

Climatology of the United States

No. 20

1971-2000

Station: UNIVERSITY, MS

COOP ID: 229079

Climate Division: MS 2

NWS Call Sign:

Elevation: 380 Feet

Lat: 34° 23N

Lon: 89° 32W

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	49.8	28.0	38.9	80+	1943	24	47.3	1990	-13	1985	21	26.4	1977	808	0	.0	.0	16.1	2.7	20.4	.2
Feb	55.2	31.2	43.2	81	1996	24	51.7	1990	-8	1951	2	31.3	1978	609	0	.0	.0	19.0	1.3	15.5	.1
Mar	64.2	39.2	51.7	87	1998	31	57.7	2000	7	1980	3	45.5	1971	421	9	.0	.0	27.4	.2	8.6	.0
Apr	72.9	46.9	59.9	93	1987	22	65.3	1981	21	1987	4	53.4	1983	186	32	.0	.2	29.7	.0	2.6	.0
May	80.4	56.5	68.5	98	1934	31	74.5	1987	31	1976	4	61.5	1976	60	168	.0	2.2	31.0	.0	@	.0
Jun	87.7	64.9	76.3	104	1952	28	81.5	1998	43+	1966	1	71.0	1974	4	342	.2	12.2	30.0	.0	.0	.0
Jul	91.1	69.1	80.1	108+	1930	29	83.0	1980	50+	1967	15	76.8	1972	0	467	.5	20.8	31.0	.0	.0	.0
Aug	90.3	67.1	78.7	107	1930	7	84.0	1988	48+	1967	28	74.6	1992	1	425	1.0	17.7	31.0	.0	.0	.0
Sep	84.7	60.0	72.4	105	1954	4	78.6	1998	32	1967	29	66.2	1974	21	242	.3	8.6	30.0	.0	.0	.0
Oct	74.8	46.9	60.9	96	1998	1	66.3	1998	24+	1980	31	54.1	1976	184	54	.0	.5	30.8	.0	2.8	.0
Nov	63.0	39.0	51.0	87	2000	1	57.3	1990	6	1950	25	40.8	1976	429	10	.0	.0	26.4	.1	9.5	.0
Dec	53.5	31.2	42.4	81+	1951	6	51.6	1984	-10	1963	24	33.4	1989	701	0	.0	.0	19.8	1.3	17.9	.2
Ann	72.3	48.3	60.3	108+	Jul 1930	29	84.0	Aug 1988	-13	Jan 1985	21	26.4	Jan 1977	3424	1749	2.0	62.2	322.2	5.6	77.3	.5

+ 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: 1930-2001

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

064-A

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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: UNIVERSITY, MS

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Elevation: 380 Feet

Lat: 34°23N

Lon: 89°32W

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	5.32	5.17	4.60	1932	12	12.65	1974	.34	1986	10.7	8.2	3.9	1.4	1.29	1.79	2.57	3.26	3.94	4.67	5.48	6.44	7.71	9.71	11.59
Feb	4.58	3.77	5.74	1991	19	13.73	1991	.93	1972	8.6	6.5	3.1	1.4	1.04	1.46	2.13	2.73	3.34	3.98	4.70	5.56	6.69	8.48	10.17
Mar	5.87	5.53	6.52	1973	15	16.07	1973	1.32	1982	9.9	7.8	3.9	1.8	2.07	2.63	3.43	4.11	4.75	5.41	6.14	6.98	8.05	9.72	11.25
Apr	5.19	4.21	4.42	1980	12	18.46	1991	1.06	1976	8.9	6.8	3.7	1.6	1.30	1.79	2.54	3.21	3.88	4.57	5.36	6.28	7.49	9.41	11.21
May	5.66	5.47	6.52	1970	11	13.00	1978	1.01	1992	9.7	7.6	3.6	1.9	1.60	2.14	2.95	3.66	4.35	5.07	5.87	6.81	8.03	9.95	11.74
Jun	4.60	3.92	5.95	1997	17	13.35	1997	.22+	1988	8.2	6.5	3.0	1.7	.68	1.07	1.73	2.37	3.03	3.76	4.59	5.61	6.99	9.22	11.37
Jul	4.05	3.74	3.25	1989	1	10.47	1989	.97	1980	8.3	6.3	3.1	1.0	1.06	1.44	2.03	2.54	3.05	3.59	4.18	4.89	5.81	7.25	8.61
Aug	3.50	3.14	4.36	1992	25	11.38	1992	.46	1988	7.0	5.1	2.4	1.1	.67	.98	1.50	1.97	2.45	2.97	3.55	4.26	5.20	6.71	8.15
Sep	3.66	3.09	3.95	1983	21	9.22	1977	.71	1984	7.3	5.3	2.5	1.2	.88	1.22	1.75	2.23	2.70	3.21	3.77	4.43	5.31	6.69	7.99
Oct	3.80	3.76	8.29	1982	7	12.94	1984	.00	2000	6.1	4.7	2.5	1.4	.69	1.22	1.86	2.37	2.88	3.40	3.98	4.66	5.54	6.92	8.21
Nov	5.43	4.71	6.66	1968	28	11.53	1973	1.19	1971	9.0	6.8	3.6	1.8	1.39	1.90	2.69	3.39	4.07	4.80	5.60	6.56	7.81	9.78	11.62
Dec	5.99	5.06	7.85	1982	26	19.93	1982	.48	1980	9.7	7.7	4.0	2.0	1.25	1.80	2.68	3.48	4.29	5.15	6.12	7.28	8.82	11.29	13.62
Ann	57.65	53.40	8.29	Oct 1982	7	19.93	Dec 1982	.00	Oct 2000	103.4	79.3	39.3	18.3	39.89	43.29	47.67	51.01	53.98	56.87	59.85	63.15	67.17	73.02	78.09

