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: DANVILLE 2 W, OH **COOP ID: 332044**

Climate Division: OH 6 **NWS Call Sign:** **Elevation: 970 Feet** **Lat: 40˚26N** **Lon: 82˚18W**

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	33.0	14.6	23.8	67+	1999	23	33.7	1998	-35	1994	19	8.5	1977	1277	0	.0	.0	3.0	13.6	28.3	4.7
Feb	37.4	16.6	27.0	74	2000	27	37.2	1998	-22+	1985	4	11.7	1978	1064	0	.0	.0	5.5	9.3	24.5	3.2
Mar	48.4	25.1	36.8	83	1986	30	44.8	1973	-18	1984	9	27.2	1984	877	0	.0	.0	14.8	2.5	22.1	.4
Apr	59.8	33.3	46.6	89	1986	27	51.7	1985	2	1964	1	41.5	1975	553	0	.0	.0	25.1	.1	13.7	.0
May	70.7	44.4	57.6	94	1987	30	65.5	1991	20	1966	10	51.5	1997	264	32	.0	.3	30.8	.0	3.1	.0
Jun	79.3	53.9	66.6	102	1988	26	69.4	1971	27	1972	11	62.3	1992	53	100	@	2.0	30.0	.0	@	.0
Jul	83.4	58.2	70.8	102	1988	17	73.9	1999	35+	1988	1	67.4	2000	5	184	.1	5.2	31.0	.0	.0	.0
Aug	81.7	56.0	68.9	98+	1988	18	74.1	1995	32	1986	29	64.7	1992	29	149	.0	2.6	31.0	.0	@	.0
Sep	75.1	48.3	61.7	96	1985	7	65.7+	1978	25+	1963	30	57.8	1975	135	36	.0	1.0	30.0	.0	1.2	.0
Oct	63.2	36.3	49.8	86	1963	8	56.2	1971	15+	1988	31	43.7	1988	474	2	.0	.0	28.8	.0	11.0	.0
Nov	50.1	28.8	39.5	78	1987	4	45.0	1985	-2	1976	30	30.5	1976	767	0	.0	.0	16.1	1.2	19.1	@
Dec	38.3	20.6	29.5	74	1982	3	37.1	1982	-22	1989	24	16.2	1989	1102	0	.0	.0	6.0	8.0	25.9	2.0
Ann	60.0	36.3	48.2	102+	Jul 1988	17	74.1	Aug 1995	-35	Jan 1994	19	8.5	Jan 1977	6600	503	.1	11.1	252.1	34.7	148.9	10.3

\+ 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: 1963-2001

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

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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	2.67	2.40	2.65	2000	4	5.70	1995	.65	1981
Feb	2.44	2.19	2.36	1975	23	5.28	1988	.46	1987
Mar	3.14	2.99	2.80	1964	5	5.31	1980	.98	1990
Apr	3.68	3.78	2.25	1977	2	6.48	1996	1.05	1985
May	4.24	4.19	2.40	1971	6	8.70	1990	1.40	1977
Jun	4.74	4.34	3.20	1998	27	14.93	1998	.57	1988
Jul	4.26	3.75	3.96	1999	2	10.30	1992	1.38	1974
Aug	3.84	3.64	5.12	1980	11	9.93	1980	1.01	1993
Sep	3.32	3.07	5.22	1979	14	7.26	1979	.88	1998
Oct	2.64	2.07	2.87	1990	10	6.84	1990	.65	1994
Nov	3.33	3.14	2.00	1981	20	10.23	1985	.54	1976
Dec	3.13	2.84	2.30	2000	17	8.11	1990	.97	1976
Ann	41.43	41.51	5.22	Sep 1979	14	14.93	Jun 1998	.46	Feb 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.0	6.4	1.5	.4
Feb	11.3	5.8	1.3	.2
Mar	13.4	7.9	2.0	.3
Apr	14.0	8.3	2.4	.7
May	13.3	8.7	3.0	.8
Jun	11.6	8.2	3.2	1.2
Jul	10.4	7.4	2.6	1.1
Aug	10.2	6.4	2.7	.9
Sep	10.2	5.6	2.0	.9
Oct	10.9	5.9	1.5	.4
Nov	12.8	7.1	2.1	.6
Dec	13.7	7.0	2.0	.7
Ann	144.8	84.7	26.3	8.2

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	.82	1.07	1.45	1.78	2.09	2.42	2.77	3.20	3.74	4.59	5.37
Feb	.68	.92	1.27	1.57	1.87	2.18	2.53	2.94	3.47	4.30	5.07
Mar	1.42	1.70	2.08	2.40	2.69	2.98	3.30	3.66	4.11	4.79	5.41
Apr	1.33	1.68	2.18	2.60	3.00	3.40	3.85	4.37	5.03	6.05	6.98
May	1.68	2.07	2.62	3.08	3.52	3.96	4.44	4.99	5.69	6.76	7.73
Jun	1.11	1.55	2.25	2.87	3.49	4.14	4.87	5.75	6.90	8.72	10.43
Jul	1.35	1.76	2.36	2.87	3.37	3.88	4.44	5.10	5.95	7.27	8.50
Aug	1.16	1.52	2.07	2.54	2.99	3.47	3.99	4.60	5.39	6.63	7.78
Sep	1.14	1.46	1.92	2.30	2.67	3.05	3.47	3.95	4.58	5.54	6.42
Oct	.86	1.11	1.48	1.79	2.09	2.41	2.75	3.15	3.67	4.47	5.21
Nov	.98	1.30	1.77	2.18	2.58	3.00	3.46	4.00	4.70	5.79	6.80
Dec	1.29	1.58	1.98	2.31	2.62	2.94	3.28	3.67	4.17	4.93	5.62
Ann	31.20	33.23	35.80	37.73	39.44	41.08	42.77	44.62	46.86	50.08	52.86

