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: TUPELO RGNL AP, MS **COOP ID: 229003**

Climate Division: MS 3 **NWS Call Sign: TUP** **Elevation: 361 Feet** **Lat: 34˚16N** **Lon: 88˚46W**

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	50.3	30.5	40.4	80	1972	24	48.2	1990	-12	1966	30	28.9	1977	750	0	.0	.0	17.0	1.9	18.0	.2
Feb	56.0	33.5	44.8	84	1996	23	52.6	1990	4	1996	4	33.7	1978	559	1	.0	.0	20.2	.8	12.9	.0
Mar	64.8	41.4	53.1	88	1963	31	58.2	1974	7	1980	3	46.8	1971	368	14	.0	.0	28.5	.1	6.2	.0
Apr	73.5	48.2	60.9	93	1987	21	66.6	1999	23	1973	11	55.3	1983	160	50	.0	.3	29.9	.0	1.9	.0
May	81.0	57.7	69.4	98	1977	30	75.0	1987	30	1976	4	63.4	1976	29	171	.0	2.8	31.0	.0	@	.0
Jun	88.0	65.7	76.9	101+	1964	22	81.5	1998	41	1966	1	72.0	1974	1	364	.2	13.6	30.0	.0	.0	.0
Jul	91.4	69.8	80.6	105+	1980	14	84.6	1986	50	1967	15	77.2	1972	0	488	1.0	21.8	31.0	.0	.0	.0
Aug	90.9	68.2	79.6	106+	2000	28	83.5	2000	50	1967	28	76.0	1992	0	453	1.5	20.7	31.0	.0	.0	.0
Sep	84.9	61.7	73.3	104	1980	16	78.6	1998	32	1967	29	68.2	1974	14	274	.4	8.9	30.0	.0	.0	.0
Oct	74.9	48.8	61.9	95+	1963	12	69.0	1984	24	1980	31	55.7	1976	150	60	.0	.6	30.9	.0	1.7	.0
Nov	63.0	40.0	51.5	86	2000	1	59.1	1985	11+	1970	24	41.7	1976	400	8	.0	.0	26.9	.0	8.5	.0
Dec	53.6	33.2	43.4	79+	1978	3	53.3	1984	-3	1989	23	33.9	2000	655	1	.0	.0	21.0	.9	14.9	.1
Ann	72.7	49.9	61.3	106+	Aug 2000	28	84.6	Jul 1986	-12	Jan 1966	30	28.9	Jan 1977	3086	1884	3.1	68.7	327.4	3.7	64.1	.3

+ 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: 1962-2001

(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	5.14	4.41	3.75	1999	22	14.81	1974	.30	1986
Feb	4.68	4.12	4.53	1991	18	10.90	1991	1.20	1978
Mar	6.30	5.44	4.85	1997	2	17.20	1980	2.13	1985
Apr	4.94	4.58	4.36	1979	12	12.16	1991	.46	1986
May	5.80	4.60	7.89	1991	26	17.96	1978	1.34	1992
Jun	4.82	4.47	3.67	1995	30	11.37	1997	.17	1988
Jul	3.65	2.91	5.01	1963	17	10.00	1975	.48	1986
Aug	2.67	2.18	3.08	1976	25	6.22	1985	.00	1983
Sep	3.35	2.73	3.61	1979	13	8.09	1979	.05	1999
Oct	3.38	3.28	4.44	1970	12	7.90	1984	.36	1989
Nov	5.01	4.55	3.76	2001	29	9.64	1986	1.50	1985
Dec	6.12	4.93	5.62	1982	26	19.89	1982	.86	1980
Ann	55.86	54.37	7.89	May 1991	26	19.89	Dec 1982	.00	Aug 1983

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.8	7.7	3.5	1.6
Feb	9.4	6.2	3.3	1.4
Mar	11.0	8.1	4.0	2.0
Apr	9.2	6.6	3.5	1.8
May	10.4	7.3	3.5	1.8
Jun	9.7	6.9	3.4	1.4
Jul	9.6	6.5	2.4	.8
Aug	7.2	4.8	1.8	.7
Sep	7.5	5.2	2.0	.9
Oct	6.9	4.9	2.3	1.1
Nov	9.2	6.9	3.4	1.6
Dec	10.7	7.8	3.9	2.0
Ann	111.6	78.9	37.0	17.1

