

Climatography of the United States

No. 20

1971-2000

Station: PAULDING, OH

COOP ID: 336465

Climate Division: OH 1

NWS Call Sign:

Elevation: 725 Feet Lat: 41°08N Lon: 84°35W

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	30.0	13.9	22.0	69+	1950	26	32.5	1998	-25	1984	21	7.8	1977	1335	0	.0	.0	1.7	16.3	29.4	5.5
Feb	33.9	16.8	25.4	73	2000	26	36.3	1998	-20	1982	10	9.0	1978	1111	0	.0	.0	2.7	12.2	26.2	3.9
Mar	45.3	26.1	35.7	83	1938	22	42.8	1973	-13	1943	8	26.6	1984	908	0	.0	.0	11.0	3.7	23.4	.4
Apr	58.1	35.8	47.0	89+	1942	30	53.3	1985	7	1982	7	40.0	1975	541	1	.0	.0	23.3	.1	10.3	.0
May	70.0	47.0	58.5	94+	1962	18	65.0	1998	23	1966	10	51.6	1997	249	48	.0	.5	30.4	.0	1.1	.0
Jun	79.2	56.8	68.0	104	1988	26	72.7	1971	34	1966	1	63.3	1972	43	133	.1	3.2	30.0	.0	.0	.0
Jul	83.2	60.4	71.8	111	1936	14	77.0	1999	44+	1968	4	69.2	1984	6	217	.1	5.8	31.0	.0	.0	.0
Aug	81.1	57.8	69.5	102	1948	27	75.7	1995	36	1965	29	65.4	1976	33	169	.0	2.7	31.0	.0	.0	.0
Sep	74.8	50.0	62.4	102+	1953	2	67.0	1998	26+	1942	29	57.0	1975	123	45	.0	1.4	30.0	.0	.5	.0
Oct	62.4	38.7	50.6	92	1951	4	57.9	1971	16+	1968	28	43.9	1976	455	7	.0	.0	27.6	.0	7.3	.0
Nov	48.1	30.1	39.1	80	1950	1	44.2	1999	-2+	1950	25	30.6	1976	778	0	.0	.0	13.3	1.5	18.8	.0
Dec	35.3	20.1	27.7	70	1982	3	36.0	1982	-20	1989	22	13.8	1989	1156	0	.0	.0	3.6	10.4	27.7	1.9
Ann	58.5	37.8	48.1	111	Jul 1936	14	77.0	Jul 1999	-25	Jan 1984	21	7.8	Jan 1977	6738	620	.2	13.6	235.6	44.2	144.7	11.7

+ 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: 1936-2001

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

065-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: PAULDING, OH

COOP ID: 336465

Climate Division: OH 1

NWS Call Sign:

Elevation: 725 Feet Lat: 41°08N

Lon: 84°35W

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	1.91	1.80	2.00	1952	17	4.58	1999	.31	1981	9.9	4.9	1.0	.3	.42	.60	.88	1.13	1.39	1.65	1.96	2.32	2.79	3.55	4.26
Feb	1.76	1.71	2.12	1997	27	5.98	1990	.00	1987	8.8	4.5	.9	.2	.26	.49	.79	1.03	1.28	1.54	1.82	2.16	2.61	3.32	3.98
Mar	2.68	2.37	2.00	1945	31	5.56	1973	.41	1981	10.4	6.3	1.6	.3	.91	1.16	1.53	1.85	2.15	2.46	2.80	3.19	3.70	4.48	5.21
Apr	3.29	3.16	2.96	1955	24	5.62	1972	1.07	1971	12.1	7.2	2.1	.6	1.35	1.65	2.08	2.43	2.76	3.09	3.45	3.86	4.39	5.19	5.92
May	3.78	3.71	3.93	1970	13	8.31	1997	.98	1988	11.5	7.6	2.4	.8	1.60	1.94	2.42	2.81	3.18	3.56	3.96	4.42	5.01	5.90	6.71
Jun	3.48	3.07	3.35	1951	8	7.71	1981	.24	1988	10.1	6.5	2.5	.8	.78	1.10	1.61	2.07	2.53	3.02	3.57	4.23	5.09	6.47	7.77
Jul	3.36	2.90	2.77	1942	31	7.32	1997	1.19	1974	9.4	6.2	2.4	.8	1.26	1.57	2.02	2.40	2.75	3.12	3.51	3.97	4.55	5.45	6.27
Aug	3.10	2.44	3.43	1998	5	8.18	1998	.81	1983	9.0	5.7	2.0	.6	.79	1.09	1.54	1.93	2.32	2.74	3.20	3.74	4.45	5.57	6.62
Sep	3.04	2.39	6.39	1972	14	11.28	1972	.65	1994	9.2	5.6	2.2	.4	.58	.86	1.30	1.71	2.13	2.58	3.08	3.70	4.51	5.81	7.05
Oct	2.49	2.26	3.50	1991	26	7.61	1991	.35	1982	10.1	5.7	1.7	.3	.74	.98	1.33	1.64	1.94	2.24	2.58	2.98	3.50	4.31	5.06
Nov	2.91	2.65	2.25	1982	2	7.29	1982	.32	1976	10.9	5.9	1.8	.5	.72	.99	1.42	1.79	2.16	2.56	3.00	3.52	4.20	5.27	6.29
Dec	2.64	2.41	2.10	1968	28	6.40	1990	.52	1976	11.8	6.2	1.8	.4	.84	1.09	1.46	1.78	2.08	2.40	2.75	3.16	3.69	4.51	5.27
Ann	34.44	34.06	6.39	Sep 1972	14	11.28	Sep 1972	.00	Feb 1987	123.2	72.3	22.4	6.0	25.39	27.16	29.42	31.13	32.63	34.09	35.58	37.23	39.22	42.10	44.58

