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: QUITMAN 1 N, MS **COOP ID: 227252**

Climate Division: MS 9 **NWS Call Sign:** **Elevation: 300 Feet** **Lat: 32˚04N** **Lon: 88˚43W**

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	56.0	33.6	44.8	84	1957	29	55.0	1974	-3+	1962	12	35.3	1977	635	0	.0	.0	22.9	.5	15.7	.1
Feb	61.1	36.3	48.7	85+	1957	4	55.6	2000	7+	1996	4	39.4	1978	456	0	.0	.0	23.6	.3	11.6	.0
Mar	69.2	43.4	56.3	89+	1955	12	61.3	1973	11	1980	3	50.7	1971	284	15	.0	.0	29.7	.0	5.3	.0
Apr	76.1	49.4	62.8	94	1987	22	68.7	1999	27+	1962	2	56.9	1997	120	52	.0	.2	29.9	.0	1.0	.0
May	82.4	58.6	70.5	98	1964	27	74.6	2000	35	1971	4	65.7	1976	19	189	.0	4.0	31.0	.0	.0	.0
Jun	88.2	65.7	77.0	105	1963	15	80.9	1998	42	1984	1	73.4	1974	0	359	.4	16.9	30.0	.0	.0	.0
Jul	90.1	69.0	79.6	104+	1980	15	82.8	2000	51+	1967	15	76.8	1994	0	452	1.1	23.2	31.0	.0	.0	.0
Aug	89.8	67.9	78.9	103+	1954	9	82.5	2000	47	1956	22	75.1	1992	0	429	.7	22.2	31.0	.0	.0	.0
Sep	85.2	62.5	73.9	102+	1954	6	79.0	1980	33	1967	30	69.5	1996	9	275	.2	12.0	30.0	.0	.0	.0
Oct	76.2	49.4	62.8	99+	1954	5	69.1	1984	22	1993	31	56.8	1987	137	68	.0	1.0	30.9	.0	1.2	.0
Nov	66.7	41.9	54.3	92	1976	4	61.1	1985	13	1959	30	46.1	1976	338	16	.0	.2	28.9	.0	6.4	.0
Dec	58.7	36.2	47.5	83+	1978	4	56.2	1971	2+	1962	13	38.2	1989	551	7	.0	.0	25.4	.2	13.0	.0
Ann	75.0	51.2	63.1	105	Jun 1963	15	82.8	Jul 2000	-3+	Jan 1962	12	35.3	Jan 1977	2549	1862	2.4	79.7	344.3	1.0	54.2	.1

\+ 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: 1954-2001

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

Issue Date: February 2004

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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	6.38	6.20	5.75	1987	18	13.21	1972	1.20	1986
Feb	4.94	4.49	5.30	1961	22	10.10+	1990	1.07	2000
Mar	6.83	6.16	5.50	1979	4	13.43	1976	1.95	1997
Apr	5.35	4.79	9.70	1964	6	11.06	1980	1.10	1987
May	4.30	4.04	3.79	1980	17	8.92	1991	.82	2000
Jun	4.15	4.08	4.06	1959	1	9.44	1983	.56	1988
Jul	4.79	4.47	3.88	1977	31	10.64	1977	1.00+	2000
Aug	3.23	2.85	5.42	1995	4	9.10	1984	.59	1980
Sep	3.68	2.83	5.58	1979	13	8.96	1974	.23	1984
Oct	3.19	2.65	4.32	1999	10	10.24	1985	.00	1987
Nov	4.52	4.11	3.10	1987	17	11.77	1986	.72	1999
Dec	5.01	4.30	5.03	1973	25	13.41	1973	1.43	1980
Ann	56.37	55.14	9.70	Apr 1964	6	13.43	Mar 1976	.00	Oct 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.4	7.7	3.9	2.1
Feb	6.8	6.1	3.6	1.8
Mar	7.9	7.1	4.3	2.4
Apr	6.6	6.1	3.5	1.8
May	6.9	6.1	2.8	1.5
Jun	7.1	6.2	2.9	1.2
Jul	9.2	8.1	3.3	1.3
Aug	7.3	6.2	1.9	.8
Sep	5.5	4.6	2.2	1.0
Oct	4.2	3.6	1.8	1.0
Nov	6.4	5.8	2.9	1.7
Dec	7.2	6.4	3.3	1.5
Ann	83.5	74.0	36.4	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	1.97	2.58	3.48	4.25	5.00	5.78	6.63	7.64	8.93	10.95	12.82
Feb	1.45	1.92	2.63	3.24	3.83	4.45	5.13	5.94	6.98	8.61	10.12
Mar	2.13	2.78	3.74	4.57	5.37	6.19	7.10	8.17	9.54	11.69	13.67
Apr	1.42	1.93	2.70	3.38	4.05	4.75	5.53	6.46	7.66	9.55	11.32
May	1.17	1.57	2.19	2.74	3.27	3.83	4.45	5.18	6.14	7.63	9.03
Jun	.99	1.37	1.98	2.52	3.06	3.63	4.27	5.03	6.03	7.61	9.10
Jul	1.40	1.86	2.54	3.14	3.71	4.31	4.98	5.76	6.77	8.35	9.82
Aug	.78	1.08	1.55	1.97	2.39	2.83	3.32	3.91	4.67	5.89	7.03
Sep	.56	.87	1.41	1.91	2.44	3.02	3.68	4.50	5.58	7.35	9.05
Oct	.13	.40	.87	1.33	1.84	2.41	3.08	3.92	5.07	6.98	8.86
Nov	1.44	1.87	2.51	3.05	3.57	4.11	4.71	5.40	6.30	7.70	8.99
Dec	1.62	2.09	2.79	3.39	3.97	4.56	5.22	5.98	6.97	8.50	9.91
Ann	42.59	45.31	48.78	51.38	53.68	55.89	58.16	60.65	63.66	67.99	71.71

