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: JACKSON 3 NW, OH **COOP ID: 334004**

Climate Division: OH 9 **NWS Call Sign:** **Elevation: 800 Feet** **Lat: 39˚05N** **Lon: 82˚42W**

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	37.5	19.7	28.6	78	1950	26	37.3	1998	-31+	1963	29	13.5	1977	1130	0	.0	.0	5.8	9.7	27.4	2.4
Feb	42.0	21.3	31.7	78	1945	15	39.3	1976	-20	1951	3	17.6	1978	933	0	.0	.0	8.2	6.7	23.2	1.6
Mar	53.1	29.5	41.3	87	1945	25	49.6	1973	-15	1980	3	34.2	1996	735	0	.0	.0	18.3	1.4	19.4	.1
Apr	64.9	37.4	51.2	92+	1948	26	56.2	1985	14	1964	1	46.7	1975	416	1	.0	.1	26.4	@	8.6	.0
May	73.8	47.9	60.9	95	1949	5	66.9	1991	17	1966	10	55.3	1997	183	55	.0	.2	31.0	.0	1.2	.0
Jun	81.1	57.2	69.2	100+	1988	26	72.0	1984	31+	1972	11	64.2	1972	25	148	@	2.2	30.0	.0	@	.0
Jul	84.5	62.2	73.4	102+	1954	14	78.3	1999	40	1988	1	69.7	1996	4	262	.2	5.5	31.0	.0	.0	.0
Aug	83.0	60.5	71.8	102	1999	1	76.6	1995	34	1965	29	67.8	1992	13	222	.2	3.5	31.0	.0	.0	.0
Sep	76.4	52.9	64.7	102	1953	2	69.5	1998	27+	1963	25	61.2	1976	85	74	.0	.7	30.0	.0	.2	.0
Oct	65.2	40.2	52.7	93	1951	4	59.7	1984	11	1962	27	46.1	1988	391	10	.0	.0	29.7	.0	6.4	.0
Nov	53.1	32.1	42.6	83+	1961	4	49.6	1985	-11	1958	30	35.2	1976	673	0	.0	.0	17.8	.4	16.0	@
Dec	41.9	24.6	33.3	79	1982	4	40.9	1982	-20	1989	22	19.1	1989	983	0	.0	.0	8.6	5.8	24.0	.7
Ann	63.0	40.5	51.8	102+	Aug 1999	1	78.3	Jul 1999	-31+	Jan 1963	29	13.5	Jan 1977	5571	772	.4	12.2	267.8	24.0	126.4	4.8

\+ 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

Issue Date: February 2004

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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	2.89	2.64	2.76	1998	8	5.50	1999	.61	1981
Feb	2.85	2.72	3.19	2000	19	6.43	1989	.40	1977
Mar	3.82	3.25	4.89	1997	2	10.73	1997	1.27	1983
Apr	3.27	3.17	2.82	1975	25	7.21	1998	.96	1971
May	3.95	3.93	2.57	1968	24	9.36	1990	1.25	1999
Jun	4.00	3.66	3.91	1998	29	10.41	1998	.65	1988
Jul	4.10	3.72	3.76	1955	10	9.66	1980	1.38	1974
Aug	3.89	3.72	3.25	1999	25	8.68	1980	.89	1983
Sep	3.11	2.71	4.00	1947	5	6.33	1979	.63	1985
Oct	2.57	2.25	2.68	1959	9	6.36	1983	.46	1982
Nov	3.10	2.74	2.10	1985	27	8.85	1985	.19	1976
Dec	3.26	2.83	3.33	1948	15	7.51	1978	1.25	1976
Ann	40.81	40.64	4.89	Mar 1997	2	10.73	Mar 1997	.19	Nov 1976

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.1	7.0	1.6	.3
Feb	11.2	6.2	1.7	.6
Mar	13.4	8.3	2.9	.7
Apr	13.3	7.8	2.0	.4
May	13.2	8.5	2.7	.6
Jun	12.2	8.2	2.6	.9
Jul	11.6	7.8	2.7	1.1
Aug	10.0	6.6	2.5	1.0
Sep	9.0	5.8	1.9	.6
Oct	9.8	5.4	1.7	.3
Nov	11.7	6.3	2.2	.5
Dec	12.8	7.5	1.7	.7
Ann	141.3	85.4	26.2	7.7

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	.95	1.23	1.63	1.97	2.30	2.64	3.02	3.45	4.01	4.88	5.68
Feb	.81	1.08	1.49	1.85	2.20	2.56	2.96	3.43	4.04	5.00	5.89
Mar	1.36	1.72	2.24	2.68	3.10	3.52	3.99	4.53	5.22	6.29	7.27
Apr	1.06	1.37	1.82	2.21	2.59	2.98	3.40	3.90	4.54	5.54	6.46
May	1.35	1.72	2.27	2.73	3.17	3.63	4.13	4.71	5.45	6.61	7.67
Jun	1.21	1.59	2.16	2.65	3.13	3.62	4.16	4.80	5.62	6.91	8.10
Jul	1.67	2.05	2.58	3.02	3.43	3.85	4.30	4.82	5.47	6.48	7.40
Aug	1.27	1.64	2.18	2.64	3.09	3.55	4.05	4.64	5.40	6.58	7.66
Sep	1.01	1.31	1.74	2.11	2.47	2.84	3.24	3.71	4.32	5.26	6.14
Oct	.64	.88	1.26	1.59	1.92	2.27	2.65	3.11	3.72	4.67	5.56
Nov	.76	1.05	1.50	1.90	2.30	2.72	3.19	3.75	4.48	5.64	6.73
Dec	1.34	1.63	2.05	2.40	2.73	3.06	3.41	3.82	4.34	5.14	5.86
Ann	30.07	32.18	34.86	36.89	38.68	40.41	42.19	44.15	46.52	49.94	52.89

