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: CAMBRIDGE CITY 3 N, IN **COOP ID: 121229**

Climate Division: IN 6 **NWS Call Sign:** **Elevation: 1,000 Feet** **Lat: 39˚52N** **Lon: 85˚11W**

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	32.3	14.7	23.5	71	1950	26	33.8	1990	-31	1994	20	7.2	1977	1287	0	.0	.0	3.1	14.6	28.5	5.2
Feb	37.1	17.6	27.4	73	2000	26	36.9	1998	-19	1977	7	10.1	1978	1054	0	.0	.0	5.4	10.0	25.0	3.7
Mar	48.2	27.0	37.6	82	1986	31	44.6	1976	-14	1984	10	28.7	1984	850	0	.0	.0	14.2	3.0	22.2	.4
Apr	60.0	36.4	48.2	88	1960	25	53.6	1985	13	1995	5	43.6	1975	505	0	.0	.0	24.5	.1	10.2	.0
May	70.5	47.7	59.1	93	1962	19	66.5	1977	25	1966	10	54.2	1997	232	49	.0	.1	30.7	.0	.9	.0
Jun	79.2	57.1	68.2	100	1988	26	71.7	1984	35	1990	5	63.1	1972	37	132	@	1.9	30.0	.0	.0	.0
Jul	82.9	60.7	71.8	102	1952	29	75.3	1977	44+	1963	10	68.9	1984	4	215	.0	4.6	31.0	.0	.0	.0
Aug	81.3	58.1	69.7	100	1953	29	75.3	1995	38	1986	29	64.9	1992	26	172	.0	2.1	31.0	.0	.0	.0
Sep	75.3	49.9	62.6	102+	1951	1	66.5	1998	26	1995	23	58.3	1974	117	46	.0	1.0	30.0	.0	.4	.0
Oct	63.6	38.0	50.8	90+	1951	5	57.8	1971	12	1952	21	44.1	1988	446	5	.0	.0	28.3	.0	8.7	.0
Nov	49.8	30.1	40.0	84	1950	1	44.9	1994	-7	1958	30	31.1	1976	752	0	.0	.0	15.2	1.3	18.4	.0
Dec	37.5	20.6	29.1	73	1982	3	38.3	1982	-22+	1989	22	15.8	1989	1116	0	.0	.0	5.4	9.0	26.0	1.9
Ann	59.8	38.2	49.0	102+	Jul 1952	29	75.3+	Aug 1995	-31	Jan 1994	20	7.2	Jan 1977	6426	619	@	9.7	248.8	38.0	140.3	11.2

\+ 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	2.44	2.09	3.54	1949	5	5.71	1999	.35	1981
Feb	2.33	2.13	2.23	1965	10	5.30	1990	.07	1978
Mar	3.35	2.95	2.42	1964	10	7.34	1973	1.22	1981
Apr	4.19	4.21	2.94	1996	29	7.90	1996	1.39	1976
May	4.89	4.81	2.76	1993	13	8.76	1995	1.53	1988
Jun	4.41	3.76	3.44	1958	9	10.70	1998	1.44	1988
Jul	4.18	3.57	4.19	1969	20	12.25	1979	.90	1974
Aug	3.51	3.05	2.16	1962	26	8.49	1979	.78	1996
Sep	2.80	2.27	2.86	1997	10	6.38	1996	.37	1998
Oct	2.81	2.39	3.20	1986	2	8.05	1986	.49	1982
Nov	3.55	2.87	3.21	1955	16	8.03	1985	.91	1976
Dec	3.05	3.10	3.37	1967	3	7.64	1990	.26	1976
Ann	41.51	41.21	4.19	Jul 1969	20	12.25	Jul 1979	.07	Feb 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.0	6.2	1.4	.3
Feb	9.9	5.6	1.4	.4
Mar	11.8	7.1	2.2	.7
Apr	12.9	8.6	2.8	.8
May	12.3	8.6	3.5	1.3
Jun	10.6	7.3	3.2	1.0
Jul	10.0	6.5	2.9	1.1
Aug	9.0	6.1	2.6	.9
Sep	8.6	5.1	1.8	.6
Oct	9.2	5.4	1.8	.6
Nov	11.3	6.9	2.5	.8
Dec	12.0	6.6	2.1	.5
Ann	128.6	80.0	28.2	9.0

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	.76	.99	1.34	1.63	1.92	2.22	2.54	2.93	3.42	4.19	4.90
Feb	.47	.68	1.02	1.34	1.65	1.99	2.37	2.84	3.45	4.42	5.35
Mar	1.20	1.52	1.98	2.36	2.72	3.10	3.50	3.98	4.58	5.52	6.37
Apr	1.70	2.08	2.63	3.08	3.50	3.93	4.39	4.92	5.60	6.63	7.57
May	1.95	2.40	3.04	3.57	4.07	4.58	5.12	5.75	6.56	7.79	8.90
Jun	1.33	1.75	2.38	2.92	3.44	3.98	4.58	5.29	6.20	7.63	8.95
Jul	1.10	1.50	2.10	2.64	3.16	3.71	4.32	5.04	5.98	7.46	8.85
Aug	1.04	1.38	1.88	2.31	2.73	3.17	3.65	4.22	4.95	6.10	7.16
Sep	.55	.80	1.21	1.59	1.97	2.38	2.84	3.40	4.14	5.33	6.46
Oct	.70	.97	1.38	1.74	2.10	2.48	2.90	3.40	4.06	5.10	6.07
Nov	1.03	1.36	1.87	2.31	2.74	3.19	3.69	4.27	5.02	6.21	7.31
Dec	.92	1.21	1.64	2.01	2.37	2.75	3.17	3.65	4.29	5.27	6.19
Ann	30.88	32.98	35.64	37.65	39.42	41.13	42.89	44.83	47.17	50.54	53.44

