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: NEW LEXINGTON 2 NW, OH **COOP ID: 335857**

Climate Division: OH10 **NWS Call Sign:** **Elevation: 890 Feet** **Lat: 39˚44N** **Lon: 82˚13W**

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	36.0	15.9	26.0	75	1950	25	36.3	1998	-35	1994	19	11.2	1977	1210	0	.0	.0	4.8	10.8	27.7	3.8
Feb	40.8	18.0	29.4	76	2000	27	38.2	1998	-26	1951	3	14.2	1978	997	0	.0	.0	7.4	7.2	23.9	2.4
Mar	51.5	26.2	38.9	86	1945	25	47.1	1973	-12	1943	4	30.8	1984	810	0	.0	.0	17.7	1.6	21.2	.3
Apr	62.7	34.8	48.8	91	1970	30	54.0	1985	10	1964	1	44.2	1975	488	1	.0	.0	26.4	@	11.8	.0
May	72.8	46.0	59.4	94+	1962	18	66.2	1991	22+	1966	10	53.5	1997	216	42	.0	.5	30.9	.0	1.7	.0
Jun	80.4	55.1	67.8	100	1988	26	70.7	1991	32+	1972	11	63.5	1972	38	120	@	2.4	30.0	.0	@	.0
Jul	84.1	59.6	71.9	103	1954	14	75.7	1999	40+	1988	2	68.9	1979	4	216	@	6.1	31.0	.0	.0	.0
Aug	82.3	57.7	70.0	100+	1988	18	76.0	1995	36	1965	29	66.1	1982	22	177	.1	3.7	31.0	.0	.0	.0
Sep	76.3	50.4	63.4	101+	1953	3	67.1	1998	24	1942	29	59.5	1975	100	50	.0	1.0	30.0	.0	.3	.0
Oct	65.0	37.7	51.4	89+	1959	5	57.3	1971	14	1952	30	45.0	1988	428	4	.0	.0	29.4	.0	8.0	.0
Nov	52.3	29.1	40.7	88	1950	1	45.9	1985	-12	1958	30	31.6	1976	729	0	.0	.0	17.4	.6	17.8	@
Dec	41.0	21.5	31.3	77	1982	3	38.7	1982	-24	1989	23	16.8	1989	1046	0	.0	.0	7.4	6.2	25.2	1.1
Ann	62.1	37.7	49.9	103	Jul 1954	14	76.0	Aug 1995	-35	Jan 1994	19	11.2	Jan 1977	6088	610	.1	13.7	263.4	26.4	137.6	7.6

\+ 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: 1942-2001

(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	2.91	2.68	2.53	1998	8	5.09	1995	.89	1981
Feb	2.68	2.89	2.65	1988	2	4.97	1988	.45	1978
Mar	3.37	3.40	3.60	1964	10	5.87	1997	1.11	1979
Apr	3.73	3.39	2.06	1942	8	6.49	1983	.81	1971
May	4.39	4.10	3.22	1968	24	7.78	1990	.61	1991
Jun	4.31	3.97	3.95	1998	28	10.42	1998	1.30	1988
Jul	4.69	4.32	3.70	1963	20	12.77	1992	1.96	1998
Aug	3.88	3.08	4.06	1944	14	10.03	1979	.48	1996
Sep	2.82	2.33	2.52	1979	14	7.24	1975	.53	1985
Oct	2.61	2.18	2.60	1998	8	6.82	1983	.58	1992
Nov	3.36	3.05	2.53	1985	16	11.51	1985	.65	1976
Dec	3.08	2.89	2.00	2000	17	8.59	1990	1.13	1976
Ann	41.83	41.29	4.06	Aug 1944	14	12.77	Jul 1992	.45	Feb 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.3	7.7	1.4	.3
Feb	11.1	6.3	1.5	.4
Mar	12.0	8.0	2.2	.5
Apr	12.1	8.7	2.3	.7
May	12.0	9.0	3.1	.7
Jun	10.3	7.6	3.1	1.0
Jul	10.7	8.1	3.2	1.4
Aug	9.1	6.7	2.3	1.2
Sep	8.8	5.5	1.9	.7
Oct	9.0	6.4	1.6	.4
Nov	11.2	7.8	2.0	.7
Dec	13.0	7.3	1.8	.5
Ann	132.6	89.1	26.4	8.5

