

Climatology of the United States

No. 20

1971-2000

Station: JERSEYVILLE 2 SW, IL

COOP ID: 114489

Climate Division: IL 6

NWS Call Sign:

Elevation: 630 Feet

Lat: 39°06N

Lon: 90°21W

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	35.3	17.3	26.3	74+	1950	25	38.6	1990	-25	1977	17	10.6	1977	1200	0	.0	.0	4.5	12.3	28.1	3.7
Feb	41.3	22.2	31.8	80	1972	29	41.2	1976	-22+	1982	10	17.2	1978	932	0	.0	.0	8.0	7.3	22.6	2.2
Mar	52.5	32.2	42.4	86	1985	29	48.8	1973	-11	1960	5	34.4	1978	702	0	.0	.0	18.3	1.7	16.5	.1
Apr	64.2	42.1	53.2	92	1951	28	59.2	1981	18	1961	2	47.6	1983	364	8	.0	.1	27.0	.0	4.9	.0
May	74.3	52.1	63.2	96	1953	26	70.0	1987	28	1976	4	57.7	1981	150	93	.0	.6	30.8	.0	.3	.0
Jun	83.1	61.4	72.3	104	1954	26	76.1	1987	37	1972	1	67.5	1974	12	228	@	5.6	30.0	.0	.0	.0
Jul	87.5	65.7	76.6	112+	1954	15	80.3	1983	43	1962	27	72.8	1971	0	360	.4	12.5	31.0	.0	.0	.0
Aug	85.9	63.1	74.5	105	1964	3	80.2	1983	38	1986	29	68.4	1992	9	302	.5	9.3	31.0	.0	.0	.0
Sep	78.8	54.6	66.7	102+	1954	5	72.1	1998	27	1983	23	60.7	1974	71	121	@	3.3	30.0	.0	.3	.0
Oct	67.6	43.3	55.5	93+	1963	7	62.3	1971	17+	1981	24	50.1	1976	310	13	.0	@	29.6	.0	5.0	.0
Nov	52.5	33.6	43.1	84	1950	1	50.0	1999	-2+	1991	8	35.9	1976	658	0	.0	.0	17.0	1.2	15.0	@
Dec	40.0	22.8	31.4	74	1948	15	39.6	1982	-19+	1989	22	17.6	1983	1041	0	.0	.0	7.3	7.4	25.6	1.7
Ann	63.6	42.5	53.1	112+	Jul 1954	15	80.3	Jul 1983	-25	Jan 1977	17	10.6	Jan 1977	5449	1125	.9	31.4	264.5	29.9	118.3	7.7

+ 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: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

040-A

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: JERSEYVILLE 2 SW, IL

COOP ID: 114489

Climate Division: IL 6

NWS Call Sign:

Elevation: 630 Feet

Lat: 39°06N

Lon: 90°21W

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	1.92	1.47	2.21	1993	4	4.99	1995	.03	1986	7.4	4.3	1.2	.3	.18	.31	.57	.84	1.13	1.46	1.85	2.34	3.01	4.13	5.23
Feb	2.01	1.53	2.13	1957	26	4.66	1990	.39	1972	6.7	4.1	1.3	.5	.48	.67	.96	1.22	1.48	1.76	2.06	2.43	2.91	3.66	4.37
Mar	3.51	3.32	2.82	1977	12	6.62	1977	.55	1971	9.7	6.8	2.6	.8	1.21	1.54	2.02	2.43	2.82	3.22	3.66	4.17	4.83	5.84	6.78
Apr	4.14	3.57	3.22	1975	24	12.36	1994	1.12	1976	11.2	7.0	2.8	.9	1.02	1.41	2.02	2.55	3.08	3.64	4.27	5.01	5.98	7.52	8.96
May	3.95	3.18	3.73	1983	2	9.66	1990	.67	1986	11.0	7.2	2.8	1.0	.87	1.24	1.81	2.34	2.86	3.41	4.04	4.79	5.78	7.35	8.83
Jun	3.68	3.17	3.51	1957	14	8.38	2000	.79	1992	8.8	6.0	2.8	1.1	1.15	1.50	2.02	2.46	2.89	3.34	3.83	4.41	5.15	6.31	7.38
Jul	3.51	2.98	2.67	1955	14	8.05	1981	.66	1997	8.3	5.8	2.6	1.1	1.01	1.34	1.85	2.28	2.71	3.15	3.64	4.22	4.96	6.14	7.22
Aug	2.91	2.75	5.81	1961	11	9.01	1974	.12	1984	7.2	4.9	1.9	.8	.43	.67	1.09	1.50	1.92	2.37	2.90	3.55	4.42	5.84	7.20
Sep	3.23	2.40	3.78	1989	9	10.71	1993	.36	1979	7.6	5.0	2.3	.9	.56	.84	1.31	1.76	2.21	2.70	3.26	3.95	4.86	6.33	7.73
Oct	2.86	2.51	3.74	1969	12	5.89	1986	.84	1992	8.9	5.7	2.0	.7	.98	1.25	1.65	1.98	2.30	2.62	2.98	3.40	3.93	4.75	5.51
Nov	3.77	3.44	3.01	1996	7	10.28	1985	.59	1989	9.4	6.8	2.9	1.1	.75	1.09	1.64	2.15	2.66	3.21	3.84	4.59	5.59	7.18	8.70
Dec	2.82	2.22	5.12	1982	3	9.31	1982	.48	1976	7.9	5.2	1.7	.8	.53	.78	1.19	1.58	1.96	2.38	2.86	3.43	4.20	5.42	6.59
Ann	38.31	39.34	5.81	Aug 1961	11	12.36	Apr 1994	.03	Jan 1986	104.1	68.8	26.9	10.0	27.47	29.57	32.26	34.30	36.11	37.86	39.66	41.65	44.07	47.57	50.59

