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: PORTSMOUTH SCIOTOVILLE, OH **COOP ID: 336781**

Climate Division: OH 9 **NWS Call Sign:** **Elevation: 540 Feet** **Lat: 38˚45N** **Lon: 82˚53W**

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	39.5	20.1	29.8	79	1950	25	39.1	1998	-29	1994	19	15.5	1977	1091	0	.0	.0	6.7	8.4	25.5	1.4
Feb	44.1	23.0	33.6	79	1945	15	43.1	1976	-8	1985	3	21.6	1978	881	0	.0	.0	9.8	5.0	21.4	.5
Mar	55.0	31.4	43.2	89	1945	25	51.8	1973	0	1980	3	36.3	1984	676	0	.0	.0	20.2	.7	15.4	@
Apr	65.7	41.2	53.5	94+	1954	21	58.1	1981	12	1982	4	48.7	1982	350	3	.0	.2	27.6	.0	4.6	.0
May	74.6	51.3	63.0	97+	1941	22	69.5	1991	28	1986	4	57.9	1997	142	79	.0	.8	31.0	.0	.1	.0
Jun	82.1	60.0	71.1	102+	1954	27	74.4	1999	38	1988	10	66.1	1972	16	196	@	4.7	30.0	.0	.0	.0
Jul	85.8	64.0	74.9	105+	1954	15	80.9	1999	40	1988	1	71.1	1984	0	308	.4	9.5	31.0	.0	.0	.0
Aug	84.8	61.7	73.3	104	1988	18	78.6	1995	35	1986	30	69.0	1986	9	264	.2	7.1	31.0	.0	.0	.0
Sep	78.3	54.3	66.3	103	1954	7	71.6	1998	31+	1989	24	62.9	1981	66	106	@	2.2	30.0	.0	.2	.0
Oct	67.5	41.5	54.5	94	1953	1	62.8	1971	21	1962	27	48.8	1988	340	14	.0	.0	30.3	.0	3.9	.0
Nov	55.1	33.1	44.1	85	1938	7	48.5	1994	2	1950	25	37.1	1996	627	0	.0	.0	19.7	.2	13.5	.0
Dec	44.3	25.4	34.9	76	1971	11	43.4	1971	-18	1989	23	20.1	1989	934	0	.0	.0	10.5	4.3	22.1	.7
Ann	64.7	42.3	53.5	105+	Jul 1954	15	80.9	Jul 1999	-29	Jan 1994	19	15.5	Jan 1977	5132	970	.6	24.5	277.8	18.6	106.7	2.6

\+ 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: 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	3.20	2.99	2.52	1998	8	6.39	1999	.89	1981
Feb	2.92	2.87	2.45	1956	25	7.24	1989	.63	1977
Mar	3.66	3.07	3.74	1997	2	10.64	1997	.93	1983
Apr	3.35	3.05	4.42	1939	15	5.91	1972	.91	1971
May	4.33	4.30	2.53	1944	17	9.13	1996	1.13	1999
Jun	3.88	3.90	2.48	1994	8	7.18	1979	.55	1988
Jul	4.12	3.85	5.02	1938	2	9.14	1979	1.46	1974
Aug	4.07	3.81	3.83	1947	7	8.54	1995	.53	1973
Sep	3.06	2.37	6.40	1976	27	10.11	1976	.60	1982
Oct	2.54	2.18	2.50	1955	7	7.25	1983	.00	2000
Nov	3.00	2.86	2.05	1972	1	6.76	1986	.48	1981
Dec	3.32	2.85	2.50+	2000	17	9.89	1978	1.09	1976
Ann	41.45	40.28	6.40	Sep 1976	27	10.64	Mar 1997	.00	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.7	7.2	1.7	.6
Feb	10.5	6.3	1.6	.7
Mar	11.9	8.3	2.7	.5
Apr	12.2	7.9	2.3	.4
May	12.8	8.5	3.3	.8
Jun	11.3	7.6	2.7	.8
Jul	10.8	7.6	2.9	1.0
Aug	9.7	6.4	2.6	1.2
Sep	8.5	4.9	2.0	.7
Oct	8.7	5.6	1.7	.4
Nov	10.7	6.5	2.0	.5
Dec	12.0	6.7	2.0	.7
Ann	130.8	83.5	27.5	8.3

