

Climatography of the United States

No. 20

1971-2000

Station: NORTH VERNON 2 ESE, IN

COOP ID: 126435

Climate Division: IN 9

NWS Call Sign:

Elevation: 740 Feet Lat: 39°00N Lon: 85°36W

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	38.5	21.6	30.1	73	1950	25	39.7	1990	-24	1977	17	14.9	1977	1084	0	.0	.0	6.1	9.8	25.2	2.3
Feb	44.6	25.4	35.0	76	1972	29	44.4	1976	-16	1951	2	20.7	1978	841	0	.0	.0	10.3	5.2	20.4	1.3
Mar	55.0	34.1	44.6	85	1986	31	52.3	1973	-6	1980	3	37.0	1984	634	0	.0	.0	20.6	.9	15.4	.1
Apr	65.7	42.6	54.2	89	1962	30	60.2	1981	19+	1990	7	48.9	1997	331	6	.0	.0	28.0	.0	5.3	.0
May	75.0	52.3	63.7	95+	1962	17	69.9+	1991	25	1966	10	58.7	1997	133	92	.0	.2	31.0	.0	.5	.0
Jun	82.7	61.1	71.9	101	1988	25	75.4	1984	36	1966	1	67.7	1992	10	217	@	3.7	30.0	.0	.0	.0
Jul	86.0	65.0	75.5	105	1954	14	79.1	1999	45+	1962	27	72.6	2000	0	324	.2	8.2	31.0	.0	.0	.0
Aug	84.1	63.0	73.6	103	1983	21	79.0	1983	40+	1965	29	69.0	1992	6	271	.1	5.4	31.0	.0	.0	.0
Sep	78.4	55.7	67.1	101	1954	5	72.1	1998	32+	1962	29	62.0	1974	58	120	.0	1.8	30.0	.0	.0	.0
Oct	67.4	44.3	55.9	91+	1959	3	63.0	1971	18+	1962	26	48.7	1988	303	20	.0	@	30.3	.0	3.7	.0
Nov	54.4	36.1	45.3	82+	1958	17	51.1	1999	-2	1958	30	37.3	1976	593	0	.0	.0	19.5	.3	11.9	.0
Dec	43.0	26.8	34.9	74+	1982	3	43.7	1982	-22	1989	22	20.9	1989	934	0	.0	.0	8.5	5.1	21.7	1.0
Ann	64.6	44.0	54.3	105	Jul 1954	14	79.1	Jul 1999	-24	Jan 1977	17	14.9	Jan 1977	4927	1050	.3	19.3	276.3	21.3	104.1	4.7

+ 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

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: NORTH VERNON 2 ESE, IN

COOP ID: 126435

Climate Division: IN 9

NWS Call Sign:

Elevation: 740 Feet Lat: 39°00N

Lon: 85°36W

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	2.97	2.60	4.80	1959	21	7.82	1982	.00	1984	10.3	6.2	2.0	.6	.66	1.09	1.58	1.97	2.34	2.72	3.14	3.62	4.24	5.21	6.10
Feb	2.71	2.81	3.02	1975	23	5.64	2000	.25	1978	8.7	5.8	1.6	.6	.59	.84	1.24	1.60	1.96	2.34	2.77	3.29	3.98	5.07	6.10
Mar	3.76	3.20	4.10	1964	9	8.85	1973	1.38	1994	10.3	7.4	3.0	.7	1.34	1.69	2.21	2.64	3.05	3.47	3.93	4.47	5.15	6.21	7.18
Apr	4.37	4.71	4.00	1996	29	9.83	1998	1.39	1976	10.7	7.6	2.7	1.1	1.51	1.93	2.53	3.03	3.52	4.02	4.57	5.20	6.02	7.28	8.44
May	4.72	4.21	4.30	1968	24	10.72	1990	1.41	1988	10.1	7.5	3.3	1.4	1.68	2.12	2.77	3.31	3.83	4.36	4.93	5.61	6.47	7.79	9.01
Jun	3.82	3.44	6.50	1960	23	8.42	1998	.41	1991	9.2	6.7	2.6	.8	1.01	1.37	1.92	2.41	2.89	3.39	3.95	4.61	5.48	6.83	8.10
Jul	4.42	4.23	4.30	1957	5	12.49	1992	1.10	1983	8.3	6.4	2.8	1.3	1.41	1.83	2.45	2.98	3.49	4.02	4.60	5.29	6.16	7.53	8.79
Aug	4.42	4.03	4.80	1979	20	10.08	1979	1.51	1996	8.8	5.9	2.7	1.2	1.24	1.66	2.29	2.85	3.39	3.95	4.58	5.32	6.28	7.79	9.20
Sep	2.89	2.74	4.20	1956	15	6.46	1974	.17	1997	7.4	5.2	2.0	.7	.64	.91	1.33	1.71	2.10	2.51	2.96	3.51	4.23	5.38	6.47
Oct	3.19	2.76	4.02	1983	20	9.94	1983	1.31	1997	8.0	5.5	1.9	.7	1.09	1.40	1.83	2.20	2.56	2.93	3.33	3.79	4.39	5.31	6.16
Nov	3.83	3.76	2.80	1948	19	7.63	1979	1.60	1976	10.0	6.8	2.8	.9	1.63	1.98	2.46	2.86	3.23	3.61	4.01	4.48	5.06	5.96	6.77
Dec	3.40	3.32	3.40	1948	15	7.43	1990	.48	1976	9.8	6.6	2.4	.9	1.11	1.43	1.90	2.31	2.70	3.10	3.54	4.05	4.72	5.75	6.70
Ann	44.50	45.62	6.50	Jun 1960	23	12.49	Jul 1992	.00	Jan 1984	111.6	77.6	29.8	10.9	33.97	36.07	38.72	40.71	42.47	44.16	45.89	47.79	50.08	53.38	56.20