\+ 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)

Extremes (2)

Mean Number of Days (1)

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	5.1	4.4	2	1	8.8	1999	2	11.6	1994	19	1996	8	8	1996	5.3	2.8	.7	.2	.0	9.6	3.9	1.7	.0
Feb	4.6	2.6	1	1	8.0	1979	26	19.0	1979	15	1979	13	9	1979	4.0	1.7	.4	.1	.0	8.2	2.7	2.0	.8
Mar	3.2	1.9	#	#	8.2	1996	20	11.5+	1996	12	1978	9	4	1978	2.6	1.1	.3	.1	.0	2.6	.6	.3	.0
Apr	.5	#	#	0	4.0	1982	9	5.1	1982	4	1982	9	#+	1997	.4	.2	@	.0	.0	.2	@	.0	.0
May	#	.0	0	0	#	1989	6	#	1989	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	2.3	1989	19	3.3	1989	2	1989	20	#+	1993	.1	.1	.0	.0	.0	.1	.0	.0	.0
Nov	1.0	.1	#	#	5.0	1977	28	5.0	1977	5	1977	28	#+	2000	1.0	.4	.1	@	.0	.9	.1	@	.0
Dec	4.4	3.9	1	#	6.2	1973	20	14.2	1973	12	1977	11	3	1977	3.5	1.6	.4	.1	.0	4.8	2.3	.4	.0
Ann	18.9	12.9	N/A	N/A	8.8	Jan 1999	2	19.0	Feb 1979	19	Jan 1996	8	9	Feb 1979	16.9	7.9	1.9	.5	.0	26.4	9.6	4.4	.8

+ 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	6/01	5/26	5/21	5/17	5/13	5/09	5/05	4/30	4/23
32	5/14	5/09	5/06	5/03	4/30	4/27	4/25	4/21	4/17
28	5/03	4/28	4/25	4/22	4/20	4/17	4/14	4/11	4/06
24	4/19	4/15	4/12	4/10	4/07	4/05	4/02	3/30	3/26
20	4/13	4/07	4/03	3/30	3/27	3/23	3/20	3/16	3/10
16	4/01	3/25	3/20	3/16	3/12	3/08	3/04	2/27	2/21

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	9/18	9/21	9/24	9/26	9/28	9/30	10/02	10/04	10/07
32	9/25	9/29	10/02	10/04	10/06	10/08	10/10	10/13	10/16
28	10/03	10/08	10/12	10/15	10/18	10/21	10/24	10/28	11/02
24	10/14	10/19	10/23	10/26	10/29	11/01	11/05	11/08	11/14
20	10/25	10/30	11/03	11/06	11/09	11/12	11/16	11/19	11/25
16	11/06	11/13	11/18	11/22	11/26	11/30	12/04	12/09	12/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	160	152	146	142	137	133	128	123	115
32	173	168	164	161	158	155	152	149	144
28	197	191	187	184	181	178	174	170	165
24	223	217	212	208	204	200	196	192	185
20	251	243	237	232	227	222	217	210	202
16	281	273	267	262	258	253	248	242	234

***** 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	1287	1054	850	505	232	37	4	26	117	446	752	1116	6426
60	1132	914	695	359	135	9	0	5	44	306	602	961	5162
57	1039	830	602	275	90	4	0	0	21	233	513	868	4475
55	977	774	547	224	66	2	0	0	11	189	454	806	4050
50	825	645	404	115	25	0	0	0	2	102	317	664	3099
32	344	244	74	0	0	0	0	0	0	1	31	234	928

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	80	114	246	486	840	1084	1234	1169	919	583	269	142	7166
55	0	1	7	19	193	396	521	456	240	59	2	0	1894
57	0	0	0	10	155	338	459	395	190	40	1	0	1588
60	0	0	0	4	107	254	366	306	123	20	0	0	1180
65	0	0	0	0	49	132	215	172	46	5	0	0	619
70	0	0	0	0	17	48	90	78	10	0	0	0	243

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	17	32	122	303	617	869	1010	949	707	374	140	37	17	49	171	474	1091	1960	2970	3919	4626	5000	5140	5177
45	5	10	63	186	464	719	855	794	558	244	77	15	5	15	78	264	728	1447	2302	3096	3654	3898	3975	3990
50	0	3	36	107	323	569	700	639	409	140	39	5	0	3	39	146	469	1038	1738	2377	2786	2926	2965	2970
55	0	0	15	51	200	419	545	485	273	70	13	0	0	0	15	66	266	685	1230	1715	1988	2058	2071	2071
60	0	0	3	20	106	276	390	332	160	26	1	0	0	0	3	23	129	405	795	1127	1287	1313	1314	1314
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	4	22	88	194	381	569	686	632	456	247	88	21	4	26	114	308	689	1258	1944	2576	3032	3279	3367	3388

(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