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: GALLIPOLIS, OH **COOP ID: 333029**

Climate Division: OH 9 **NWS Call Sign:** **Elevation: 569 Feet** **Lat: 38˚49N** **Lon: 82˚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	40.7	20.5	30.6	79	1950	25	39.5	1993	-28	1994	19	15.8	1977	1066	0	.0	.0	8.7	7.2	24.6	1.5
Feb	45.7	22.9	34.3	78	2000	27	43.3	1976	-14	1996	4	21.2	1978	859	0	.0	.0	11.8	4.0	21.1	1.0
Mar	56.0	30.5	43.3	87	1945	25	51.2	1973	-9	1943	4	36.3	1984	675	0	.0	.0	22.6	.5	16.5	@
Apr	66.3	39.6	53.0	92	1960	25	57.9	1985	16+	1982	7	48.4	1982	366	3	.0	.2	28.2	@	7.3	.0
May	75.4	50.1	62.8	98	1939	26	69.9	1991	23	1966	10	57.7	1997	150	80	.0	1.2	31.0	.0	.8	.0
Jun	82.9	59.3	71.1	105+	1936	30	75.4	1987	34	1972	11	66.3	1972	16	200	.1	5.1	30.0	.0	.0	.0
Jul	86.6	64.0	75.3	109	1936	27	80.4	1988	43	1945	12	70.8	1984	1	320	.3	10.3	31.0	.0	.0	.0
Aug	85.1	62.3	73.7	108+	1936	22	80.3	1988	39	1965	29	69.6	1982	9	279	.3	7.7	31.0	.0	.0	.0
Sep	79.0	55.4	67.2	105	1953	1	71.7	1998	27	1942	29	63.3	1981	54	120	.0	2.3	30.0	.0	.1	.0
Oct	68.1	42.1	55.1	95+	1951	4	62.2	1984	15	1962	27	48.4	1976	329	22	.0	.0	30.3	.0	3.9	.0
Nov	56.3	33.3	44.8	89	1938	7	52.6	1985	0	1958	30	36.8	1976	606	0	.0	.0	21.3	.1	13.9	.0
Dec	45.5	25.3	35.4	80	1982	2	43.4	1984	-13+	1989	23	22.1	1989	917	0	.0	.0	12.6	3.6	22.1	.5
Ann	65.6	42.1	53.9	109	Jul 1936	27	80.4	Jul 1988	-28	Jan 1994	19	15.8	Jan 1977	5048	1024	.7	26.8	288.5	15.4	110.3	3.0

\+ 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: 1936-2001

(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	2.92	2.57	2.44	1999	22	6.40	1999	.82	1981
Feb	3.02	2.94	3.00	2000	19	6.91	1989	.61	1977
Mar	3.56	3.08	2.55	1997	2	8.33	1997	1.66	1971
Apr	3.17	2.72	3.35	1939	16	6.25	1998	.58	1976
May	4.01	3.83	2.74	1968	27	7.71	1995	.48	1991
Jun	3.88	4.09	3.09	1991	17	10.23	1998	.83	1984
Jul	4.40	4.32	4.73	1976	22	10.91	1980	.41	1972
Aug	3.78	3.31	4.25	1963	4	11.29	1979	.96	1981
Sep	2.97	2.65	3.80	1976	27	5.54	1976	.84	1983
Oct	2.67	2.23	2.20	1985	20	6.36	1983	.62	1992
Nov	3.05	2.78	2.28	1936	4	6.55	1986	.28	1976
Dec	3.27	2.68	2.43	1948	15	8.39	1990	1.26	1997
Ann	40.70	40.93	4.73	Jul 1976	22	11.29	Aug 1979	.28	Nov 1976

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.1	7.4	1.7	.4
Feb	10.5	6.7	1.7	.5
Mar	12.1	8.4	2.3	.4
Apr	11.9	7.6	2.1	.4
May	12.5	8.6	2.7	.8
Jun	10.9	7.8	2.3	.8
Jul	11.1	7.5	2.8	1.1
Aug	9.2	6.9	2.5	.9
Sep	9.7	6.3	2.0	.6
Oct	9.4	5.6	1.9	.5
Nov	11.6	6.7	1.9	.5
Dec	12.2	7.2	1.9	.6
Ann	133.2	86.7	25.8	7.5

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	.84	1.12	1.54	1.90	2.25	2.62	3.03	3.51	4.13	5.11	6.01
Feb	1.06	1.34	1.75	2.10	2.44	2.78	3.15	3.58	4.14	5.00	5.79
Mar	1.50	1.82	2.27	2.65	3.00	3.35	3.74	4.18	4.73	5.58	6.35
Apr	.90	1.20	1.65	2.05	2.44	2.84	3.29	3.81	4.50	5.57	6.57
May	1.44	1.82	2.36	2.82	3.26	3.70	4.19	4.75	5.48	6.59	7.61
Jun	1.26	1.63	2.17	2.63	3.08	3.54	4.04	4.63	5.39	6.57	7.66
Jul	1.09	1.50	2.14	2.71	3.27	3.87	4.53	5.32	6.35	7.99	9.52
Aug	1.18	1.54	2.07	2.53	2.97	3.43	3.93	4.52	5.28	6.46	7.56
Sep	.91	1.19	1.61	1.97	2.32	2.69	3.09	3.55	4.16	5.10	5.98
Oct	.72	.97	1.36	1.69	2.03	2.37	2.76	3.22	3.82	4.75	5.62
Nov	.91	1.20	1.63	2.01	2.37	2.75	3.17	3.66	4.30	5.30	6.22
Dec	1.20	1.51	1.95	2.31	2.67	3.02	3.41	3.87	4.45	5.34	6.15
Ann	31.19	33.09	35.48	37.28	38.86	40.38	41.94	43.65	45.71	48.68	51.22