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	1.05	1.35	1.80	2.18	2.54	2.92	3.33	3.82	4.44	5.40	6.29
Feb	.92	1.20	1.61	1.96	2.30	2.65	3.04	3.49	4.07	4.98	5.82
Mar	1.14	1.49	2.01	2.45	2.88	3.32	3.80	4.37	5.11	6.26	7.32
Apr	1.24	1.56	2.01	2.38	2.74	3.10	3.50	3.96	4.55	5.45	6.28
May	1.63	2.03	2.61	3.09	3.55	4.02	4.53	5.11	5.86	7.02	8.07
Jun	1.22	1.59	2.14	2.61	3.06	3.53	4.04	4.64	5.42	6.62	7.74
Jul	1.65	2.03	2.57	3.01	3.43	3.85	4.31	4.84	5.51	6.54	7.48
Aug	1.11	1.49	2.08	2.59	3.10	3.62	4.21	4.90	5.81	7.22	8.54
Sep	.53	.79	1.24	1.66	2.09	2.55	3.09	3.73	4.59	5.99	7.32
Oct	.39	.73	1.17	1.52	1.87	2.23	2.64	3.12	3.75	4.75	5.68
Nov	.86	1.14	1.57	1.95	2.31	2.69	3.11	3.61	4.25	5.25	6.19
Dec	1.07	1.39	1.85	2.25	2.63	3.02	3.46	3.96	4.62	5.63	6.57
Ann	31.97	33.86	36.24	38.03	39.61	41.12	42.67	44.37	46.42	49.36	51.88

\+ 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	6.6	4.8	1	#
Feb	4.7	2.6	1	#
Mar	2.1	1.0	#	#
Apr	.3	.0	#	0
May	#	.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
Nov	.4	.0	#	0
Dec	1.2	.7	#	#
Ann	15.3	9.1	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	18.5	1994	17	26.3	1994	22	1978	20	13	1994
Feb	6.8	1971	9	14.0	1985	9	1978	18	6	1978
Mar	6.0	1993	14	8.0	1993	8+	1993	14	2	1978
Apr	5.0	1987	5	6.5	1987	5	1987	5	#+	1987
May	#	1989	7	#	1989	#	1989	7	#	1989
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	#	1974	20	#	1974	0	0	0	0	0
Nov	2.2	1971	25	4.2	1971	3	1971	25	#+	1995
Dec	3.5	1984	6	8.9	1989	5	1993	29	2	1989
Ann	18.5	Jan 1994	17	26.3	Jan 1994	22	Jan 1978	20	13	Jan 1994

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	3.6	2.0	.6	.2	.1
Feb	3.0	1.6	.4	.1	.0
Mar	1.3	.6	.2	.1	.0
Apr	.2	.1	@	@	.0
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	.2	.0	.0	.0
Dec	1.4	.5	.1	.0	.0
Ann	9.8	5.0	1.3	.4	.1

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	5.7	3.3	2.1	.5
Feb	5.3	3.1	1.7	.0
Mar	1.3	.6	.2	.0
Apr	.1	.1	@	.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
Dec	1.2	.9	.2	.0
Ann	13.9	8.0	4.2	.5

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

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	9/19	9/25	9/29	10/03	10/06	10/10	10/13	10/18	10/24
32	9/28	10/05	10/09	10/13	10/17	10/20	10/24	10/29	11/04
28	10/14	10/20	10/25	10/29	11/01	11/05	11/08	11/13	11/19
24	10/24	10/30	11/03	11/06	11/10	11/13	11/17	11/21	11/27
20	11/06	11/14	11/19	11/23	11/28	12/02	12/07	12/12	12/19
16	11/13	11/23	11/30	12/06	12/12	12/17	12/23	12/30	1/09

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	180	171	165	160	156	151	146	140	132
32	207	199	193	187	182	177	172	166	157
28	237	227	220	214	209	203	197	190	181
24	256	247	241	235	230	225	219	213	203
20	295	285	278	271	266	260	253	246	236
16	317	306	298	292	286	281	275	268	258

***** 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	1091	881	676	350	142	16	0	9	66	340	627	934	5132
60	936	741	526	216	68	3	0	0	22	216	478	779	3985
57	843	657	440	148	37	1	0	0	9	155	391	691	3372
55	783	603	384	110	24	0	0	0	5	120	336	634	2999
50	640	473	260	43	6	0	0	0	1	55	210	490	2178
32	218	117	26	0	0	0	0	0	0	0	8	125	494

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	149	160	373	643	960	1170	1331	1279	1030	697	372	214	8378
55	2	2	18	63	271	480	618	566	344	104	10	9	2487
57	0	0	12	41	222	421	556	504	288	77	4	5	2130
60	0	0	5	19	159	333	463	411	211	45	1	0	1647
65	0	0	0	3	79	196	308	264	106	14	0	0	970
70	0	0	0	0	30	89	164	140	39	3	0	0	465

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	41	73	213	440	732	954	1106	1050	815	487	218	77	41	114	327	767	1499	2453	3559	4609	5424	5911	6129	6206
45	18	30	128	304	577	804	951	895	665	342	130	38	18	48	176	480	1057	1861	2812	3707	4372	4714	4844	4882
50	4	11	67	190	427	654	796	740	515	216	70	14	4	15	82	272	699	1353	2149	2889	3404	3620	3690	3704
55	0	1	36	105	286	504	641	585	372	117	29	1	0	1	37	142	428	932	1573	2158	2530	2647	2676	2677
60	0	0	9	53	166	358	486	431	240	56	7	0	0	0	9	62	228	586	1072	1503	1743	1799	1806	1806
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	27	49	141	272	464	637	756	717	530	303	134	43	27	76	217	489	953	1590	2346	3063	3593	3896	4030	4073

(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