\+ 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: 1963-2001
(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	12.4	9.7	2	2
Feb	8.3	8.5	2	1
Mar	4.4	3.5	#	#
Apr	1.3	.0	#	0
May	.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
Nov	1.9	1.0	#	#
Dec	7.1	7.1	1	#
Ann	35.4	29.8	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	9.0	1996	8	39.8	1978	22	1996	12	9	1977
Feb	10.0	1984	28	19.0	1985	15	1985	13	11	1978
Mar	5.5	1999	9	14.0	1988	13	1978	5	5	1978
Apr	14.0	1987	5	19.2	1987	5	1987	5	1	1987
May	1.0	1989	7	1.0	1989	1	1989	7	#	1989
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	.5	1989	19	.5	1989	1	1989	19	#+	1989
Nov	4.0	1980	17	7.0	1995	4	1980	17	#+	2000
Dec	12.0	1974	1	18.0	1974	12	1974	1	4	1974
Ann	14.0	Apr 1987	5	39.8	Jan 1978	22	Jan 1996	12	11	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	7.8	5.2	1.2	.5	.0
Feb	5.7	3.3	.7	.1	.1
Mar	2.9	2.0	.5	.1	.0
Apr	.7	.4	.1	.1	@
May	@	@	.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
Nov	1.7	1.2	.1	.0	.0
Dec	5.5	3.3	.7	.1	@
Ann	24.3	15.4	3.3	.9	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	14.7	7.8	5.0	1.6
Feb	11.2	5.7	4.1	1.5
Mar	4.2	1.7	.9	.2
Apr	.5	.1	.1	.0
May	@	.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
Nov	1.6	.1	.0	.0
Dec	8.1	3.2	1.3	.1
Ann	40.3	18.6	11.4	3.4

+ 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	6/13	6/07	6/02	5/29	5/25	5/22	5/18	5/13	5/06
32	5/27	5/22	5/18	5/15	5/12	5/09	5/05	5/02	4/26
28	5/18	5/13	5/08	5/05	5/01	4/28	4/24	4/20	4/14
24	4/30	4/26	4/23	4/20	4/18	4/16	4/13	4/10	4/06
20	4/22	4/17	4/13	4/10	4/08	4/05	4/02	3/29	3/24
16	4/10	4/04	3/30	3/26	3/23	3/19	3/16	3/11	3/05

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	9/04	9/08	9/12	9/14	9/17	9/19	9/22	9/25	9/30
32	9/14	9/18	9/21	9/24	9/27	9/29	10/02	10/05	10/09
28	9/27	10/02	10/05	10/08	10/11	10/14	10/17	10/20	10/25
24	10/09	10/14	10/18	10/21	10/24	10/27	10/30	11/03	11/08
20	10/22	10/27	10/30	11/03	11/06	11/08	11/12	11/15	11/20
16	11/04	11/10	11/14	11/17	11/21	11/24	11/27	12/01	12/07

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	136	128	123	118	114	109	104	99	91
32	156	149	145	141	137	134	130	125	119
28	181	174	170	166	162	158	154	149	143
24	208	201	196	192	188	184	180	175	168
20	236	227	221	216	211	206	201	195	187
16	267	259	252	247	242	237	232	225	217

***** 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	1277	1064	877	553	264	53	5	29	135	474	767	1102	6600
60	1122	924	722	405	157	14	0	5	54	330	617	947	5297
57	1029	840	629	319	107	6	0	1	27	253	527	854	4592
55	967	784	570	265	79	3	0	0	15	206	469	792	4150
50	813	649	427	147	31	0	0	0	3	112	330	648	3160
32	335	235	79	1	0	0	0	0	0	1	32	216	899

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	81	95	225	438	791	1038	1202	1143	891	552	255	137	6848
55	0	0	4	12	157	350	489	430	216	45	2	0	1705
57	0	0	0	6	123	293	427	368	168	29	0	0	1414
60	0	0	0	2	80	212	334	280	105	13	0	0	1026
65	0	0	0	0	32	100	184	149	36	2	0	0	503
70	0	0	0	0	10	30	69	60	6	0	0	0	175

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	19	27	118	278	579	826	975	925	683	353	132	39	19	46	164	442	1021	1847	2822	3747	4430	4783	4915	4954
45	4	12	67	169	426	676	820	770	533	225	72	15	4	16	83	252	678	1354	2174	2944	3477	3702	3774	3789
50	0	0	35	94	285	526	665	615	389	123	33	4	0	0	35	129	414	940	1605	2220	2609	2732	2765	2769
55	0	0	11	43	171	379	510	460	255	56	11	0	0	0	11	54	225	604	1114	1574	1829	1885	1896	1896
60	0	0	2	14	87	240	357	309	143	19	0	0	0	0	2	16	103	343	700	1009	1152	1171	1171	1171
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	5	23	92	198	371	542	653	616	445	244	87	21	5	28	120	318	689	1231	1884	2500	2945	3189	3276	3297

(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