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: JACKSON THOMPSON AP, MS **COOP ID: 224472**

Climate Division: MS 5 **NWS Call Sign: JAN** **Elevation: 310 Feet** **Lat: 32˚19N** **Lon: 90˚05W**

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	55.1	35.0	45.0	82+	1972	13	53.9	1974	2+	1985	20	34.8	1977	611	0	.0	.0	22.1	.9	14.2	.0
Feb	60.3	38.2	49.2	85	1989	15	55.6	1976	10+	1996	4	39.1	1978	440	8	.0	.0	23.3	.4	9.4	.0
Mar	68.1	45.4	56.8	89	1982	18	61.5	1982	15	1980	3	51.3	1971	272	32	.0	.0	29.6	@	3.6	.0
Apr	75.0	51.7	63.4	94	1987	21	70.4	1981	27	1987	4	59.5	1983	115	82	.0	.2	30.0	.0	.4	.0
May	82.1	61.0	71.5	99	1964	26	75.7	1996	38	1971	4	66.8	1971	11	228	.0	4.4	31.0	.0	.0	.0
Jun	88.9	68.1	78.5	105	1988	29	82.2	1998	47	1984	1	73.8	1974	0	419	.2	17.9	30.0	.0	.0	.0
Jul	91.4	71.4	81.4	106	1980	16	85.4	1980	51	1967	15	78.9	1994	0	524	1.1	24.3	31.0	.0	.0	.0
Aug	91.4	70.3	80.9	107	2000	30	85.0	2000	55+	1966	26	76.9	1992	0	505	1.1	23.5	31.0	.0	.0	.0
Sep	86.4	64.6	75.5	104+	1980	15	82.0	1980	35	1967	29	70.7	1974	7	338	.5	12.7	30.0	.0	.0	.0
Oct	76.8	52.0	64.4	95+	1986	3	70.7	1984	26	1993	31	58.4	1976	102	99	.0	1.0	30.9	.0	.4	.0
Nov	66.3	43.4	54.8	88	1971	2	62.0	1985	17+	1966	3	45.7	1976	315	25	.0	.0	28.5	@	5.5	.0
Dec	57.9	37.3	47.6	84	1978	7	57.7	1984	4	1989	23	38.5	2000	528	4	.0	.0	24.7	.3	12.6	.0
Ann	75.0	53.2	64.1	107	Aug 2000	30	85.4	Jul 1980	2+	Jan 1985	20	34.8	Jan 1977	2401	2264	2.9	84.0	342.1	1.6	46.1	.0

\+ 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: 1963-2001

(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	5.67	4.63	4.72	1994	27	14.10	1979	.75	1986
Feb	4.50	4.06	3.26	1979	23	10.28	1987	1.29	2000
Mar	5.74	5.30	3.83	1991	29	15.13	1976	2.11	1992
Apr	5.98	4.70	4.93	1983	13	15.95	1991	1.21	1987
May	4.86	5.25	3.20	1989	4	10.48	1978	.29	1988
Jun	3.82	3.50	6.49	1997	10	8.45	1997	.10	1988
Jul	4.69	4.45	5.45	2001	26	13.25	1979	1.04	1987
Aug	3.66	2.93	4.04	1992	26	8.33	1992	.26	2000
Sep	3.23	3.08	4.59	1971	16	6.00	1971	.93	1984
Oct	3.42	2.87	6.97	1964	4	8.25	1975	.09	1971
Nov	5.04	4.33	3.49	1982	27	9.98	1977	.51	1985
Dec	5.34	4.56	4.92	1982	3	17.70	1982	.91	1980
Ann	55.95	53.81	6.97	Oct 1964	4	17.70	Dec 1982	.09	Oct 1971

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.9	7.7	3.9	1.9
Feb	9.2	6.3	3.2	1.5
Mar	10.3	7.6	3.9	2.0
Apr	8.4	5.9	3.5	2.1
May	9.2	6.7	3.2	1.7
Jun	9.1	5.5	2.2	1.2
Jul	10.6	7.2	3.2	1.3
Aug	9.1	5.5	2.3	1.1
Sep	7.9	5.3	2.0	.9
Oct	6.3	4.3	2.2	1.0
Nov	8.9	6.3	3.4	1.7
Dec	9.8	7.2	3.5	1.7
Ann	109.7	75.5	36.5	18.1

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	1.44	1.97	2.80	3.53	4.25	5.00	5.85	6.85	8.16	10.22	12.16
Feb	1.29	1.71	2.36	2.92	3.46	4.03	4.66	5.41	6.37	7.88	9.29
Mar	2.22	2.75	3.51	4.15	4.74	5.35	6.01	6.78	7.75	9.24	10.60
Apr	1.02	1.54	2.41	3.23	4.07	4.99	6.03	7.30	8.99	11.73	14.34
May	.62	1.01	1.70	2.37	3.09	3.88	4.80	5.94	7.48	10.00	12.45
Jun	.63	.96	1.51	2.04	2.58	3.17	3.84	4.67	5.76	7.54	9.25
Jul	1.19	1.63	2.32	2.92	3.52	4.14	4.84	5.67	6.76	8.47	10.08
Aug	.72	1.05	1.58	2.08	2.58	3.11	3.72	4.45	5.42	6.98	8.46
Sep	1.18	1.48	1.92	2.29	2.64	2.99	3.38	3.83	4.40	5.29	6.10
Oct	.30	.54	.99	1.47	1.99	2.58	3.28	4.17	5.38	7.42	9.41
Nov	1.46	1.94	2.66	3.29	3.90	4.53	5.23	6.06	7.13	8.81	10.37
Dec	1.67	2.18	2.93	3.58	4.20	4.85	5.56	6.39	7.46	9.14	10.68
Ann	39.78	42.91	46.92	49.97	52.67	55.29	57.99	60.98	64.60	69.85	74.39

