

Climatology of the United States

No. 20

1971-2000

Station: CADIZ, OH

COOP ID: 331152

Climate Division: OH 7

NWS Call Sign:

Elevation: 1,260 Feet Lat: 40°16N

Lon: 81°00W

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	34.0	18.4	26.2	73	1906	21	35.7	1990	-24	1994	19	12.0	1977	1202	0	.0	.0	3.9	13.3	27.5	2.4
Feb	38.5	21.3	29.9	79	1948	13	38.0	1998	-17	1918	5	19.2	1978	983	0	.0	.0	6.4	9.2	22.9	1.4
Mar	48.9	29.6	39.3	86	1929	25	47.9	1973	-6	1980	2	30.6	1984	799	0	.0	.0	15.4	2.7	19.4	.1
Apr	60.0	39.7	49.9	92	1925	24	55.0	1985	5	1923	1	45.3	1989	456	1	.0	.0	24.9	.1	7.7	.0
May	70.2	50.6	60.4	96	1911	28	67.5	1991	23	1970	7	54.0	1997	201	57	.0	.0	30.8	.0	.5	.0
Jun	78.1	58.9	68.5	101	1933	21	72.1	1971	20	1915	29	64.8	1992	30	136	.0	.9	30.0	.0	.0	.0
Jul	81.9	63.0	72.5	104+	1936	10	76.1	1999	42+	1973	12	68.5	2000	3	235	@	2.8	31.0	.0	.0	.0
Aug	80.6	61.4	71.0	106	1918	6	75.6	1995	40+	1986	29	67.2	1992	13	199	.0	1.9	31.0	.0	.0	.0
Sep	74.5	54.5	64.5	100+	1953	3	68.4	1971	28	1942	29	60.8	1974	84	69	.0	.7	30.0	.0	.0	.0
Oct	63.1	42.3	52.7	91+	1939	10	60.1	1971	15	1925	29	45.5	1987	391	10	.0	.0	28.6	.0	3.8	.0
Nov	50.3	33.3	41.8	82	1961	3	47.7	1975	-2	1929	30	34.3	1976	695	0	.0	.0	16.1	1.3	14.4	.0
Dec	39.2	23.9	31.6	75	1982	3	39.9	1982	-26	1914	21	18.3	1989	1038	0	.0	.0	6.8	8.0	24.8	.8
Ann	59.9	41.4	50.7	106	Aug 1918	6	76.1	Jul 1999	-26	Dec 1914	21	12.0	Jan 1977	5895	707	@	6.3	254.9	34.6	121.0	4.7

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1903-2001

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

009-A

**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: CADIZ, OH

COOP ID: 331152

Climate Division: OH 7

NWS Call Sign:

Elevation: 1,260 Feet Lat: 40°16N

Lon: 81°00W

Precipitation (inches)

	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount											
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution											
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95	
Jan	2.83	2.54	2.14	1937	22	6.32	1999	.72	1981	13.3	7.1	1.5	.3	.88	1.15	1.55	1.89	2.23	2.57	2.95	3.39	3.96	4.85	5.68	
Feb	2.43	2.39	1.87	1975	24	4.47	1975	.29	1978	10.9	6.1	1.3	.3	.72	.95	1.30	1.60	1.89	2.19	2.53	2.92	3.43	4.23	4.97	
Mar	3.16	3.20	2.98	1945	6	4.89	1993	1.25	1979	12.6	8.0	1.7	.3	1.49	1.77	2.14	2.45	2.73	3.01	3.32	3.66	4.09	4.75	5.33	
Apr	3.38	3.46	2.22	1961	26	7.27	1981	.65	1971	12.8	8.7	2.1	.4	1.24	1.56	2.01	2.39	2.76	3.13	3.53	4.00	4.60	5.52	6.37	
May	4.16	4.86	2.92	1971	6	7.64	1983	1.09	1991	12.9	8.8	2.9	.7	1.36	1.75	2.33	2.83	3.30	3.80	4.33	4.97	5.78	7.04	8.20	
Jun	4.33	4.20	5.00	1990	15	9.65	1989	1.10	1999	11.4	8.2	3.1	.9	1.26	1.67	2.29	2.83	3.35	3.89	4.49	5.20	6.11	7.54	8.88	
Jul	4.38	3.43	3.34	1935	4	10.10	1980	1.38	1995	10.8	7.7	3.1	1.1	1.43	1.85	2.46	2.98	3.48	4.00	4.57	5.23	6.08	7.41	8.63	
Aug	4.15	3.83	2.86	1934	16	12.18	1980	1.30	1989	9.6	6.7	2.7	1.2	1.32	1.71	2.29	2.79	3.28	3.77	4.32	4.96	5.79	7.08	8.27	
Sep	3.21	2.99	3.52	1922	1	6.08	1996	.76	1984	9.3	6.3	2.3	.9	.98	1.28	1.74	2.13	2.51	2.90	3.34	3.85	4.50	5.53	6.48	
Oct	2.51	2.58	2.52	1968	19	5.32	1983	.17	1982	9.8	6.0	1.5	.4	.60	.84	1.21	1.53	1.86	2.20	2.59	3.04	3.64	4.59	5.49	
Nov	3.18	2.91	2.90+	1985	5	12.70	1985	.55	1976	12.1	7.4	1.9	.4	.92	1.23	1.68	2.07	2.46	2.86	3.30	3.82	4.50	5.55	6.54	
Dec	2.99	2.75	2.40	1914	4	7.78	1990	1.38	1993	13.3	7.2	1.6	.4	1.37	1.63	2.00	2.29	2.57	2.84	3.14	3.48	3.90	4.55	5.13	
Ann	40.71	39.79	5.00	Jun 1990	15	12.70	Nov 1985	.17	Oct 1982	138.8	88.2	25.7	7.3	30.65	32.64	35.17	37.07	38.75	40.37	42.03	43.86	46.06	49.24	51.97	

