

Climatography of the United States

No. 20

1971-2000

Station: DIXON 1 NW, IL

COOP ID: 112348

Climate Division: IL 1

NWS Call Sign:

Elevation: 700 Feet

Lat: 41° 51N

Lon: 89° 30W

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	26.0	9.5	17.8	63+	1967	24	30.4	1990	-27+	1999	6	4.7	1977	1465	0	.0	.0	.8	19.4	30.2	8.8
Feb	31.7	15.0	23.4	71	2000	26	36.3	1998	-27	1905	13	10.9	1979	1166	0	.0	.0	2.4	12.7	25.9	5.1
Mar	44.2	26.7	35.5	87	1986	30	43.5	2000	-11+	1962	1	28.3	1984	916	0	.0	.0	11.1	4.2	22.2	.3
Apr	58.0	37.4	47.7	93	1986	26	54.0	1977	8	1982	7	40.9	1982	522	3	.0	.1	23.5	.3	8.9	.0
May	69.7	48.5	59.1	105	1934	31	66.6	1977	25+	1907	11	51.7	1997	240	58	.0	1.0	30.5	.0	.6	.0
Jun	78.8	58.0	68.4	106	1934	1	73.5	1971	34	1945	5	62.7	1982	37	138	@	3.2	30.0	.0	.0	.0
Jul	82.0	62.3	72.2	110	1936	14	76.2	1999	43	1904	23	66.4	1996	11	234	.1	6.2	31.0	.0	.0	.0
Aug	80.3	60.0	70.2	103+	1988	18	77.0	1995	37	1934	29	65.2	1992	38	197	.2	4.3	31.0	.0	.0	.0
Sep	73.3	51.2	62.3	102+	1939	15	69.0	1978	22	1942	28	57.9	1993	134	52	.0	1.8	30.0	.0	.5	.0
Oct	61.8	39.4	50.6	93	1963	6	58.7	1971	7	1925	28	44.7	1987	452	6	.0	.1	27.3	.0	7.6	.0
Nov	45.4	28.4	36.9	81	1933	1	44.3	1999	-8+	1977	26	28.7	1996	844	0	.0	.0	11.8	3.0	20.1	.1
Dec	31.4	16.5	24.0	68+	1998	5	33.5	1982	-25+	1983	24	11.5	1983	1274	0	.0	.0	2.3	13.3	28.7	4.4
Ann	56.9	37.7	47.3	110	Jul 1936	14	77.0	Aug 1995	-27+	Jan 1999	6	4.7	Jan 1977	7099	688	.3	16.7	231.7	52.9	144.7	18.7

+ 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: 1901-2001

(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: DIXON 1 NW, IL

COOP ID: 112348

Climate Division: IL 1

NWS Call Sign:

Elevation: 700 Feet

Lat: 41°51N

Lon: 89°30W

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	1.60	1.31	1.87	1938	24	4.04	1974	.20	1981	7.7	4.2	.8	.2	.35	.49	.73	.94	1.16	1.38	1.64	1.95	2.35	3.00	3.61
Feb	1.43	1.13	1.79	1994	20	3.55	1997	.00	1987	6.1	3.8	.9	.2	.24	.44	.68	.87	1.07	1.27	1.49	1.75	2.09	2.63	3.13
Mar	2.55	2.38	2.22	1976	5	5.45	1991	.24	1996	8.6	5.7	1.6	.5	.49	.72	1.09	1.44	1.79	2.16	2.59	3.10	3.78	4.88	5.92
Apr	3.61	3.35	2.59	1973	22	8.78	1973	1.16	1985	10.5	6.9	2.5	.8	1.08	1.42	1.93	2.38	2.81	3.26	3.75	4.33	5.08	6.25	7.34
May	4.32	3.59	4.88	1974	17	11.20	1996	.78	1992	10.2	7.4	2.9	1.1	1.08	1.48	2.11	2.67	3.22	3.80	4.45	5.23	6.24	7.83	9.33
Jun	4.88	4.23	4.69	1978	26	11.36	1993	.25	1988	9.1	7.3	3.2	1.3	1.05	1.50	2.21	2.86	3.51	4.21	4.99	5.93	7.16	9.14	11.00
Jul	3.45	3.24	5.08	1922	10	9.69	1992	.51	1997	8.3	5.8	2.2	.9	.69	1.00	1.51	1.97	2.44	2.94	3.51	4.20	5.11	6.56	7.94
Aug	4.47	3.44	4.10	1916	11	12.43	1987	.54	1976	9.2	6.5	2.9	1.4	.75	1.14	1.79	2.40	3.03	3.72	4.50	5.45	6.72	8.78	10.75
Sep	3.31	3.59	4.95	1989	1	8.34	1989	.04	1979	8.3	5.5	2.4	.7	.49	.77	1.25	1.71	2.19	2.71	3.31	4.04	5.03	6.64	8.19
Oct	2.71	2.50	4.67	1931	11	8.06	1998	.48	1992	8.0	5.3	1.8	.6	.48	.72	1.12	1.49	1.87	2.27	2.74	3.31	4.06	5.27	6.43
Nov	2.82	2.67	2.90	1935	3	7.04	1985	.44	1999	8.6	5.7	2.1	.5	.66	.93	1.34	1.71	2.07	2.46	2.90	3.42	4.10	5.18	6.19
Dec	2.13	2.05	2.36	1936	30	4.79	1971	.34	1976	8.1	4.9	1.0	.4	.48	.68	.99	1.27	1.55	1.85	2.19	2.59	3.12	3.96	4.75
Ann	37.28	37.74	5.08	Jul 1922	10	12.43	Aug 1987	.00	Feb 1987	102.7	69.0	24.3	8.6	26.68	28.74	31.37	33.36	35.14	36.85	38.61	40.57	42.93	46.36	49.32