\+ 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: 1963-2001
(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	.5	#	#	0	5.5	1982	13	6.3	1982	6	1982	14	#	1982	.5	.1	@	@	.0	.2	.1	@	.0
Feb	.1	#	#	0	1.4	1985	1	1.4	1985	1+	1985	4	#	1985	.0	.0	.0	.0	.0	.1	.0	.0	.0
Mar	.1	.0	#	0	1.6	1993	12	1.6	1993	2	1993	13	#	1993	.1	.0	.0	.0	.0	@	.0	.0	.0
Apr	.0	.0	#	0	.6	1987	3	1.1	1987	1	1987	3	#	1987	.1	.0	.0	.0	.0	@	.0	.0	.0
May	.0	.0	#	0	.0	0	0	.0	0	0	0	0	#	2000	.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	0	.2	1976	28	.2	1976	#	1976	29	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	4.8	1997	14	4.8	1997	1+	2000	31	#	2000	.2	.1	@	.0	.0	.1	.0	.0	.0
Ann	1.0	#	N/A	N/A	5.5	Jan 1982	13	6.3	Jan 1982	6	Jan 1982	14	#+	Dec 2000	.9	.2	@	@	.0	.4	.1	.0	.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	4/18	4/13	4/10	4/07	4/05	4/02	3/30	3/27	3/22
32	4/08	4/02	3/29	3/26	3/23	3/20	3/16	3/12	3/07
28	3/21	3/14	3/08	3/03	2/27	2/22	2/17	2/12	2/04
24	3/12	3/04	2/25	2/20	2/15	2/10	2/05	1/29	1/21
20	3/05	2/22	2/14	2/06	1/31	1/23	1/15	1/01	0/00
16	2/18	2/06	1/29	1/20	1/10	12/24	0/00	0/00	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	10/11	10/17	10/21	10/25	10/29	11/01	11/05	11/10	11/16
32	10/23	10/29	11/02	11/06	11/09	11/12	11/16	11/20	11/26
28	11/07	11/12	11/17	11/20	11/23	11/27	11/30	12/05	12/10
24	11/16	11/25	12/02	12/08	12/13	12/18	12/24	12/30	1/09
20	11/28	12/11	12/20	12/28	1/05	1/13	1/23	2/07	0/00
16	12/21	1/01	1/09	1/16	1/26	2/10	0/00	0/00	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	226	219	214	210	206	203	198	194	187
32	254	246	240	235	230	226	221	215	207
28	297	288	281	275	269	263	257	250	241
24	333	320	311	304	298	292	285	277	266
20	>365	>365	>365	>365	338	325	315	305	292
16	>365	>365	>365	>365	>365	>365	>365	338	316

***** 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	611	440	272	115	11	0	0	0	7	102	315	528	2401
60	484	312	159	41	3	0	0	0	0	44	208	404	1655
57	403	240	106	19	0	0	0	0	0	22	153	326	1269
55	353	197	77	10	0	0	0	0	0	13	121	279	1050
50	245	112	28	1	0	0	0	0	0	3	58	181	628
32	28	2	0	0	0	0	0	0	0	0	0	12	42

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	439	505	787	961	1247	1413	1550	1532	1323	1025	706	515	12003
55	41	62	159	286	534	723	837	819	633	323	128	61	4606
57	30	46	124	236	472	663	775	757	573	269	99	46	4090
60	17	27	80	169	380	573	682	664	484	196	64	28	3364
65	0	8	32	82	228	419	524	505	338	99	25	4	2264
70	0	1	9	27	113	275	372	354	207	38	6	1	1403

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	246	327	550	729	1009	1183	1313	1293	1094	786	479	307	246	573	1123	1852	2861	4044	5357	6650	7744	8530	9009	9316
45	150	218	404	580	854	1033	1158	1138	944	631	343	194	150	368	772	1352	2206	3239	4397	5535	6479	7110	7453	7647
50	88	133	273	433	699	883	1003	983	794	478	227	117	88	221	494	927	1626	2509	3512	4495	5289	5767	5994	6111
55	46	69	164	296	544	733	848	828	644	331	132	66	46	115	279	575	1119	1852	2700	3528	4172	4503	4635	4701
60	19	30	84	176	390	583	693	673	496	203	67	31	19	49	133	309	699	1282	1975	2648	3144	3347	3414	3445
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	157	210	347	476	683	815	898	886	744	519	305	190	157	367	714	1190	1873	2688	3586	4472	5216	5735	6040	6230

(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