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: TELL CITY, IN **COOP ID: 128698**

Climate Division: IN 8 **NWS Call Sign:** **Elevation: 400 Feet** **Lat: 37˚57N** **Lon: 86˚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	39.0	24.0	31.5	74	1952	1	42.6	1990	-17	1985	21	15.4	1977	1038	0	.0	.0	7.0	8.6	24.0	1.2
Feb	44.5	26.9	35.7	77	1962	14	44.6	1990	-8+	1951	2	22.4	1978	820	0	.0	.0	10.8	4.9	19.8	.3
Mar	54.9	35.4	45.2	84	1986	31	51.9	1973	-1	1980	3	38.1	1978	617	0	.0	.0	21.2	.8	13.3	@
Apr	65.8	44.2	55.0	89+	1989	26	60.1	1981	20	1971	8	49.3	1983	310	10	.0	.0	27.8	.0	3.4	.0
May	75.3	54.0	64.7	95	1953	27	71.2	1991	30+	1963	1	60.1	1981	121	110	.0	.7	30.9	.0	@	.0
Jun	83.7	63.3	73.5	102+	1952	30	76.8	1984	42+	1956	2	68.8	1974	7	262	.0	6.3	30.0	.0	.0	.0
Jul	87.5	67.9	77.7	105	1952	29	81.5	1993	47	1959	2	74.3	1979	0	394	.2	13.0	31.0	.0	.0	.0
Aug	86.3	66.1	76.2	104	1951	31	81.8	1983	46	1986	30	72.3	1976	2	349	.1	10.3	31.0	.0	.0	.0
Sep	80.0	58.9	69.5	106	1954	7	74.8	1998	36+	1974	24	63.7	1974	40	174	@	3.9	30.0	.0	.0	.0
Oct	68.7	46.7	57.7	96	1953	1	64.9	1971	21+	1952	29	51.2	1976	259	33	.0	.1	30.4	.0	2.2	.0
Nov	55.8	38.2	47.0	86	1950	1	53.2	1999	0	1950	26	38.6	1976	541	1	.0	.0	20.7	.3	10.0	.0
Dec	43.9	28.6	36.3	77	1982	3	44.7	1982	-14+	1989	22	24.7	1989	890	0	.0	.0	10.5	4.7	20.0	.4
Ann	65.5	46.2	55.8	106	Sep 1954	7	81.8	Aug 1983	-17	Jan 1985	21	15.4	Jan 1977	4645	1333	.3	34.3	281.3	19.3	92.7	1.9

\+ 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: 1948-2001

(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	3.38	2.94	3.51	1999	23	7.32	1996	.48	1981
Feb	3.18	2.94	3.09	1989	13	8.87	1989	.51	1978
Mar	4.46	3.84	4.75	1997	2	13.16	1997	2.23	1990
Apr	4.49	3.98	6.05	1970	28	10.04	1979	1.05	1986
May	5.22	4.37	3.75	1961	8	13.27	1995	1.63	1987
Jun	4.34	4.45	4.37	2001	21	8.98	1998	1.09	1984
Jul	4.50	4.18	3.20	1981	15	12.45	1979	.81	1994
Aug	3.81	3.12	6.24	1950	1	11.50	1974	.34	1987
Sep	3.39	3.37	3.60	1965	12	8.44	1996	.26	1999
Oct	2.98	2.71	2.72	1999	10	7.15	1983	.30	2000
Nov	4.05	3.33	3.62	1957	14	9.50	1973	1.05	1976
Dec	4.02	3.42	2.31	1957	7	9.17	1990	.61	1976
Ann	47.82	47.47	6.24	Aug 1950	1	13.27	May 1995	.26	Sep 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.3	6.1	2.1	.9
Feb	8.5	5.8	1.9	.8
Mar	10.9	8.0	2.8	1.0
Apr	10.7	7.2	2.9	1.2
May	11.4	8.3	3.8	1.3
Jun	9.6	7.6	2.9	1.0
Jul	8.9	6.7	3.3	1.4
Aug	7.7	5.5	2.6	1.1
Sep	7.6	5.3	2.1	1.0
Oct	7.5	5.2	2.0	.7
Nov	9.6	6.9	3.0	1.1
Dec	10.4	7.1	2.9	1.2
Ann	112.1	79.7	32.3	12.7

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	.88	1.20	1.69	2.12	2.55	2.99	3.49	4.07	4.84	6.05	7.18
Feb	.87	1.17	1.63	2.03	2.42	2.84	3.29	3.83	4.53	5.63	6.65
Mar	1.86	2.26	2.83	3.30	3.74	4.19	4.67	5.23	5.93	7.00	7.97
Apr	1.52	1.94	2.56	3.09	3.59	4.11	4.68	5.34	6.20	7.51	8.73
May	1.75	2.25	2.97	3.59	4.18	4.78	5.45	6.23	7.22	8.77	10.19
Jun	1.32	1.73	2.35	2.88	3.39	3.93	4.52	5.21	6.10	7.49	8.79
Jul	1.20	1.63	2.28	2.85	3.41	4.00	4.65	5.42	6.43	8.01	9.49
Aug	.55	.86	1.41	1.94	2.49	3.10	3.80	4.66	5.81	7.70	9.52
Sep	.50	.78	1.27	1.74	2.23	2.77	3.39	4.14	5.16	6.82	8.41
Oct	.79	1.08	1.51	1.89	2.26	2.65	3.08	3.60	4.27	5.32	6.31
Nov	1.25	1.64	2.21	2.70	3.18	3.67	4.22	4.85	5.67	6.96	8.14
Dec	1.19	1.57	2.14	2.64	3.12	3.62	4.17	4.82	5.66	6.97	8.19
Ann	35.31	37.77	40.90	43.26	45.34	47.35	49.42	51.70	54.46	58.44	61.87

