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: JACKSONVILLE 2 E, IL **COOP ID: 114442**

Climate Division: IL 6 **NWS Call Sign:** **Elevation: 610 Feet** **Lat: 39˚44N** **Lon: 90˚13W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Extremes Year	Extremes Day	Extremes Highest Month(1) Mean	Extremes Year	Extremes Lowest Daily(2)	Extremes Year	Extremes Day	Extremes Lowest Month(1) Mean	Extremes Year	Degree Days (1) Base Temp 65 Heating	Degree Days (1) Base Temp 65 Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	34.4	15.0	24.7	75	1950	24	37.8	1990	-24+	1927	15	10.5	1977	1251	0	.0	.0	3.5	14.3	29.0	4.4
Feb	40.3	19.2	29.8	80+	1932	10	39.7	1998	-28	1934	27	15.4	1979	988	0	.0	.0	6.5	8.9	23.9	3.1
Mar	52.1	28.6	40.4	91	1907	21	47.5	1973	-14	1948	12	32.0	1978	765	0	.0	.0	16.0	2.5	19.8	.1
Apr	64.2	38.7	51.5	94	1930	10	57.6	1981	10	1920	5	46.3	1997	413	5	.0	@	26.2	.0	6.4	.0
May	74.4	49.1	61.8	103	1934	31	68.7	1977	26	1966	10	57.0	1981	181	80	.0	.5	30.8	.0	.3	.0
Jun	83.3	58.5	70.9	107	1931	30	75.5	1971	36	1993	5	66.2	1982	19	196	@	5.0	30.0	.0	.0	.0
Jul	87.0	62.7	74.9	114	1954	14	78.9	1983	43+	1930	15	70.8	1971	1	306	.2	9.6	31.0	.0	.0	.0
Aug	85.0	60.1	72.6	112	1934	9	78.7	1983	39+	1986	30	67.3	1992	18	253	.3	6.6	31.0	.0	.0	.0
Sep	79.3	51.8	65.6	103+	1913	3	71.1	1998	25	1942	28	59.9	1974	78	95	.0	2.9	30.0	.0	.4	.0
Oct	67.6	40.7	54.2	95	1922	3	60.6	1971	9	1925	30	47.8	1976	345	10	.0	@	29.4	.0	6.4	.0
Nov	52.4	30.7	41.6	84+	1950	1	48.8	1999	-5	1929	30	34.3	1976	704	0	.0	.0	16.3	1.4	17.6	.1
Dec	39.4	20.3	29.9	74	1998	5	38.6	1982	-24	1944	26	16.4	1983	1090	0	.0	.0	5.8	8.9	27.0	2.2
Ann	63.3	39.6	51.5	114	Jul 1954	14	78.9	Jul 1983	-28	Feb 1934	27	10.5	Jan 1977	5853	945	.5	24.6	256.5	36.0	130.8	9.9

\+ 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

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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	1.35	1.05	1.96	1993	4	4.03	1993	.03	1986
Feb	1.69	1.31	1.81	1909	14	4.86	1990	.10	1987
Mar	3.18	3.17	4.58	1917	13	6.46	1976	.90	1986
Apr	3.77	3.50	4.79	1994	12	9.96	1994	.58	1971
May	4.86	4.74	4.75	1970	1	10.55	1990	.90	1979
Jun	4.36	3.76	4.19	1973	19	11.67	1998	.63	1992
Jul	3.85	3.61	3.65	1973	21	10.64	1973	1.03	1998
Aug	3.35	3.17	3.41	1912	26	7.80	1995	.61	1998
Sep	3.46	2.82	5.02	1993	23	15.98	1993	.00	1979
Oct	2.61	2.40	3.82	1969	12	4.84+	1977	1.00	1992
Nov	3.45	3.07	2.94	1994	6	10.92	1985	.33	1999
Dec	2.54	2.07	4.80	1982	3	9.65	1982	.25	1976
Ann	38.47	37.76	5.02	Sep 1993	23	15.98	Sep 1993	.00	Sep 1979

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.9	3.7	.6	.1
Feb	6.8	3.5	1.2	.4
Mar	9.9	6.6	2.1	.5
Apr	11.4	7.2	2.6	.9
May	11.1	7.7	3.1	1.3
Jun	9.3	6.3	2.9	1.5
Jul	8.4	6.0	2.7	1.0
Aug	8.4	5.5	2.7	1.0
Sep	7.7	5.6	2.3	.9
Oct	8.7	5.6	1.8	.6
Nov	9.8	6.3	2.3	.9
Dec	8.2	4.8	1.6	.6
Ann	106.6	68.8	25.9	9.7

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	.14	.24	.42	.61	.81	1.04	1.31	1.65	2.11	2.88	3.63
Feb	.31	.46	.71	.94	1.17	1.43	1.72	2.07	2.53	3.28	3.99
Mar	1.16	1.46	1.89	2.25	2.59	2.94	3.32	3.76	4.33	5.20	6.00
Apr	1.11	1.47	2.00	2.47	2.92	3.39	3.91	4.53	5.32	6.56	7.71
May	1.30	1.76	2.46	3.08	3.68	4.32	5.02	5.86	6.95	8.66	10.25
Jun	.94	1.34	1.98	2.56	3.14	3.76	4.46	5.29	6.39	8.15	9.81
Jul	.87	1.23	1.79	2.30	2.81	3.34	3.95	4.67	5.63	7.14	8.57
Aug	.86	1.17	1.66	2.09	2.52	2.96	3.46	4.05	4.82	6.04	7.18
Sep	.48	.93	1.51	2.00	2.49	3.00	3.57	4.26	5.15	6.58	7.93
Oct	.86	1.11	1.47	1.78	2.08	2.38	2.72	3.11	3.62	4.41	5.13
Nov	.56	.86	1.36	1.83	2.32	2.86	3.47	4.21	5.21	6.82	8.37
Dec	.39	.61	.97	1.33	1.69	2.09	2.55	3.11	3.86	5.08	6.25
Ann	23.83	26.52	30.04	32.76	35.22	37.63	40.15	42.96	46.41	51.50	55.96