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	6.8	6.0	1	#
Feb	7.8	6.1	1	#
Mar	3.1	.3	#	0
Apr	1.0	.0	#	0
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	.0	.0	0	0
Nov	.4	.0	#	0
Dec	1.9	.0	#	#
Ann	21.0	12.4	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	6.5	1996	8	12.2	2000	12	1996	13	4	1996
Feb	7.0	1986	15	20.0	1986	14	1985	15	7	1985
Mar	10.5	1999	15	17.7	1999	10	1999	15	1	1999
Apr	13.0	1987	5	17.0	1987	#+	2000	9	#+	2000
May	.0	0	0	.0	0	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Nov	1.6	1996	21	3.2	1996	2	1997	17	#+	2000
Dec	5.0	1984	6	6.2	2000	5	1989	16	3	1974
Ann	13.0	Apr 1987	5	20.0	Feb 1986	14	Feb 1985	15	7	Feb 1985

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	2.7	2.3	.6	.2	.0
Feb	1.8	1.5	.4	.2	.0
Mar	.9	.7	.3	.1	.1
Apr	.1	.1	.1	.1	.1
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	.0	.0	.0	.0	.0
Nov	.3	.1	.0	.0	.0
Dec	1.6	.8	.1	.1	.0
Ann	7.4	5.5	1.5	.7	.2

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	3.1	1.5	.4	.0
Mar	1.2	.5	.2	.1
Apr	.0	.0	.0	.0
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	.0	.0	.0	.0
Nov	.3	.0	.0	.0
Dec	1.9	.4	.0	.0
Ann	-9.9	-9.9	-9.9	-9.9

+ 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	5/28	5/22	5/18	5/14	5/11	5/07	5/03	4/29	4/23
32	5/21	5/15	5/10	5/06	5/02	4/28	4/24	4/19	4/13
28	5/05	4/29	4/24	4/20	4/17	4/13	4/09	4/05	3/29
24	4/22	4/16	4/12	4/09	4/05	4/02	3/29	3/25	3/19
20	4/12	4/06	4/02	3/30	3/26	3/23	3/19	3/15	3/10
16	3/29	3/21	3/15	3/11	3/06	3/02	2/25	2/20	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	9/17	9/22	9/26	9/29	10/02	10/05	10/08	10/11	10/16
32	9/29	10/04	10/07	10/09	10/12	10/15	10/17	10/21	10/25
28	10/07	10/13	10/16	10/20	10/23	10/26	10/29	11/02	11/07
24	10/17	10/23	10/28	10/31	11/04	11/07	11/11	11/15	11/21
20	10/24	10/31	11/05	11/10	11/14	11/18	11/22	11/27	12/04
16	11/11	11/17	11/22	11/27	12/01	12/04	12/09	12/14	12/20

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	159	153	148	143	139	134	128	119
32	187	179	172	167	162	157	152	146	138
28	215	206	199	194	188	183	177	171	162
24	240	231	223	217	212	206	200	193	183
20	258	249	242	237	232	226	221	214	205
16	295	286	279	274	268	263	258	251	242

***** 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	1130	933	735	416	183	25	4	13	85	391	673	983	5571
60	975	793	580	274	95	5	0	1	30	259	523	828	4363
57	882	709	493	198	58	1	0	0	13	192	436	735	3717
55	820	655	435	153	39	0	0	0	7	154	382	680	3325
50	675	525	299	67	12	0	0	0	1	79	252	536	2446
32	234	155	34	0	0	0	0	0	0	0	16	150	589

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	127	146	322	575	896	1114	1281	1232	979	642	334	190	7838
55	0	2	10	38	222	424	568	519	296	83	9	7	2178
57	0	0	7	23	178	365	506	457	242	59	4	0	1841
60	0	0	0	9	123	278	413	365	169	33	1	0	1391
65	0	0	0	1	55	148	262	222	74	10	0	0	772
70	0	0	0	0	18	56	128	109	21	1	0	0	333

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	32	52	168	365	661	882	1045	999	753	430	182	61	32	84	252	617	1278	2160	3205	4204	4957	5387	5569	5630
45	9	23	93	246	507	732	890	844	604	290	102	28	9	32	125	371	878	1610	2500	3344	3948	4238	4340	4368
50	4	3	47	145	360	582	735	689	457	171	54	7	4	7	54	199	559	1141	1876	2565	3022	3193	3247	3254
55	0	0	22	76	228	433	580	534	315	89	22	2	0	0	22	98	326	759	1339	1873	2188	2277	2299	2301
60	0	0	5	33	122	293	426	379	195	37	6	0	0	0	5	38	160	453	879	1258	1453	1490	1496	1496
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	22	38	119	246	418	583	707	674	482	275	119	35	22	60	179	425	843	1426	2133	2807	3289	3564	3683	3718

(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