

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: WASHINGTON COURT HOUSE, OH

1971-2000

COOP ID: 338794

Climate Division: OH 5

NWS Call Sign:

Elevation: 960 Feet

Lat: 39° 32N

Lon: 83° 26W

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	35.7	20.4	28.1	74	1950	25	38.6	1990	-27	1994	19	13.7	1977	1145	0	.0	.0	4.1	12.2	27.0	2.3
Feb	40.7	23.5	32.1	74	2000	25	40.5	1976	-14+	1951	3	17.5	1978	921	0	.0	.0	6.8	8.1	21.9	1.3
Mar	51.7	32.0	41.9	87	1945	28	50.5	1973	-6	1943	4	33.8	1984	719	0	.0	.0	16.9	2.0	17.5	.1
Apr	63.3	40.9	52.1	89	1985	22	58.2	1985	16	1995	5	47.8	1975	391	3	.0	.0	26.4	@	5.9	.0
May	72.3	51.8	62.1	92+	1962	18	69.5	1991	26+	1966	10	56.7	1997	171	79	.0	.1	30.9	.0	.2	.0
Jun	79.4	60.7	70.1	100+	1988	25	74.0	1991	38	1945	6	65.3	1972	22	174	@	1.2	30.0	.0	.0	.0
Jul	82.8	64.6	73.7	104	1936	14	78.0	1999	46+	1950	14	70.9	1984	1	270	.0	3.4	31.0	.0	.0	.0
Aug	81.7	62.8	72.3	101+	1953	31	76.6	1983	38	1946	30	68.4	1992	10	234	.0	2.9	31.0	.0	.0	.0
Sep	76.2	55.7	66.0	102+	1953	3	70.3+	1986	27	1942	29	62.0	1974	67	95	.0	.8	30.0	.0	.0	.0
Oct	65.9	44.0	55.0	92	1953	3	61.9	1971	15	1952	21	48.6	1988	327	15	.0	.0	29.4	.0	3.0	.0
Nov	52.3	34.5	43.4	81	1950	1	48.6	1985	-6	1958	30	36.1	1976	649	0	.0	.0	17.1	.7	13.8	.0
Dec	40.5	25.4	33.0	77	1982	3	42.0	1982	-20	1989	22	18.9	1989	994	0	.0	.0	6.9	7.1	23.3	.7
Ann	61.9	43.0	52.5	104	Jul 1936	14	78.0	Jul 1999	-27	Jan 1994	19	13.7	Jan 1977	5417	870	@	8.4	260.5	30.1	112.6	4.4

+ 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: 1936-2000

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

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NWS Call Sign:

Elevation: 960 Feet Lat: 39°32N

Lon: 83°26W

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	2.54	2.46	3.04	2000	4	5.26	1978	.40	1981	11.7	5.9	1.2	.3	.65	.89	1.26	1.58	1.91	2.24	2.62	3.07	3.65	4.57	5.44
Feb	2.44	2.37	2.41	1975	24	5.05	1975	.42	1978	10.5	5.6	1.3	.4	.62	.85	1.21	1.52	1.83	2.16	2.52	2.95	3.52	4.41	5.24
Mar	3.29	2.93	3.64	1964	10	6.25	1975	.74	1979	12.0	7.5	2.2	.6	1.28	1.59	2.02	2.38	2.72	3.07	3.44	3.88	4.43	5.27	6.04
Apr	3.52	3.26	4.04	1940	19	7.69	1998	.59	1971	12.7	7.9	2.3	.4	1.03	1.37	1.87	2.30	2.73	3.17	3.65	4.23	4.97	6.13	7.21
May	4.75	4.27	4.73	1968	24	10.56	1990	1.09	1999	12.0	8.6	3.5	1.2	1.52	1.97	2.64	3.21	3.76	4.32	4.95	5.68	6.62	8.08	9.43
Jun	3.81	3.76	4.09	1971	26	7.96	1974	.27	1991	10.7	7.2	2.5	.8	.97	1.32	1.88	2.37	2.85	3.36	3.93	4.60	5.48	6.87	8.17
Jul	3.87	3.67	3.91	1965	23	9.21	1992	1.46	1995	10.5	7.2	2.8	1.1	1.59	1.95	2.45	2.86	3.24	3.63	4.05	4.54	5.16	6.10	6.95
Aug	3.87	3.95	3.08	1997	18	8.07	1997	.39	1993	8.9	5.7	2.9	1.2	1.18	1.54	2.09	2.57	3.02	3.50	4.03	4.64	5.44	6.68	7.83
Sep	2.62	2.31	4.08	1979	14	6.99	1979	.56	1985	8.5	5.2	1.6	.6	.60	.84	1.22	1.57	1.91	2.28	2.69	3.18	3.83	4.86	5.83
Oct	2.64	2.25	2.47	1973	2	7.40	1983	.46	1982	9.1	5.6	1.8	.5	.69	.94	1.32	1.66	1.99	2.34	2.73	3.19	3.79	4.74	5.63
Nov	3.00	2.42	1.97	1973	25	8.99	1985	.54	1976	11.5	6.1	1.9	.6	.77	1.05	1.49	1.87	2.25	2.65	3.09	3.62	4.31	5.39	6.41
Dec	2.77	2.67	1.65	1990	18	7.99	1990	.75	1976	11.9	6.6	1.7	.4	1.03	1.29	1.66	1.97	2.27	2.57	2.90	3.28	3.76	4.51	5.20
Ann	39.12	38.93	4.73	May 1968	24	10.56	May 1990	.27	Jun 1991	130.0	79.1	25.7	8.1	28.28	30.39	33.09	35.13	36.94	38.69	40.50	42.49	44.90	48.39	51.40

