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: DORSET, OH **COOP ID: 332251**

Climate Division: OH 3 **NWS Call Sign:** **Elevation: 980 Feet** **Lat: 41˚41N** **Lon: 80˚40W**

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	32.1	14.7	23.4	67	1995	15	33.1	1990	-28	1994	19	9.5	1977	1291	0	.0	.0	2.3	16.5	28.9	4.8
Feb	35.2	15.6	25.4	74	2000	27	35.7	1998	-28	1979	17	12.3	1979	1109	0	.0	.0	3.3	12.5	25.7	4.1
Mar	45.1	24.5	34.8	83	1986	31	43.5	1973	-20	1980	2	25.6	1984	937	0	.0	.0	10.5	5.4	23.5	1.0
Apr	56.7	34.1	45.4	88	1985	23	52.8	1985	-4	1982	4	38.2	1975	588	0	.0	.0	20.5	.5	13.9	@
May	68.2	44.2	56.2	90	1962	19	64.0	1991	21	1966	10	50.1	1997	298	25	.0	.0	30.0	.0	3.6	.0
Jun	77.1	53.3	65.2	99	1988	26	69.0	1971	30+	1981	1	60.4	1992	68	74	.0	.7	30.0	.0	.3	.0
Jul	81.4	57.3	69.4	100	1988	17	72.8	1987	37	1979	6	65.6	2000	13	147	@	2.5	31.0	.0	.0	.0
Aug	80.0	56.0	68.0	98	1988	3	73.3	1995	30	1982	29	63.9	1982	35	129	.0	1.3	31.0	.0	@	.0
Sep	73.2	49.0	61.1	95	1985	4	65.9	1971	26	1995	24	57.2	1976	146	28	.0	.5	30.0	.0	.9	.0
Oct	61.6	39.1	50.4	85+	1986	1	57.9	1971	15	1965	29	45.0	1988	457	3	.0	.0	27.3	.0	6.7	.0
Nov	48.6	31.6	40.1	83	1987	4	45.6	1975	2	1976	30	31.8	1976	748	0	.0	.0	13.4	1.6	17.4	.0
Dec	37.0	21.6	29.3	74	1982	4	37.2	1982	-22	1989	24	16.2	1989	1106	0	.0	.0	4.0	10.5	26.3	1.5
Ann	58.0	36.8	47.4	100	Jul 1988	17	73.3	Aug 1995	-28+	Jan 1994	19	9.5	Jan 1977	6796	406	@	5.0	233.3	47.0	147.2	11.4

\+ 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: 1956-2001

(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	2.60	2.48	1.63	1998	8	5.00	1979	.23	1984
Feb	2.26	2.09	1.75	1959	10	5.65	1981	.65	1978
Mar	3.13	2.96	2.04	1987	31	5.80	1974	.43	1990
Apr	3.64	3.34	1.63	1981	29	6.49	1998	1.66	1975
May	3.70	3.39	2.50	2000	19	8.33	1989	1.00	1993
Jun	4.53	4.31	3.20	1981	9	9.50	1986	1.15	1991
Jul	4.15	3.52	3.60	1984	10	10.71	1977	.66	1997
Aug	4.00	3.62	2.66	1987	22	8.58	1987	1.63+	1993
Sep	4.25	3.94	5.35	1979	14	8.63	1993	1.65	1978
Oct	3.75	3.70	3.90	1959	1	6.71	1995	1.74	1982
Nov	3.84	3.61	4.29	1985	5	11.33	1985	1.72	1991
Dec	3.41	3.12	1.91	1968	28	7.16	1979	1.86	1988
Ann	43.26	43.13	5.35	Sep 1979	14	11.33	Nov 1985	.23	Jan 1984

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.8	7.7	1.2	.1
Feb	10.5	7.0	1.1	.2
Mar	12.6	8.7	1.6	.2
Apr	12.8	9.2	2.4	.5
May	11.1	8.5	2.5	.6
Jun	11.0	8.6	3.6	.9
Jul	10.1	7.3	2.8	1.2
Aug	9.8	7.4	2.7	1.1
Sep	10.7	8.0	2.8	.9
Oct	12.1	8.7	2.6	.6
Nov	14.0	10.0	2.2	.4
Dec	13.8	9.3	1.9	.2
Ann	141.3	100.4	27.4	6.9

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	.73	.98	1.35	1.68	2.00	2.33	2.70	3.13	3.69	4.58	5.40
Feb	.76	.97	1.28	1.55	1.81	2.07	2.36	2.69	3.13	3.80	4.41
Mar	1.11	1.41	1.83	2.19	2.54	2.89	3.27	3.71	4.28	5.16	5.97
Apr	1.74	2.05	2.48	2.83	3.15	3.47	3.81	4.20	4.69	5.43	6.10
May	1.34	1.69	2.19	2.61	3.01	3.42	3.87	4.39	5.05	6.08	7.02
Jun	1.62	2.04	2.66	3.18	3.67	4.18	4.73	5.37	6.19	7.46	8.62
Jul	1.11	1.51	2.11	2.63	3.15	3.69	4.29	5.00	5.94	7.39	8.75
Aug	1.64	2.01	2.52	2.95	3.35	3.75	4.19	4.69	5.33	6.30	7.19
Sep	1.67	2.07	2.62	3.09	3.52	3.97	4.45	5.01	5.71	6.79	7.78
Oct	1.73	2.06	2.52	2.88	3.22	3.57	3.93	4.35	4.88	5.67	6.39
Nov	1.45	1.81	2.32	2.75	3.16	3.57	4.02	4.54	5.21	6.23	7.16
Dec	1.76	2.04	2.42	2.72	3.00	3.28	3.58	3.91	4.33	4.96	5.51
Ann	32.25	34.42	37.18	39.26	41.09	42.86	44.68	46.68	49.10	52.59	55.59