+ 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: 1903-2001

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

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Climatography of the United States

No. 20

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Station: CADIZ, OH

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Climate Division: OH 7

NWS Call Sign:

Elevation: 1,260 Feet

Lat: 40°16N

Lon: 81°00W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	11.4	11.5	2	#	8.0	1979	25	27.0	1979	10	1996	14	6	1994	5.9	4.5	1.3	.4	.0	-9.9	-9.9	-9.9	-9.9
Feb	6.3	5.0	1	#	6.0	1984	29	13.5	1979	12	1985	15	11	1985	3.4	2.7	1.0	.2	.0	4.2	2.1	.3	.0
Mar	4.8	4.0	#	#	10.0	1993	14	18.5	1993	12	1993	14	1	1999	2.5	2.0	.7	.2	@	1.9	.3	.0	.0
Apr	1.1	.0	#	0	8.0	1987	4	19.0	1987	9	1987	5	#+	1992	.4	.2	.2	.1	.0	.2	.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	.1	.0	0	0	2.0	1993	31	2.0	1993	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	1.7	1.0	#	0	8.0	1980	18	10.5	1980	3	1995	17	1	1995	1.4	.9	.1	@	.0	.5	.0	.0	.0
Dec	6.3	6.5	1	#	7.0	1974	1	18.0	1974	11	1974	2	9	1974	4.1	2.7	.7	.2	.0	4.4	.8	.4	.0
Ann	31.7	28.0	N/A	N/A	10.0	Mar 1993	14	27.0	Jan 1979	12+	Mar 1993	14	11	Feb 1985	17.7	13.0	4.0	1.1	@	-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

Complete documentation available from:

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NWS Call Sign:

Elevation: 1,260 Feet

Lat: 40° 16N

Lon: 81° 00W

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	5/23	5/18	5/14	5/11	5/08	5/04	5/01	4/27	4/22
32	5/09	5/05	5/02	4/29	4/27	4/24	4/22	4/19	4/14
28	4/29	4/24	4/21	4/18	4/15	4/13	4/10	4/06	4/02
24	4/18	4/14	4/11	4/08	4/05	4/03	3/31	3/28	3/24
20	4/11	4/06	4/03	3/31	3/28	3/25	3/23	3/19	3/14
16	4/04	3/29	3/25	3/21	3/18	3/14	3/11	3/06	3/01
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	9/22	9/26	9/30	10/03	10/05	10/08	10/11	10/14	10/19
32	10/04	10/09	10/12	10/15	10/18	10/21	10/23	10/27	11/01
28	10/15	10/21	10/25	10/28	10/31	11/03	11/06	11/10	11/16
24	10/26	10/31	11/04	11/07	11/10	11/14	11/17	11/21	11/26
20	11/07	11/13	11/17	11/21	11/24	11/28	12/01	12/06	12/12
16	11/19	11/25	11/29	12/03	12/06	12/10	12/13	12/18	12/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	169	162	158	154	150	146	142	138	131
32	192	186	181	177	173	170	166	161	154
28	218	211	206	202	198	194	190	185	179
24	242	234	228	223	218	214	209	203	195
20	263	255	249	245	240	236	231	225	218
16	285	277	272	267	263	258	254	248	241

* 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

Complete documentation available from:

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Elevation: 1,260 Feet Lat: 40°16N Lon: 81°00W

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	1202	983	799	456	201	30	3	13	84	391	695	1038	5895
60	1047	843	644	313	112	7	0	1	29	260	546	883	4685
57	954	759	556	235	72	2	0	0	12	193	458	790	4031
55	892	703	498	188	51	1	0	0	6	154	402	731	3626
50	744	566	360	95	18	0	0	0	1	79	271	587	2721
32	281	167	54	0	0	0	0	0	0	0	20	181	703

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	102	108	278	536	879	1096	1255	1209	975	641	315	166	7560
55	0	0	9	34	217	407	542	496	291	83	7	3	2089
57	0	0	5	21	176	348	480	434	237	59	3	0	1763
60	0	0	0	8	123	262	387	342	164	33	1	0	1320
65	0	0	0	1	57	136	235	199	69	10	0	0	707
70	0	0	0	0	20	48	103	90	18	1	0	0	280

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	31	45	146	342	645	866	1015	976	752	426	170	51	31	76	222	564	1209	2075	3090	4066	4818	5244	5414	5465
45	8	19	87	221	492	716	860	821	602	289	97	22	8	27	114	335	827	1543	2403	3224	3826	4115	4212	4234
50	0	4	46	134	345	566	705	666	453	172	46	8	0	4	50	184	529	1095	1800	2466	2919	3091	3137	3145
55	0	0	20	72	219	419	550	511	314	92	18	1	0	0	20	92	311	730	1280	1791	2105	2197	2215	2216
60	0	0	4	33	119	277	396	356	187	37	5	0	0	0	4	37	156	433	829	1185	1372	1409	1414	1414
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	9	26	97	208	384	569	692	661	471	247	92	27	9	35	132	340	724	1293	1985	2646	3117	3364	3456	3483

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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