

Climatology of the United States

No. 20

1971-2000

Station: TERRE HAUTE IN STATE, IN

COOP ID: 128723

Climate Division: IN 4

NWS Call Sign:

Elevation: 507 Feet

Lat: 39° 28N

Lon: 87° 25W

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	17.7	26.5	67+	1960	13	38.3	1990	-24	1977	17	10.2	1977	1194	0	.0	.0	4.0	12.4	27.9	3.9
Feb	40.9	21.8	31.4	76	2000	26	40.6	1998	-20	1982	10	17.3	1978	943	0	.0	.0	6.5	7.2	23.7	2.2
Mar	52.2	32.7	42.5	83	1986	31	50.1	1973	-8	1960	6	34.6	1978	699	0	.0	.0	17.6	1.4	18.0	@
Apr	63.6	41.6	52.6	88+	2001	10	57.3	1985	17	1982	7	48.1	1983	376	4	.0	.0	27.1	.0	5.2	.0
May	74.7	51.6	63.2	99	2001	16	69.9	1991	29+	1971	4	58.4	1989	152	95	.0	.9	30.9	.0	.3	.0
Jun	83.6	60.9	72.3	102	1988	26	77.0	1994	36+	1992	22	67.0	1974	15	231	.1	6.9	30.0	.0	.0	.0
Jul	87.3	65.0	76.2	102+	1988	10	80.4	1999	41	1996	4	72.2	1971	0	345	.3	9.4	31.0	.0	.0	.0
Aug	85.3	62.9	74.1	100	1964	4	80.8	1995	42	1986	30	69.7	1986	8	291	.0	6.8	31.0	.0	.0	.0
Sep	78.9	55.2	67.1	104	1954	6	73.1	1998	27	2001	30	60.9	1974	59	121	.0	2.9	30.0	.0	.1	.0
Oct	67.6	43.5	55.6	94	1954	4	63.1	1971	19+	1976	28	49.4	1988	314	20	.0	.1	30.1	.0	3.9	.0
Nov	53.0	33.8	43.4	81+	1968	1	49.2+	1994	1	1958	30	34.7	1976	648	0	.0	.0	17.8	.7	15.7	.0
Dec	40.7	23.2	32.0	74	1998	7	40.2	1982	-22+	1989	22	19.7	1989	1025	0	.0	.0	6.6	6.8	24.9	1.8
Ann	63.6	42.5	53.1	104	Sep 1954	6	80.8	Aug 1995	-24	Jan 1977	17	10.2	Jan 1977	5433	1107	.4	27.0	262.6	28.5	119.7	7.9

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1954-2001

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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	2.13	2.19	2.52	1959	21	5.89	1982	.26	1986	9.1	5.8	1.1	.2	.52	.72	1.03	1.30	1.58	1.87	2.19	2.58	3.08	3.88	4.63	
Feb	2.58	2.39	2.81	1997	27	5.95	1990	.49	1987	8.7	5.0	1.5	.5	.52	.75	1.13	1.47	1.82	2.20	2.62	3.14	3.81	4.90	5.92	
Mar	3.68	3.78	2.14	1977	28	7.10	1973	1.04	1971	10.6	7.1	2.4	.8	1.24	1.58	2.09	2.53	2.94	3.37	3.84	4.38	5.08	6.17	7.17	
Apr	4.12	3.94	2.87	1996	29	7.81	1996	.76	1971	12.2	8.5	2.8	.9	1.40	1.79	2.36	2.84	3.30	3.78	4.30	4.90	5.68	6.88	7.99	
May	4.46	4.42	2.66	1961	8	11.76	1981	1.47	1991	11.2	8.1	3.2	1.0	1.42	1.85	2.47	3.01	3.52	4.06	4.64	5.33	6.21	7.59	8.86	
Jun	4.09	3.95	4.15	1971	3	8.05	2000	.29	1988	9.7	6.5	2.9	.9	1.06	1.44	2.04	2.56	3.08	3.62	4.22	4.94	5.87	7.35	8.73	
Jul	4.45	4.58	4.68	1973	21	10.96	1979	.55	1997	9.5	7.2	3.2	1.3	.70	1.08	1.72	2.34	2.97	3.66	4.46	5.43	6.73	8.85	10.87	
Aug	3.73	3.57	4.60	1985	16	9.96	1985	.28	1996	8.2	5.9	2.5	1.1	.56	.87	1.41	1.93	2.46	3.05	3.72	4.55	5.66	7.47	9.20	
Sep	3.39	2.99	3.52	1961	25	8.78	1993	.49	1995	7.9	5.4	2.4	1.0	.65	.95	1.45	1.91	2.37	2.88	3.45	4.13	5.05	6.51	7.91	
Oct	3.00	2.68	2.90	2001	25	6.58	1990	1.03	1989	9.0	5.4	1.9	.8	1.06	1.34	1.75	2.09	2.42	2.76	3.13	3.56	4.11	4.96	5.73	
Nov	3.83	3.66	3.22	1993	14	11.63	1985	.42	1999	10.4	6.9	2.5	.9	.76	1.10	1.66	2.18	2.70	3.26	3.90	4.66	5.67	7.30	8.84	
Dec	3.01	2.61	2.31	1990	30	8.12	1982	.35	1976	9.3	5.7	2.2	.6	.65	.93	1.37	1.77	2.17	2.60	3.08	3.65	4.41	5.61	6.75	
Ann	42.47	41.71	4.68	Jul 1973	21	11.76	May 1981	.26	Jan 1986	115.8	77.5	28.6	10.0	30.67	32.96	35.89	38.11	40.08	41.98	43.94	46.10	48.72	52.51	55.79	