+ 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

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Station: JERSEYVILLE 2 SW, IL

COOP ID: 114489

Climate Division: IL 6

NWS Call Sign:

Elevation: 630 Feet

Lat: 39°06N

Lon: 90°21W

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	5.3	2.6	2	1	7.5	1999	2	18.0	1979	18	1977	28	12	1977	2.8	2.2	.7	.2	.0	8.1	3.8	2.1	.2
Feb	4.1	3.0	1	#	8.0	1993	16	18.0	1993	17	1977	2	7	1979	1.8	1.4	.5	.1	.0	4.6	2.8	1.6	.5
Mar	3.2	1.0	#	#	11.0	1990	24	19.5	1978	20	1978	9	8	1978	.9	.8	.4	.2	.1	1.4	.7	.4	.0
Apr	.5	.0	#	0	5.0	1971	6	5.0	1971	5	1971	6	#+	2000	.2	.2	.1	@	.0	.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	#	.0	0	0	#	1993	31	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.3	.0	#	0	6.0	1975	27	7.0+	1980	7	1980	28	1	1980	.5	.4	.2	.1	.0	.8	.3	.2	.0
Dec	4.2	2.5	1	#	12.0	1973	31	26.0	1973	12	1973	31	4	2000	1.6	1.2	.5	.2	@	3.8	2.0	1.0	.2
Ann	18.6	9.1	N/A	N/A	12.0	Dec 1973	31	26.0	Dec 1973	20	Mar 1978	9	12	Jan 1977	7.8	6.2	2.4	.8	.1	18.9	9.7	5.3	.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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NWS Call Sign:

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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	5/15	5/10	5/07	5/04	5/01	4/28	4/25	4/21	4/16
32	5/03	4/28	4/24	4/21	4/18	4/14	4/11	4/07	4/02
28	4/19	4/14	4/11	4/08	4/05	4/03	3/31	3/27	3/23
24	4/11	4/05	4/01	3/29	3/26	3/23	3/20	3/16	3/11
20	3/27	3/23	3/19	3/17	3/14	3/11	3/09	3/05	3/01
16	3/24	3/16	3/11	3/06	3/01	2/25	2/20	2/15	2/07
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	9/23	9/26	9/29	10/02	10/04	10/07	10/10	10/15
32	9/25	9/30	10/03	10/06	10/09	10/11	10/14	10/17	10/22
28	10/04	10/10	10/14	10/17	10/21	10/24	10/28	11/01	11/07
24	10/16	10/23	10/29	11/02	11/07	11/11	11/15	11/21	11/28
20	10/24	11/01	11/07	11/12	11/17	11/21	11/26	12/02	12/10
16	11/11	11/17	11/22	11/26	11/30	12/03	12/07	12/12	12/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	171	165	161	157	153	150	146	141	135
32	190	185	180	177	173	170	166	162	156
28	219	212	207	202	198	193	189	184	176
24	252	243	236	230	225	219	214	207	198
20	272	263	257	252	247	242	237	231	222
16	304	293	285	279	272	266	260	252	241

* 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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Climate Division: IL 6 NWS Call Sign: Elevation: 630 Feet Lat: 39°06N Lon: 90°21W

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	1200	932	702	364	150	12	0	9	71	310	658	1041	5449
60	1045	792	550	235	77	2	0	1	24	187	511	886	4310
57	952	715	465	170	46	1	0	0	10	128	429	796	3712
55	891	663	408	133	31	0	0	0	5	95	374	739	3339
50	748	535	280	61	10	0	0	0	0	39	252	595	2520
32	297	183	34	0	0	0	0	0	0	0	25	196	735

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	121	175	355	634	966	1206	1383	1316	1040	726	357	178	8457
55	1	11	16	76	285	516	670	603	355	108	16	8	2665
57	0	7	11	54	238	457	608	541	300	78	10	3	2307
60	0	0	3	29	175	368	515	449	224	45	3	0	1811
65	0	0	0	8	93	228	360	302	121	13	0	0	1125
70	0	0	0	1	39	111	209	174	52	2	0	0	588

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	24	60	189	422	732	981	1147	1075	807	490	184	45	24	84	273	695	1427	2408	3555	4630	5437	5927	6111	6156
45	6	30	114	292	578	831	992	920	658	347	111	20	6	36	150	442	1020	1851	2843	3763	4421	4768	4879	4899
50	3	11	62	185	428	681	837	765	510	224	57	6	3	14	76	261	689	1370	2207	2972	3482	3706	3763	3769
55	0	2	30	102	287	531	682	610	371	131	23	0	0	2	32	134	421	952	1634	2244	2615	2746	2769	2769
60	0	0	9	48	169	384	527	455	241	61	5	0	0	0	9	57	226	610	1137	1592	1833	1894	1899	1899
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	15	46	120	252	463	661	780	729	530	311	110	31	15	61	181	433	896	1557	2337	3066	3596	3907	4017	4048

(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