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	1.16	1.43	1.81	2.13	2.42	2.72	3.05	3.43	3.90	4.63	5.30
Feb	.85	1.10	1.48	1.80	2.12	2.44	2.79	3.21	3.74	4.58	5.35
Mar	1.43	1.74	2.16	2.51	2.84	3.18	3.53	3.94	4.46	5.25	5.97
Apr	1.40	1.75	2.25	2.66	3.06	3.47	3.91	4.42	5.07	6.07	6.98
May	1.41	1.83	2.44	2.97	3.48	4.00	4.58	5.25	6.12	7.47	8.72
Jun	1.57	1.98	2.56	3.05	3.51	3.99	4.51	5.11	5.88	7.06	8.15
Jul	1.74	2.18	2.81	3.34	3.84	4.35	4.91	5.56	6.38	7.65	8.81
Aug	.92	1.28	1.85	2.35	2.86	3.39	3.99	4.70	5.64	7.12	8.52
Sep	.75	1.02	1.42	1.78	2.13	2.50	2.91	3.40	4.03	5.02	5.95
Oct	.69	.93	1.31	1.64	1.97	2.31	2.70	3.15	3.74	4.67	5.54
Nov	.99	1.31	1.79	2.20	2.60	3.03	3.49	4.04	4.74	5.85	6.88
Dec	1.23	1.51	1.91	2.25	2.56	2.88	3.23	3.62	4.13	4.91	5.61
Ann	31.94	33.91	36.41	38.28	39.93	41.52	43.15	44.93	47.09	50.19	52.84

\+ 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: 1942-2001
(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	9.2	8.7	2	1	7.4	1978	9	34.4	1978	16	1978	21	9	1978	5.9	3.7	1.0	.2	.0	11.9	6.7	4.1	1.4
Feb	6.0	5.0	1	#	7.5	1985	13	16.4	1979	15	1985	17	10	1985	4.1	2.0	.5	.2	.0	8.1	4.3	2.2	.6
Mar	2.8	2.0	#	#	5.0	1999	10	10.8	1971	8	1999	10	1	1999	2.3	1.4	.3	@	.0	3.3	.9	.2	.0
Apr	.3	.0	#	0	6.0	1987	5	6.0	1987	14	1987	5	1	1987	.3	.1	.1	@	.0	.1	@	.0	.0
May	#	.0	0	0	#	1989	7	#	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	#	1988	12	#+	1988	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.7	.0	#	#	3.5	1977	28	5.4	1977	4	1977	29	#+	2000	.6	.4	@	.0	.0	.7	.1	.0	.0
Dec	3.2	2.3	#	#	5.3	1984	6	11.8	1989	7	1989	29	4	1989	2.9	1.5	.2	@	.0	5.0	1.6	.9	.0
Ann	22.2	18.0	N/A	N/A	7.5	Feb 1985	13	34.4	Jan 1978	16	Jan 1978	21	10	Feb 1985	16.1	9.1	2.1	.4	.0	29.1	13.6	7.4	2.0

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

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

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	154	148	143	139	135	132	128	123	117
32	173	167	162	158	154	150	146	141	135
28	204	197	192	187	183	179	175	170	163
24	227	219	214	209	205	200	195	190	182
20	248	241	237	233	229	225	221	217	210
16	283	274	268	263	258	253	248	242	233

***** 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	1210	997	810	488	216	38	4	22	100	428	729	1046	6088
60	1055	857	655	342	119	9	0	4	34	289	579	891	4834
57	962	773	562	260	76	3	0	0	15	216	490	798	4155
55	900	717	506	210	53	1	0	0	7	174	432	740	3740
50	755	586	364	107	18	0	0	0	1	90	296	596	2813
32	292	193	52	0	0	0	0	0	0	0	24	187	748

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	104	120	265	503	849	1072	1235	1178	940	600	284	165	7315
55	0	0	7	23	190	383	522	465	257	60	3	4	1914
57	0	0	0	13	150	324	460	403	205	41	1	0	1597
60	0	0	0	5	100	240	367	314	134	20	0	0	1180
65	0	0	0	1	42	120	216	177	50	4	0	0	610
70	0	0	0	0	13	40	90	80	10	0	0	0	233

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	26	42	149	331	637	862	1014	972	738	402	156	49	26	68	217	548	1185	2047	3061	4033	4771	5173	5329	5378
45	6	17	81	216	485	712	859	817	588	265	86	24	6	23	104	320	805	1517	2376	3193	3781	4046	4132	4156
50	2	3	40	121	337	562	704	662	440	154	40	6	2	5	45	166	503	1065	1769	2431	2871	3025	3065	3071
55	0	1	17	62	212	414	549	507	299	78	12	0	0	1	18	80	292	706	1255	1762	2061	2139	2151	2151
60	0	0	4	23	111	274	394	354	176	28	2	0	0	0	4	27	138	412	806	1160	1336	1364	1366	1366
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	18	35	112	232	407	570	688	650	472	268	104	32	18	53	165	397	804	1374	2062	2712	3184	3452	3556	3588

(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