\+ 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: 1956-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	18.2	14.5	5	3
Feb	11.4	12.4	5	3
Mar	11.0	12.0	2	1
Apr	3.1	1.5	#	#
May	#	.0	#	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.6	.0	#	0
Nov	9.1	5.0	1	#
Dec	16.9	17.0	3	2
Ann	70.3	62.4	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	3	41.0	1978	26	1978	31	13	1978
Feb	12.0	1984	28	23.0	1979	30	1978	7	21	1978
Mar	13.0	1993	14	27.0	1971	20	1984	2	7	1978
Apr	10.0	1987	4	17.5	1987	14	1987	4	1	1987
May	#	1989	7	#+	1989	#+	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	4.0	1988	26	5.0	1992	4	1988	26	#+	2000
Nov	14.0	1989	22	32.0	1995	15	1996	13	4	1996
Dec	12.0	1989	16	37.5	1989	20	1977	12	8	1989
Ann	14.0	Nov 1989	22	41.0	Jan 1978	30	Feb 1978	7	21	Feb 1978

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	9.3	7.0	2.0	.5	.0
Feb	6.3	4.9	1.1	.6	.1
Mar	5.1	4.0	1.3	.5	.1
Apr	1.4	1.1	.3	.2	@
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	.4	.2	.1	.0	.0
Nov	3.2	3.0	1.0	.5	.1
Dec	8.1	6.6	2.2	1.0	@
Ann	33.8	26.8	8.0	3.3	.3

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	18.5	12.7	9.4	3.9
Feb	16.0	9.6	6.8	2.2
Mar	8.4	4.5	2.2	.6
Apr	1.5	.5	.3	.1
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	.4	.1	.0	.0
Nov	4.9	2.3	1.1	.2
Dec	13.5	8.2	5.1	1.6
Ann	63.2	37.9	24.9	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	6/17	6/12	6/08	6/05	6/02	5/31	5/27	5/24	5/19
32	6/08	6/01	5/28	5/24	5/20	5/16	5/12	5/07	4/30
28	5/14	5/10	5/07	5/04	5/02	4/30	4/27	4/24	4/20
24	5/01	4/26	4/23	4/20	4/18	4/15	4/12	4/09	4/04
20	4/17	4/13	4/10	4/08	4/05	4/03	4/01	3/29	3/25
16	4/10	4/05	4/02	3/30	3/27	3/25	3/22	3/18	3/14

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	9/05	9/10	9/14	9/18	9/21	9/24	9/28	10/02	10/07
32	9/13	9/19	9/24	9/28	10/01	10/05	10/09	10/13	10/20
28	10/03	10/09	10/13	10/17	10/20	10/24	10/27	10/31	11/06
24	10/19	10/24	10/27	10/31	11/03	11/05	11/09	11/12	11/17
20	11/06	11/11	11/15	11/18	11/21	11/24	11/27	11/30	12/05
16	11/14	11/20	11/24	11/28	12/01	12/05	12/08	12/13	12/19

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	130	123	118	114	110	106	102	97	90
32	159	150	144	139	134	129	123	117	109
28	190	183	179	174	170	167	162	157	151
24	220	213	207	203	198	194	189	184	176
20	248	241	236	232	229	225	221	216	209
16	272	264	258	253	248	244	239	233	225

***** 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)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1291	1109	937	588	298	68	13	35	146	457	748	1106	6796
60	1136	969	782	440	185	20	0	7	59	314	598	951	5461
57	1043	885	689	354	131	8	0	1	30	238	508	858	4745
55	981	829	629	300	100	4	0	0	17	193	450	796	4299
50	826	689	485	180	44	1	0	0	3	103	312	650	3293
32	339	254	108	4	0	0	0	0	0	1	27	213	946

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	71	69	194	406	750	996	1158	1117	873	569	270	130	6603
55	0	0	2	13	137	310	445	404	199	49	2	0	1561
57	0	0	0	6	106	254	383	343	152	32	1	0	1277
60	0	0	0	2	67	176	290	255	92	15	0	0	897
65	0	0	0	0	25	74	147	129	28	3	0	0	406
70	0	0	0	0	7	17	50	47	4	0	0	0	125

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	9	19	88	227	518	763	916	875	643	340	123	31	9	28	116	343	861	1624	2540	3415	4058	4398	4521	4552
45	1	4	48	140	373	613	761	720	495	213	64	9	1	5	53	193	566	1179	1940	2660	3155	3368	3432	3441
50	0	0	22	75	243	466	606	565	354	117	28	4	0	0	22	97	340	806	1412	1977	2331	2448	2476	2480
55	0	0	8	38	142	324	451	411	228	54	9	0	0	0	8	46	188	512	963	1374	1602	1656	1665	1665
60	0	0	1	11	70	198	302	263	129	15	2	0	0	0	1	12	82	280	582	845	974	989	991	991
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	1	10	56	148	317	493	604	573	405	197	67	9	1	11	67	215	532	1025	1629	2202	2607	2804	2871	2880

(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