+ 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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Station: DIXON 1 NW, IL

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Climate Division: IL 1

NWS Call Sign:

Elevation: 700 Feet

Lat: 41°51N

Lon: 89°30W

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	11.5	8.9	4	3	12.1	1979	1	46.5	1979	33	1979	19	25	1979	5.7	3.7	1.2	.5	.1	19.3	15.2	9.5	2.4
Feb	6.2	6.3	4	2	7.8	1990	15	17.6	1975	30	1979	1	27	1979	3.7	2.5	.6	.2	.0	15.3	11.4	7.3	2.4
Mar	4.5	2.7	1	#	8.8	1991	13	19.2	1972	22	1979	1	9	1979	2.2	1.5	.4	.2	.0	4.8	3.1	2.1	.8
Apr	.9	.0	#	0	7.8	1975	3	7.8	1975	8	1975	3	1	1975	.4	.3	.1	@	.0	.4	.2	.1	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	.1	.0	#	0	2.0	1990	11	2.0	1990	#+	1990	11	#+	1990	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	2.0	.5	#	#	6.3	1997	15	11.0	1997	7	1997	16	1	1997	1.2	.7	.3	.1	.0	1.3	.8	.3	.0
Dec	8.7	6.5	2	2	9.1	2000	12	29.4	1978	19	2000	30	11	2000	4.4	2.9	1.2	.3	.0	12.5	8.5	5.3	1.3
Ann	33.9	24.9	N/A	N/A	12.1	Jan 1979	1	46.5	Jan 1979	33	Jan 1979	19	27	Feb 1979	17.6	11.6	3.8	1.3	.1	53.6	39.2	24.6	6.9

+ 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	5/27	5/21	5/17	5/13	5/09	5/06	5/02	4/27	4/21
32	5/13	5/08	5/04	5/01	4/28	4/25	4/22	4/19	4/14
28	5/01	4/26	4/22	4/19	4/16	4/13	4/10	4/06	4/01
24	4/16	4/12	4/10	4/07	4/05	4/03	4/01	3/29	3/26
20	4/13	4/08	4/04	3/31	3/28	3/25	3/21	3/17	3/12
16	4/02	3/26	3/22	3/18	3/14	3/11	3/07	3/02	2/24
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	9/18	9/22	9/25	9/27	9/29	10/01	10/04	10/07	10/10
32	9/25	9/30	10/03	10/06	10/08	10/11	10/14	10/17	10/21
28	10/03	10/09	10/13	10/17	10/20	10/23	10/27	10/31	11/06
24	10/22	10/26	10/29	11/01	11/03	11/06	11/08	11/11	11/15
20	10/26	10/31	11/04	11/07	11/10	11/13	11/16	11/20	11/25
16	11/07	11/13	11/17	11/21	11/24	11/27	12/01	12/05	12/11
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	163	156	151	147	142	138	134	129	121
32	182	175	170	166	162	158	154	149	142
28	207	200	195	191	186	182	178	173	166
24	227	221	218	214	211	208	205	201	196
20	248	241	235	231	226	222	217	212	204
16	280	271	265	259	254	249	243	237	227

* 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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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	1465	1166	916	522	240	37	11	38	134	452	844	1274	7099
60	1310	1026	761	380	146	9	0	11	58	314	694	1119	5828
57	1217	942	668	302	102	4	0	4	30	241	605	1026	5141
55	1155	886	608	253	78	2	0	1	18	198	546	964	4709
50	1000	753	465	150	34	0	0	0	3	110	407	816	3738
32	495	324	99	3	0	0	0	0	0	2	69	344	1336

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	53	82	207	474	841	1091	1246	1182	908	579	215	93	6971
55	0	0	2	34	206	403	533	470	235	62	2	0	1947
57	0	0	0	23	168	345	471	411	188	43	1	0	1650
60	0	0	0	11	120	260	378	325	125	23	0	0	1242
65	0	0	0	3	58	138	234	197	52	6	0	0	688
70	0	0	0	0	23	54	117	104	15	0	0	0	313

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	2	13	91	293	634	887	1034	966	703	370	95	10	2	15	106	399	1033	1920	2954	3920	4623	4993	5088	5098
45	0	4	50	183	481	737	879	811	553	244	48	4	0	4	54	237	718	1455	2334	3145	3698	3942	3990	3994
50	0	0	22	102	335	587	724	656	408	146	20	1	0	0	22	124	459	1046	1770	2426	2834	2980	3000	3001
55	0	0	6	52	213	439	569	501	270	74	4	0	0	0	6	58	271	710	1279	1780	2050	2124	2128	2128
60	0	0	2	25	117	294	414	348	160	31	0	0	0	0	2	27	144	438	852	1200	1360	1391	1391	1391
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	8	60	182	385	581	702	641	438	227	55	5	0	8	68	250	635	1216	1918	2559	2997	3224	3279	3284

(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