+ 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: 1930-2001

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

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NWS Call Sign:

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Lat: 34°23N

Lon: 89°32W

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	1.5	.7	#	0	5.8	2000	28	5.8	2000	7	1988	7	#+	2000	.7	.5	.2	@	.0	.8	.3	@	.0
Feb	1.0	.0	#	0	7.0	1985	2	12.0	1985	7	1985	2	1	1985	.5	.3	.2	@	.0	.5	.2	.1	.0
Mar	.1	.0	#	0	2.0	1984	10	2.0	1984	2	1984	10	#+	1998	.1	@	.0	.0	.0	@	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	#	0	.5	1976	29	.5	1976	#	1991	8	#	1991	@	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	2.5	1985	20	2.5	1985	3	1985	20	#+	2000	.2	@	.0	.0	.0	.1	@	.0	.0
Ann	2.8	.7	N/A	N/A	7.0	Feb 1985	2	12.0	Feb 1985	7+	Jan 1988	7	1	Feb 1985	1.5	.8	.4	@	.0	1.4	.5	.1	.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	5/10	5/04	4/30	4/27	4/24	4/20	4/17	4/13	4/07
32	4/25	4/20	4/17	4/14	4/11	4/09	4/06	4/03	3/29
28	4/12	4/07	4/04	4/01	3/29	3/26	3/23	3/19	3/14
24	4/03	3/26	3/20	3/15	3/10	3/06	2/28	2/23	2/14
20	3/21	3/12	3/06	3/01	2/24	2/19	2/14	2/08	1/31
16	3/10	3/01	2/22	2/17	2/12	2/07	2/01	1/25	1/16
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	9/28	10/02	10/05	10/07	10/10	10/12	10/15	10/18	10/22
32	10/04	10/10	10/14	10/17	10/20	10/23	10/27	10/31	11/05
28	10/16	10/22	10/27	10/30	11/03	11/06	11/10	11/15	11/21
24	11/02	11/08	11/12	11/16	11/19	11/23	11/27	12/01	12/07
20	11/09	11/16	11/22	11/27	12/02	12/06	12/11	12/17	12/25
16	11/20	12/02	12/10	12/17	12/24	12/31	1/07	1/16	1/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	185	179	173	169	164	159	153	144
32	213	206	200	195	191	187	182	177	169
28	238	231	227	222	219	215	211	206	199
24	285	274	266	260	253	247	241	233	222
20	315	303	294	287	280	273	266	257	245
16	>365	335	324	316	309	302	295	287	276

* 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	808	609	421	186	60	4	0	1	21	184	429	701	3424
60	665	478	285	92	20	0	0	0	5	97	298	557	2497
57	579	401	216	53	9	0	0	0	1	60	230	472	2021
55	523	352	176	34	5	0	0	0	0	41	190	417	1738
50	394	242	95	8	0	0	0	0	0	13	109	294	1155
32	88	27	2	0	0	0	0	0	0	0	3	40	160

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	303	341	612	837	1131	1329	1490	1447	1211	893	573	361	10528
55	25	22	73	181	423	639	777	734	521	221	71	26	3713
57	19	16	51	140	365	579	715	672	462	178	50	18	3265
60	12	9	27	89	283	489	622	579	376	122	28	11	2647
65	0	0	9	32	168	342	467	425	242	54	10	0	1749
70	0	0	0	8	85	207	312	279	134	18	1	0	1044

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	129	204	403	612	894	1102	1252	1211	983	662	363	183	129	333	736	1348	2242	3344	4596	5807	6790	7452	7815	7998
45	71	123	274	466	739	952	1097	1056	833	508	247	105	71	194	468	934	1673	2625	3722	4778	5611	6119	6366	6471
50	35	65	173	329	584	802	942	901	683	365	153	57	35	100	273	602	1186	1988	2930	3831	4514	4879	5032	5089
55	13	26	94	209	430	652	787	746	534	238	85	28	13	39	133	342	772	1424	2211	2957	3491	3729	3814	3842
60	1	5	41	118	290	502	632	591	393	136	37	2	1	6	47	165	455	957	1589	2180	2573	2709	2746	2748
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	87	136	257	396	596	753	856	828	664	441	230	117	87	223	480	876	1472	2225	3081	3909	4573	5014	5244	5361

(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