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	4.9	.0	1	#
Feb	2.2	.0	1	#
Mar	.7	.0	#	0
Apr	.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	.4	.0	#	0
Dec	1.1	.0	#	0
Ann	9.4	.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	12.0	1978	17	26.8	1978	16	1978	20	7	1978
Feb	6.8	1993	16	11.0	1979	10	1998	6	3	1978
Mar	4.0	1978	3	4.5	1978	5	1980	2	#+	1998
Apr	2.5	1973	10	2.5	1973	3	1973	10	#+	1982
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	.0	0	0	.0	0	0	0	0	0	0
Nov	2.5	1977	27	4.5	1971	3	1977	27	#+	1992
Dec	6.0	1984	6	6.0	1984	6	1984	7	1	1984
Ann	12.0	Jan 1978	17	26.8	Jan 1978	16	Jan 1978	20	7	Jan 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.8	1.4	.6	.2	.1
Feb	1.3	.9	.2	@	.0
Mar	.3	.2	.1	.0	.0
Apr	.1	.1	.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	.2	.2	.0	.0	.0
Dec	.6	.3	.2	.1	.0
Ann	4.3	3.1	1.1	.3	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	3.0	1.4	1.0	.6
Feb	3.2	2.0	.7	.0
Mar	.4	.2	.0	.0
Apr	.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	.0
Dec	.4	.2	.1	.0
Ann	7.2	3.8	1.8	.6

+ 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	5/04	4/29	4/25	4/22	4/20	4/17	4/14	4/10	4/05
32	4/23	4/18	4/15	4/12	4/10	4/07	4/05	4/01	3/28
28	4/15	4/09	4/05	4/02	3/30	3/26	3/23	3/19	3/13
24	4/01	3/26	3/22	3/18	3/14	3/11	3/07	3/03	2/24
20	3/21	3/13	3/08	3/04	2/28	2/24	2/19	2/14	2/07
16	3/13	3/04	2/26	2/20	2/15	2/11	2/05	1/30	1/21

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	10/03	10/07	10/10	10/13	10/16	10/18	10/21	10/24	10/28
32	10/08	10/14	10/18	10/21	10/24	10/28	10/31	11/04	11/09
28	10/25	10/30	11/03	11/06	11/09	11/12	11/15	11/19	11/25
24	10/31	11/07	11/12	11/17	11/21	11/24	11/29	12/04	12/11
20	11/13	11/20	11/25	11/30	12/04	12/08	12/12	12/17	12/24
16	11/30	12/07	12/12	12/16	12/20	12/24	12/28	1/02	1/08

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	191	186	182	178	175	171	166	160
32	215	209	204	200	197	193	189	185	178
28	246	238	233	228	224	219	215	209	202
24	275	267	261	255	250	245	240	234	225
20	305	296	289	283	278	273	267	260	251
16	339	328	320	313	307	300	293	285	274

***** 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	1038	820	617	310	121	7	0	2	40	259	541	890	4645
60	883	680	470	187	57	1	0	0	11	153	399	735	3576
57	799	602	385	127	32	0	0	0	4	104	318	652	3023
55	740	550	332	94	20	0	0	0	2	77	268	593	2676
50	596	422	216	36	6	0	0	0	0	31	163	454	1924
32	203	103	17	0	0	0	0	0	0	0	7	111	441

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	188	207	423	690	1012	1245	1417	1370	1124	797	456	244	9173
55	12	10	25	94	319	555	704	657	437	161	28	13	3015
57	9	7	16	67	268	495	642	595	379	125	18	9	2630
60	0	0	9	37	200	406	549	502	295	81	8	0	2087
65	0	0	0	10	110	262	394	349	174	33	1	0	1333
70	0	0	0	2	48	136	243	207	84	9	0	0	729

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	47	89	236	470	777	1018	1178	1132	892	558	262	88	47	136	372	842	1619	2637	3815	4947	5839	6397	6659	6747
45	21	46	140	335	622	868	1023	977	742	408	162	44	21	67	207	542	1164	2032	3055	4032	4774	5182	5344	5388
50	5	16	81	213	467	718	868	822	592	272	93	20	5	21	102	315	782	1500	2368	3190	3782	4054	4147	4167
55	0	2	37	126	321	568	713	667	445	164	45	3	0	2	39	165	486	1054	1767	2434	2879	3043	3088	3091
60	0	0	11	61	195	419	558	512	305	87	14	0	0	0	11	72	267	686	1244	1756	2061	2148	2162	2162
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	28	55	144	286	495	698	820	785	593	343	142	47	28	83	227	513	1008	1706	2526	3311	3904	4247	4389	4436

(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.
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