\+ 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: 1936-2001
(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	6.0	6.0	1	#	14.0	1994	17	24.0	1978	21	1978	20	6	1978	3.0	2.8	.9	.3	@	6.1	3.4	1.8	.3
Feb	6.5	4.5	1	#	8.5	1986	14	23.0	1985	12	1985	3	5	1985	2.6	2.3	.7	.3	.0	5.7	3.3	1.5	.3
Mar	2.0	.0	#	0	20.0	1993	14	20.0	1993	20	1993	14	1+	1993	.8	.6	.2	.1	.1	.8	.5	.3	@
Apr	.0	.0	#	0	.7	1971	7	.7	1971	10	1987	5	1	1987	.1	.0	.0	.0	.0	.0	.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	#	1974	20	#	1974	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.5	.0	#	0	3.5	1971	24	4.5	1971	4	1971	24	#+	1989	.2	.2	.1	.0	.0	.3	@	.0	.0
Dec	1.4	.5	#	0	3.5	1993	28	4.0+	1981	3+	1984	6	#+	1985	.6	.6	.2	.0	.0	.6	.1	.0	.0
Ann	16.4	11.0	N/A	N/A	20.0	Mar 1993	14	24.0	Jan 1978	21	Jan 1978	20	6	Jan 1978	7.3	6.5	2.1	.7	.1	13.5	7.3	3.6	.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	5/22	5/17	5/13	5/09	5/06	5/03	4/30	4/26	4/20
32	5/12	5/07	5/03	4/30	4/27	4/25	4/21	4/18	4/13
28	4/30	4/24	4/20	4/16	4/13	4/09	4/05	4/01	3/26
24	4/15	4/10	4/07	4/04	4/01	3/29	3/26	3/22	3/17
20	4/05	3/30	3/25	3/21	3/17	3/13	3/09	3/05	2/26
16	3/26	3/18	3/13	3/08	3/04	2/27	2/22	2/17	2/09

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	9/25	9/30	10/03	10/06	10/08	10/11	10/14	10/17	10/22
32	10/03	10/08	10/12	10/15	10/19	10/22	10/25	10/29	11/03
28	10/12	10/18	10/22	10/26	10/29	11/02	11/05	11/09	11/15
24	10/23	10/29	11/02	11/05	11/09	11/12	11/16	11/20	11/25
20	11/01	11/08	11/14	11/19	11/23	11/27	12/02	12/08	12/15
16	11/07	11/18	11/26	12/03	12/09	12/16	12/22	12/30	1/10

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	178	170	164	159	154	150	145	139	131
32	198	189	183	178	173	169	164	158	149
28	227	217	210	204	199	193	187	180	171
24	246	238	231	226	221	216	211	205	197
20	281	270	263	256	250	244	238	230	220
16	312	299	290	283	277	270	263	256	245

***** 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	1066	859	675	366	150	16	1	9	54	329	606	917	5048
60	911	719	523	231	74	3	0	0	16	211	459	762	3909
57	818	635	437	162	43	1	0	0	6	153	376	673	3304
55	765	582	380	123	28	0	0	0	3	121	322	616	2940
50	619	453	254	51	8	0	0	0	0	59	203	473	2120
32	210	109	22	0	0	0	0	0	0	0	9	114	464

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	166	174	370	627	953	1174	1343	1293	1056	715	393	220	8484
55	9	3	15	60	268	484	630	580	369	123	16	9	2566
57	0	0	10	39	221	424	568	518	312	94	10	4	2200
60	0	0	3	18	159	336	475	425	232	59	3	0	1710
65	0	0	0	3	80	200	320	279	120	22	0	0	1024
70	0	0	0	0	31	92	181	153	45	6	0	0	508

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	58	85	231	443	735	958	1113	1071	841	516	234	96	58	143	374	817	1552	2510	3623	4694	5535	6051	6285	6381
45	27	42	137	307	580	808	958	916	691	369	138	43	27	69	206	513	1093	1901	2859	3775	4466	4835	4973	5016
50	6	17	77	192	428	658	803	761	541	235	75	20	6	23	100	292	720	1378	2181	2942	3483	3718	3793	3813
55	0	2	37	108	291	509	648	606	395	131	34	3	0	2	39	147	438	947	1595	2201	2596	2727	2761	2764
60	0	0	15	54	165	363	493	451	261	58	8	0	0	0	15	69	234	597	1090	1541	1802	1860	1868	1868
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	37	66	168	297	473	645	761	726	551	331	151	55	37	103	271	568	1041	1686	2447	3173	3724	4055	4206	4261

(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