+ 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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Climate Division: IN 9

NWS Call Sign:

Elevation: 740 Feet

Lat: 39°00N

Lon: 85°36W

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	2.3	1	#	6.5	1977	5	26.1	1977	16	1977	14	10	1977	2.1	1.7	.6	.1	.0	3.7	2.4	2.2	1.5
Feb	3.3	1.7	1	#	6.0	1972	6	13.8	1979	11	1977	1	7	1978	1.5	.8	.2	.2	.0	3.9	2.3	1.3	.1
Mar	1.3	.0	#	0	9.0	1980	1	9.0	1980	12	1996	21	1	1996	.5	.3	.1	.1	.0	.3	.1	.1	.0
Apr	.1	.0	#	0	3.0	1977	6	3.0	1977	#	1974	8	#	1974	@	@	@	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	1.5	1971	6	3.3	1971	2	1971	6	#+	1995	.2	.1	.0	.0	.0	.2	.0	.0	.0
Dec	2.9	1.5	#	0	7.0	1984	6	9.5+	2000	7	2000	31	2	2000	1.4	1.1	.3	.1	.0	1.5	.1	.0	.0
Ann	13.9	5.5	N/A	N/A	9.0	Mar 1980	1	26.1	Jan 1977	16	Jan 1977	14	10	Jan 1977	5.7	4.0	1.2	.5	.0	9.6	4.9	3.6	1.6

+ 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

Complete documentation available from:

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NWS Call Sign:

Elevation: 740 Feet

Lat: 39°00N

Lon: 85°36W

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	5/19	5/14	5/10	5/07	5/04	5/01	4/28	4/25	4/20
32	5/10	5/04	4/30	4/27	4/23	4/20	4/16	4/12	4/06
28	4/21	4/17	4/14	4/12	4/09	4/07	4/04	4/01	3/28
24	4/15	4/10	4/07	4/04	4/02	3/30	3/27	3/24	3/19
20	4/05	3/30	3/25	3/22	3/18	3/15	3/11	3/07	3/01
16	3/22	3/15	3/10	3/06	3/03	2/27	2/23	2/18	2/12
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	9/24	9/27	9/29	10/01	10/03	10/05	10/07	10/09	10/12
32	10/05	10/09	10/12	10/15	10/17	10/19	10/22	10/25	10/29
28	10/10	10/16	10/20	10/24	10/28	10/31	11/04	11/08	11/15
24	10/22	10/28	11/02	11/06	11/09	11/13	11/17	11/21	11/28
20	11/02	11/09	11/14	11/18	11/22	11/26	12/01	12/06	12/13
16	11/15	11/22	11/27	12/02	12/06	12/10	12/15	12/20	12/27
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	167	162	158	154	151	148	144	140	134
32	198	190	185	180	176	172	167	162	155
28	221	214	209	205	201	197	192	187	180
24	238	232	228	224	221	218	214	210	204
20	274	265	259	253	248	243	237	231	222
16	304	295	288	283	278	272	267	260	252

* 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: IN 9 NWS Call Sign: Elevation: 740 Feet Lat: 39°00N Lon: 85°36W

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	1084	841	634	331	133	10	0	6	58	303	593	934	4927
60	929	701	488	202	62	2	0	0	18	186	446	779	3813
57	836	623	403	138	35	0	0	0	7	129	363	694	3228
55	777	571	349	103	22	0	0	0	4	98	310	636	2870
50	634	443	232	40	6	0	0	0	0	42	195	495	2087
32	217	116	21	0	0	0	0	0	0	0	10	135	499

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	156	200	410	665	982	1197	1347	1288	1052	739	407	224	8667
55	4	10	25	77	291	507	634	575	366	125	18	12	2644
57	0	6	16	53	242	447	572	513	309	94	11	8	2271
60	0	0	9	26	176	358	479	420	230	57	3	0	1758
65	0	0	0	6	92	217	324	271	120	20	0	0	1050
70	0	0	0	1	37	100	176	142	47	4	0	0	507

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	37	85	226	444	736	963	1114	1060	827	511	218	72	37	122	348	792	1528	2491	3605	4665	5492	6003	6221	6293
45	17	42	141	306	581	813	959	905	677	366	133	36	17	59	200	506	1087	1900	2859	3764	4441	4807	4940	4976
50	4	18	79	197	430	663	804	750	527	235	69	16	4	22	101	298	728	1391	2195	2945	3472	3707	3776	3792
55	0	4	40	110	284	513	649	595	383	129	29	3	0	4	44	154	438	951	1600	2195	2578	2707	2736	2739
60	0	0	16	52	169	366	494	440	250	59	7	0	0	0	16	68	237	603	1097	1537	1787	1846	1853	1853
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	22	52	144	279	474	657	769	725	546	313	122	36	22	74	218	497	971	1628	2397	3122	3668	3981	4103	4139

(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