+ 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: 1954-2001

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

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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	6.0	4.5	1	#	7.7	1978	17	24.0	1979	12	1982	30	5	1977	3.3	2.2	.6	.2	.0	7.4	4.8	3.7	.1
Feb	3.7	2.0	1	#	11.5	1982	5	24.0	1982	6	1978	18	6	1978	1.6	.7	.3	.2	.1	3.9	1.3	.9	.0
Mar	2.3	.5	#	0	6.5	1978	8	13.9	1978	13	1978	9	2	1978	.9	.7	.3	.1	.0	1.0	.6	.4	.1
Apr	.1	.0	#	0	1.1	1994	7	1.1	1994	1	1994	7	#+	1997	.1	.1	.0	.0	.0	.1	.0	.0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	3.0	1975	27	4.0	1975	3	1975	28	#+	1997	.3	.3	.1	.0	.0	.3	.1	.0	.0
Dec	2.6	1.7	#	#	14.0	1973	31	14.0	1973	9	2000	20	4	2000	1.8	.9	.3	.2	.1	4.1	1.6	.8	.0
Ann	15.1	8.7	N/A	N/A	14.0	Dec 1973	31	24.0+	Feb 1982	13	Mar 1978	9	6	Feb 1978	8.0	4.9	1.6	.7	.2	16.8	8.4	5.8	.2

+ Also occurred on an earlier date(s) #Denotes trace amounts

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-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	5/23	5/16	5/11	5/06	5/02	4/27	4/23	4/17	4/10
32	5/08	5/02	4/27	4/23	4/20	4/16	4/12	4/08	4/01
28	4/18	4/13	4/09	4/06	4/03	3/31	3/28	3/24	3/19
24	4/11	4/05	4/01	3/29	3/26	3/22	3/19	3/15	3/09
20	3/29	3/24	3/19	3/16	3/12	3/09	3/05	3/01	2/23
16	3/20	3/12	3/07	3/02	2/26	2/21	2/17	2/11	2/04
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	9/22	9/28	10/02	10/06	10/09	10/12	10/16	10/20	10/26
32	9/29	10/04	10/08	10/12	10/15	10/18	10/21	10/25	10/31
28	10/12	10/17	10/21	10/25	10/28	10/31	11/04	11/08	11/14
24	10/19	10/26	11/01	11/05	11/10	11/14	11/19	11/24	12/02
20	11/02	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/11
16	11/13	11/20	11/25	11/29	12/03	12/07	12/12	12/17	12/24
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	188	178	171	165	160	154	148	141	131
32	203	194	188	182	177	172	167	161	152
28	232	223	217	212	207	203	198	192	183
24	258	248	240	234	228	223	217	209	199
20	279	271	264	259	254	249	243	237	228
16	306	297	291	285	280	275	269	262	253

* 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)

Base	Heating Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Below 65	1194	943	699	376	152	15	0	8	59	314	648	1025	5433
60	1039	803	546	242	78	3	0	0	19	197	500	870	4297
57	946	721	461	172	47	1	0	0	7	140	417	781	3693
55	884	669	404	132	32	0	0	0	4	108	362	724	3319
50	741	539	276	57	10	0	0	0	0	49	239	580	2491
32	288	177	32	0	0	0	0	0	0	0	18	186	701

Cooling Degree Days (1)

Base	Cooling Degree Days (1)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Above 32	117	158	356	618	966	1207	1368	1306	1052	729	360	184	8421
55	0	7	15	60	285	517	655	593	366	124	14	9	2645
57	0	3	10	40	238	458	593	531	310	94	9	4	2290
60	0	0	3	20	176	370	500	438	231	58	2	0	1798
65	0	0	0	4	95	231	345	291	121	20	0	0	1107
70	0	0	0	1	41	118	199	162	49	5	0	0	575

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	21	47	168	402	728	977	1129	1062	822	485	188	43	21	68	236	638	1366	2343	3472	4534	5356	5841	6029	6072
45	5	18	100	274	574	827	974	907	672	342	106	20	5	23	123	397	971	1798	2772	3679	4351	4693	4799	4819
50	0	4	55	165	423	677	819	752	523	217	55	5	0	4	59	224	647	1324	2143	2895	3418	3635	3690	3695
55	0	0	26	89	281	527	664	597	379	119	22	3	0	0	26	115	396	923	1587	2184	2563	2682	2704	2707
60	0	0	7	40	166	378	509	442	250	53	4	0	0	0	7	47	213	591	1100	1542	1792	1845	1849	1849
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	12	35	105	240	455	655	776	727	534	304	111	29	12	47	152	392	847	1502	2278	3005	3539	3843	3954	3983

(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/normal/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 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/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