+ 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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Station: PAULDING, OH

COOP ID: 336465

Climate Division: OH 1

NWS Call Sign:

Elevation: 725 Feet

Lat: 41°08N

Lon: 84°35W

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	5.5	3.2	1	#	6.5	1982	31	20.7	1999	15	1999	16	7	1999	4.5	1.9	.7	.2	.0	9.7	5.0	2.8	.0
Feb	5.0	4.4	1	#	8.1	1982	1	13.1	1986	20	1982	9	10	1982	3.7	1.9	.5	.2	.0	-9.9	-9.9	-9.9	-9.9
Mar	3.5	3.0	#	0	8.4	1999	9	11.8	1999	10	1999	10	1	1999	1.7	1.2	.4	.1	.0	1.4	.4	.2	.1
Apr	.4	.0	#	0	4.0	1982	6	7.5	1982	1	1973	12	#+	1977	.4	.1	.1	.0	.0	.1	.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	1989	19	2.0	1989	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	1.4	.7	#	0	7.0	1974	14	7.3	1974	7	1974	14	1	1997	1.0	.3	.1	@	.0	.6	.2	@	.0
Dec	5.5	6.3	1	#	11.0	1973	20	14.8	1973	15	1977	9	5	1977	3.8	1.9	.5	.1	@	4.5	2.3	1.3	.0
Ann	21.4	17.6	N/A	N/A	11.0	Dec 1973	20	20.7	Jan 1999	20	Feb 1982	9	10	Feb 1982	15.1	7.3	2.3	.6	@	-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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Lon: 84°35W

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	5/25	5/21	5/17	5/15	5/12	5/09	5/07	5/03	4/29
32	5/14	5/08	5/04	5/01	4/28	4/24	4/21	4/17	4/11
28	5/03	4/28	4/25	4/22	4/19	4/16	4/13	4/09	4/04
24	4/18	4/14	4/11	4/08	4/06	4/03	4/01	3/28	3/24
20	4/14	4/08	4/04	4/01	3/29	3/26	3/22	3/19	3/13
16	4/02	3/28	3/24	3/20	3/17	3/14	3/10	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	9/18	9/22	9/25	9/27	9/30	10/02	10/04	10/07	10/11
32	9/22	9/27	10/01	10/04	10/07	10/10	10/14	10/17	10/23
28	10/04	10/09	10/13	10/16	10/19	10/22	10/26	10/30	11/04
24	10/14	10/20	10/25	10/28	11/01	11/04	11/08	11/12	11/18
20	10/31	11/06	11/11	11/15	11/19	11/23	11/27	12/01	12/08
16	11/09	11/16	11/21	11/26	11/30	12/04	12/08	12/14	12/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	157	151	147	143	140	136	133	128	122
32	184	177	171	166	162	157	153	147	139
28	206	198	192	187	183	178	173	168	160
24	233	224	218	213	208	203	198	192	184
20	264	253	246	240	234	228	222	215	205
16	283	274	268	262	257	252	247	240	231

* 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	1335	1111	908	541	249	43	6	33	123	455	778	1156	6738
60	1180	971	753	395	151	12	0	7	49	317	628	1001	5464
57	1087	887	660	312	104	5	0	2	24	244	538	908	4771
55	1025	831	599	261	79	2	0	0	14	201	479	846	4337
50	870	695	456	149	33	0	0	0	3	113	340	702	3361
32	371	271	94	2	0	0	0	0	0	2	35	258	1033

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	59	85	209	451	822	1080	1233	1160	912	577	247	125	6960
55	0	0	1	20	187	393	520	447	235	63	2	0	1868
57	0	0	0	11	151	335	458	386	186	44	1	0	1572
60	0	0	0	5	104	252	365	299	121	24	0	0	1170
65	0	0	0	1	48	133	217	169	45	7	0	0	620
70	0	0	0	0	17	51	96	78	10	0	0	0	252

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	5	14	92	266	601	867	1009	934	692	360	111	21	5	19	111	377	978	1845	2854	3788	4480	4840	4951	4972
45	0	3	47	164	451	717	854	779	544	231	61	7	0	3	50	214	665	1382	2236	3015	3559	3790	3851	3858
50	0	0	21	86	310	567	699	624	397	133	22	2	0	0	21	107	417	984	1683	2307	2704	2837	2859	2861
55	0	0	6	44	193	420	544	469	264	63	7	0	0	0	6	50	243	663	1207	1676	1940	2003	2010	2010
60	0	0	1	15	98	278	389	315	152	19	0	0	0	0	1	16	114	392	781	1096	1248	1267	1267	1267
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	0	9	60	166	366	562	677	619	437	223	66	10	0	9	69	235	601	1163	1840	2459	2896	3119	3185	3195

(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