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	1.15	1.62	2.38	3.05	3.73	4.45	5.26	6.23	7.51	9.54	11.45
Feb	1.53	1.98	2.63	3.19	3.72	4.28	4.88	5.59	6.50	7.92	9.23
Mar	2.00	2.60	3.48	4.24	4.97	5.73	6.56	7.53	8.79	10.74	12.55
Apr	.95	1.39	2.12	2.79	3.47	4.19	5.02	6.02	7.34	9.47	11.49
May	1.19	1.71	2.57	3.34	4.13	4.97	5.92	7.06	8.56	10.97	13.26
Jun	.91	1.34	2.05	2.70	3.36	4.08	4.89	5.87	7.17	9.26	11.26
Jul	.64	.96	1.49	1.99	2.50	3.06	3.69	4.46	5.48	7.12	8.70
Aug	.30	.62	1.07	1.46	1.85	2.26	2.73	3.30	4.05	5.26	6.40
Sep	.32	.55	1.01	1.47	1.98	2.56	3.24	4.09	5.26	7.20	9.11
Oct	.69	1.00	1.50	1.95	2.41	2.89	3.45	4.11	4.99	6.39	7.72
Nov	1.72	2.19	2.88	3.47	4.03	4.60	5.23	5.97	6.91	8.37	9.71
Dec	1.37	1.94	2.84	3.64	4.45	5.31	6.27	7.43	8.94	11.36	13.63
Ann	38.12	41.51	45.87	49.20	52.17	55.06	58.05	61.36	65.40	71.28	76.39

+ 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: 1962-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	.9	.1	#	0	5.2	1988	6	7.2	1988	6	1988	7	1	1988	.8	.3	@	@	.0	.6	.3	.1	.0
Feb	.6	.0	#	0	3.1	1985	1	5.3	1985	4+	1985	4	1	1985	.6	.3	@	.0	.0	.8	.1	.0	.0
Mar	.1	.0	#	0	1.7	1984	10	1.7+	1993	1	1984	10	#	1984	.1	.1	.0	.0	.0	@	.0	.0	.0
Apr	.0	.0	0	0	.4	1987	2	.4	1987	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	#	1999	.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	#	1993	31	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.1	1991	7	.1	1991	#+	1991	9	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	1.9	1983	16	2.2	1983	2	1983	17	#	1998	.4	.0	.0	.0	.0	.2	.0	.0	.0
Ann	1.8	.1	N/A	N/A	5.2	Jan 1988	6	7.2	Jan 1988	6	Jan 1988	7	1+	Jan 1988	1.9	.7	@	@	.0	1.6	.4	.1	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/02	4/27	4/23	4/19	4/16	4/13	4/10	4/06	4/01
32	4/22	4/16	4/12	4/09	4/05	4/02	3/29	3/25	3/19
28	4/08	4/01	3/26	3/22	3/17	3/13	3/08	3/03	2/23
24	3/29	3/20	3/13	3/07	3/02	2/25	2/19	2/12	2/03
20	3/11	3/03	2/25	2/20	2/15	2/11	2/06	1/31	1/22
16	3/01	2/20	2/13	2/07	2/01	1/26	1/18	1/03	0/00

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	10/03	10/09	10/13	10/16	10/20	10/23	10/27	10/31	11/06
32	10/09	10/16	10/21	10/25	10/28	11/01	11/05	11/10	11/16
28	10/21	10/29	11/04	11/09	11/13	11/18	11/23	11/29	12/07
24	10/30	11/09	11/17	11/23	11/29	12/05	12/12	12/20	12/30
20	11/10	11/22	11/30	12/07	12/14	12/20	12/27	1/05	1/16
16	11/30	12/10	12/17	12/23	12/30	1/06	1/14	1/30	0/00

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	213	204	197	191	186	180	174	168	158
32	236	226	218	211	205	199	193	185	175
28	278	265	256	248	240	233	225	216	203
24	318	300	288	278	270	261	252	241	226
20	345	328	317	307	299	290	281	271	256
16	>365	>365	>365	353	332	319	309	298	285

***** 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	750	559	368	160	29	1	0	0	14	150	400	655	3086
60	618	434	246	74	12	0	0	0	3	85	284	525	2281
57	532	357	181	40	5	0	0	0	1	51	216	440	1823
55	476	308	144	24	2	0	0	0	0	35	177	385	1551
50	348	202	71	5	0	0	0	0	0	11	98	265	1000
32	60	15	0	0	0	0	0	0	0	0	2	28	105

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	312	394	672	879	1166	1354	1512	1480	1251	937	597	392	10946
55	15	28	100	220	453	664	799	767	561	249	76	25	3957
57	9	19	73	176	392	604	737	705	502	201	55	17	3490
60	4	9	43	119	304	514	644	612	414	139	30	9	2841
65	0	1	14	50	171	364	488	453	274	60	8	1	1884
70	0	0	2	11	72	221	335	303	154	19	1	0	1118

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	149	225	440	646	931	1123	1272	1244	1019	698	375	201	149	374	814	1460	2391	3514	4786	6030	7049	7747	8122	8323
45	81	137	304	497	776	973	1117	1089	869	543	252	111	81	218	522	1019	1795	2768	3885	4974	5843	6386	6638	6749
50	41	69	191	352	621	823	962	934	719	391	152	58	41	110	301	653	1274	2097	3059	3993	4712	5103	5255	5313
55	20	30	106	226	466	673	807	779	569	256	81	26	20	50	156	382	848	1521	2328	3107	3676	3932	4013	4039
60	0	7	44	127	315	523	652	624	421	144	36	4	0	7	51	178	493	1016	1668	2292	2713	2857	2893	2897
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	92	148	275	418	619	773	869	843	689	460	234	120	92	240	515	933	1552	2325	3194	4037	4726	5186	5420	5540

(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:
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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