\+ 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

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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	6.7	6.0	2	1
Feb	4.9	3.5	1	1
Mar	2.2	1.0	#	#
Apr	.4	.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
Nov	1.4	.0	#	0
Dec	4.9	2.2	1	#
Ann	20.5	12.7	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	10.0	1999	2	23.8	1977	17	1999	3	7	1999
Feb	7.0	1988	11	13.3	1988	14	1982	11	6	1982
Mar	7.0	1978	8	11.3	1980	18	1978	9	5	1978
Apr	2.0	1980	14	3.5	1980	3	1980	15	#+	2000
May	.0	0	0	.0	0	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	#	2000	7	#+	2000	#	2000	7	#	2000
Nov	9.0	1975	27	10.5	1975	10	1975	27	1	1977
Dec	8.5	1981	23	23.5	1973	14	1973	21	4+	2000
Ann	10.0	Jan 1999	2	23.8	Jan 1977	18	Mar 1978	9	7	Jan 1999

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.9	2.6	.8	.2	@
Feb	2.7	1.9	.6	.2	.0
Mar	1.3	.9	.4	.1	.0
Apr	.3	.3	.0	.0	.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	.0	.0	.0	.0	.0
Nov	.7	.5	.1	.1	.0
Dec	2.8	1.9	.5	.3	.0
Ann	11.7	8.1	2.4	.9	@

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	10.9	6.1	3.6	.4
Feb	8.9	5.0	2.3	.2
Mar	2.0	.7	.2	.0
Apr	.3	.0	.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	.4	.2	@
Dec	5.8	2.8	1.8	.3
Ann	28.9	15.0	8.1	.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

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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	5/21	5/16	5/12	5/08	5/05	5/02	4/29	4/25	4/19
32	5/07	5/02	4/28	4/24	4/21	4/18	4/15	4/11	4/06
28	4/17	4/14	4/11	4/09	4/07	4/05	4/03	4/01	3/29
24	4/15	4/10	4/06	4/03	3/31	3/28	3/25	3/22	3/17
20	4/06	3/30	3/25	3/21	3/17	3/13	3/09	3/04	2/26
16	3/23	3/17	3/13	3/09	3/06	3/02	2/26	2/22	2/16

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	9/17	9/22	9/26	9/29	10/02	10/05	10/08	10/11	10/16
32	9/25	9/30	10/04	10/06	10/09	10/12	10/15	10/18	10/23
28	10/07	10/13	10/17	10/20	10/24	10/27	10/30	11/03	11/09
24	10/18	10/24	10/28	11/01	11/04	11/08	11/12	11/16	11/22
20	10/30	11/05	11/09	11/13	11/17	11/20	11/24	11/28	12/04
16	11/12	11/17	11/21	11/25	11/28	12/01	12/05	12/09	12/14

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	169	162	157	153	149	145	141	136	129
32	188	182	177	174	170	166	163	158	152
28	215	210	205	202	198	195	192	187	182
24	242	234	228	222	218	213	208	202	193
20	272	262	255	249	244	238	232	226	216
16	290	282	276	271	267	262	257	251	243

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1251	988	765	413	181	19	1	18	78	345	704	1090	5853
60	1096	848	610	278	100	4	0	3	26	217	554	935	4671
57	1003	770	525	207	64	1	0	0	11	153	468	842	4044
55	941	717	467	166	46	1	0	0	5	118	414	784	3659
50	796	587	332	83	17	0	0	0	0	53	284	640	2792
32	326	219	50	0	0	0	0	0	0	0	30	221	846

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	99	155	309	583	923	1167	1328	1258	1007	688	317	153	7987
55	0	9	12	58	255	478	615	545	322	92	10	4	2400
57	0	6	8	40	212	419	553	483	268	66	5	0	2060
60	0	0	0	21	155	331	460	393	193	37	1	0	1591
65	0	0	0	5	80	196	306	253	95	10	0	0	945
70	0	0	0	1	33	91	164	139	35	1	0	0	464

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	11	45	146	369	690	942	1095	1019	778	455	160	32	11	56	202	571	1261	2203	3298	4317	5095	5550	5710	5742
45	3	16	85	250	535	792	940	864	630	317	91	15	3	19	104	354	889	1681	2621	3485	4115	4432	4523	4538
50	0	4	46	144	387	642	785	709	483	198	46	4	0	4	50	194	581	1223	2008	2717	3200	3398	3444	3448
55	0	0	21	78	251	495	630	554	341	112	19	0	0	0	21	99	350	845	1475	2029	2370	2482	2501	2501
60	0	0	6	34	142	349	475	400	220	55	4	0	0	0	6	40	182	531	1006	1406	1626	1681	1685	1685
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	10	34	101	232	432	628	746	684	509	293	97	22	10	44	145	377	809	1437	2183	2867	3376	3669	3766	3788

(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