+ 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: 1936-2000

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

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Station: WASHINGTON COURT HOUSE, OH

COOP ID: 338794

Climate Division: OH 5

NWS Call Sign:

Elevation: 960 Feet

Lat: 39°32N

Lon: 83°26W

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	8.5	5.0	2	1	5.6	1978	20	36.5	1978	19	1978	21	10	1978	4.5	3.2	1.0	.2	.0	10.4	6.1	3.9	1.7
Feb	6.1	4.4	1	#	8.3	1971	9	20.0	1979	15	1979	20	10	1978	3.4	1.9	.6	.1	.0	7.8	5.0	3.3	1.4
Mar	3.4	2.6	#	#	5.8	1987	31	8.2	1984	11	1978	8	4	1978	1.8	1.3	.4	.1	.0	3.2	1.5	.8	.1
Apr	.7	.0	#	0	4.8	1987	5	6.1	1987	4	1987	5	#+	1996	.3	.3	.1	.0	.0	.2	.1	.0	.0
May	#	.0	#	0	#	1989	7	#	1989	#	1989	7	#	1989	.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	.2	.0	#	0	2.8	1993	31	2.8	1993	2	1989	19	#+	1993	.1	.1	.0	.0	.0	.1	.0	.0	.0
Nov	1.0	.0	#	#	6.0	1980	18	6.0	1980	5	1980	18	#+	1997	.7	.4	.1	@	.0	.6	.1	@	.0
Dec	3.0	1.8	#	#	7.4	1974	1	10.6	1981	8	1981	22	3	1989	2.2	1.2	.2	.1	.0	3.7	1.3	.5	.0
Ann	22.9	13.8	N/A	N/A	8.3	Feb 1971	9	36.5	Jan 1978	19	Jan 1978	21	10+	Feb 1978	13.0	8.4	2.4	.5	.0	26.0	14.1	8.5	3.2

+ 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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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	5/13	5/09	5/06	5/04	5/01	4/29	4/26	4/23	4/19
32	5/04	4/30	4/27	4/25	4/23	4/21	4/18	4/15	4/12
28	4/20	4/16	4/13	4/10	4/08	4/06	4/03	3/31	3/27
24	4/12	4/06	4/02	3/30	3/27	3/24	3/21	3/17	3/12
20	4/03	3/27	3/23	3/19	3/16	3/12	3/09	3/04	2/26
16	3/22	3/16	3/11	3/07	3/04	2/28	2/24	2/20	2/13
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	9/25	9/29	10/02	10/04	10/07	10/09	10/11	10/14	10/18
32	10/04	10/10	10/13	10/16	10/19	10/22	10/26	10/29	11/03
28	10/16	10/21	10/25	10/29	11/01	11/04	11/07	11/11	11/17
24	10/29	11/03	11/07	11/10	11/13	11/16	11/20	11/24	11/29
20	11/07	11/13	11/17	11/21	11/24	11/28	12/01	12/06	12/12
16	11/14	11/21	11/26	11/30	12/03	12/07	12/11	12/16	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	174	168	164	161	158	154	151	147	142
32	199	192	187	183	179	175	171	166	159
28	226	219	214	210	206	202	198	193	186
24	249	243	238	234	230	227	223	218	211
20	277	269	263	258	253	248	243	236	228
16	301	292	285	279	274	269	263	256	247

* 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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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	1145	921	719	391	171	22	1	10	67	327	649	994	5417
60	990	781	569	253	91	5	0	0	21	205	500	839	4254
57	897	697	482	180	56	2	0	0	8	145	414	746	3627
55	835	644	426	138	38	1	0	0	4	112	360	692	3250
50	692	514	297	60	13	0	0	0	0	51	235	548	2410
32	252	150	38	0	0	0	0	0	0	0	15	162	617

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	130	153	342	602	931	1142	1292	1247	1018	711	357	190	8115
55	0	3	17	50	256	452	579	534	332	110	12	8	2353
57	0	0	11	32	212	393	517	472	276	81	6	0	2000
60	0	0	5	15	154	306	424	379	199	48	1	0	1531
65	0	0	0	3	79	174	270	234	95	15	0	0	870
70	0	0	0	0	32	74	132	115	32	3	0	0	388

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	53	172	382	692	913	1048	1007	787	473	182	54	32	85	257	639	1331	2244	3292	4299	5086	5559	5741	5795
45	9	22	104	255	537	763	893	852	637	327	103	27	9	31	135	390	927	1690	2583	3435	4072	4399	4502	4529
50	2	8	53	153	386	613	738	697	488	207	54	6	2	10	63	216	602	1215	1953	2650	3138	3345	3399	3405
55	0	0	29	79	252	463	583	542	342	109	20	2	0	0	29	108	360	823	1406	1948	2290	2399	2419	2421
60	0	0	8	36	141	318	428	387	208	48	5	0	0	0	8	44	185	503	931	1318	1526	1574	1579	1579
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	13	34	106	236	423	607	729	689	504	283	98	27	13	47	153	389	812	1419	2148	2837	3341	3624	3722	3749

(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 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.

- | | |
|---|---|
| <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