	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	3.0	1997	27	3.0	1997	0	0	0	0	0
Nov	5.0	1974	13	12.0	1974	9	1975	27	1	1975
Dec	7.0	1978	31	17.9	1983	11	1977	8	8	1976
Ann	14.0	Jan 1971	3	19.2	Feb 1975	30	Jan 1979	19	22	Jan 1979

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	4.3	2.4	.7	.3	.1
Feb	3.1	2.0	.9	.3	.0
Mar	1.9	1.3	.5	.1	@
Apr	.5	.3	.1	.1	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.1	.1	@	.0	.0
Nov	1.2	.8	.3	.1	.0
Dec	3.1	2.2	.9	.2	.0
Ann	14.2	9.1	3.4	1.1	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	-9.9	-9.9	-9.9	-9.9
Mar	1.3	.6	.2	.0
Apr	.1	.1	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	1.0	.3	.2	.0
Dec	3.4	2.5	1.1	.0
Ann	-9.9	-9.9	-9.9	-9.9

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/20	5/14	5/10	5/06	5/03	4/30	4/26	4/22	4/16
32	5/05	4/30	4/26	4/23	4/20	4/18	4/15	4/11	4/06
28	4/21	4/18	4/15	4/13	4/11	4/09	4/06	4/04	3/31
24	4/15	4/10	4/07	4/04	4/01	3/30	3/27	3/23	3/18
20	4/06	4/01	3/28	3/24	3/21	3/17	3/14	3/10	3/04
16	3/28	3/22	3/17	3/13	3/10	3/06	3/02	2/26	2/19

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	9/21	9/25	9/28	10/01	10/03	10/05	10/08	10/11	10/15
32	9/24	9/30	10/04	10/07	10/11	10/14	10/17	10/21	10/27
28	10/07	10/12	10/16	10/19	10/22	10/25	10/29	11/01	11/07
24	10/17	10/23	10/27	10/30	11/02	11/06	11/09	11/13	11/19
20	10/31	11/05	11/09	11/12	11/14	11/17	11/20	11/24	11/29
16	11/06	11/12	11/16	11/19	11/22	11/25	11/29	12/03	12/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	173	166	161	156	152	148	144	139	131
32	194	186	181	177	172	168	164	158	151
28	211	205	201	197	194	190	187	182	176
24	237	229	224	219	214	210	205	200	192
20	263	255	248	243	238	233	228	221	213
16	281	273	267	262	257	252	247	241	233

***** 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	1395	1107	873	485	206	24	5	28	117	422	830	1232	6724
60	1240	967	718	346	116	5	0	7	48	283	680	1077	5487
57	1147	883	626	270	75	2	0	2	23	211	591	984	4814
55	1085	827	566	224	54	1	0	0	13	168	533	922	4393
50	930	695	425	129	20	0	0	0	2	86	395	776	3458
32	431	280	81	2	0	0	0	0	0	1	68	314	1177

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	59	97	230	510	870	1134	1282	1211	938	606	228	105	7270
55	0	0	3	43	211	445	569	498	261	61	3	0	2094
57	0	0	1	28	170	386	507	438	211	42	1	0	1784
60	0	0	0	14	117	299	414	350	146	21	0	0	1361
65	0	0	0	3	53	169	263	217	65	4	0	0	774
70	0	0	0	0	18	72	132	116	21	0	0	0	359

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	6	22	122	354	689	938	1087	1021	754	433	119	12	6	28	150	504	1193	2131	3218	4239	4993	5426	5545	5557
45	0	7	67	234	535	788	932	866	605	294	57	5	0	7	74	308	843	1631	2563	3429	4034	4328	4385	4390
50	0	0	34	136	387	638	777	711	456	183	27	1	0	0	34	170	557	1195	1972	2683	3139	3322	3349	3350
55	0	0	12	70	249	488	622	556	316	99	6	0	0	0	12	82	331	819	1441	1997	2313	2412	2418	2418
60	0	0	6	32	141	344	467	401	200	44	2	0	0	0	6	38	179	523	990	1391	1591	1635	1637	1637
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	14	77	218	425	623	742	689	483	257	63	7	0	14	91	309	734	1357	2099	2788	3271	3528	3591	3598

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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