\+ 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: 1954-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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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	.3	.0	0	0
Feb	#	.0	#	0
Mar	.1	.0	#	0
Apr	.1	.0	0	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	.0	.0	0	0
Dec	.0	.0	0	0
Ann	.5	.0	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	4.0	1977	31	6.0	1977	0	0	0	0	0
Feb	#	1989	7	#+	1989	#	1989	8	#	1989
Mar	2.5	1993	13	2.5	1993	3	1993	13	#+	1998
Apr	2.5	1987	3	2.5	1987	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	1.0	1993	23	1.0	1993	0	0	0	0	0
Ann	4.0	Jan 1977	31	6.0	Jan 1977	3	Mar 1993	13	#+	Mar 1998

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.1	.1	@	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.1	@	.0	.0	.0
Apr	@	@	.0	.0	.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	.0	.0	.0	.0	.0
Dec	@	@	.0	.0	.0
Ann	.2	.1	@	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	@	@	.0	.0
Apr	.0	.0	.0	.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	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	@	@	.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	4/23	4/19	4/15	4/13	4/10	4/07	4/05	4/02	3/28
32	4/21	4/12	4/05	3/31	3/25	3/20	3/14	3/07	2/24
28	4/03	3/25	3/18	3/12	3/07	3/02	2/24	2/17	2/05
24	3/14	3/07	3/01	2/24	2/20	2/15	2/10	2/03	1/21
20	3/07	2/27	2/20	2/15	2/10	2/05	1/30	1/21	0/00
16	2/27	2/15	2/07	1/31	1/23	1/14	1/01	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	10/01	10/08	10/13	10/17	10/21	10/25	10/29	11/03	11/10
32	10/10	10/20	10/26	11/01	11/06	11/12	11/18	11/25	12/06
28	10/29	11/06	11/12	11/17	11/22	11/26	12/02	12/09	12/22
24	11/12	11/20	11/26	12/01	12/06	12/11	12/17	12/25	0/00
20	11/22	12/04	12/13	12/20	12/28	1/05	1/14	1/29	0/00
16	12/09	12/21	12/31	1/08	1/17	1/28	2/17	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	218	210	204	198	193	189	183	177	169
32	283	258	245	235	225	216	207	196	181
28	>365	287	274	264	256	248	240	231	218
24	>365	313	300	292	286	279	272	265	255
20	>365	>365	335	323	313	305	297	287	275
16	>365	>365	>365	>365	355	337	326	316	304

***** 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	635	456	284	120	19	0	0	0	9	137	338	551	2549
60	491	325	166	48	3	0	0	0	1	63	218	407	1722
57	410	252	111	22	0	0	0	0	0	35	160	327	1317
55	359	207	81	12	0	0	0	0	0	21	127	279	1086
50	250	119	29	2	0	0	0	0	0	5	61	179	645
32	29	2	0	0	0	0	0	0	0	0	0	10	41

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	426	471	754	922	1194	1349	1475	1452	1256	954	669	489	11411
55	43	32	123	244	481	659	762	739	566	263	106	45	4063
57	32	20	91	194	419	599	700	677	506	214	79	31	3562
60	20	10	52	129	328	509	607	584	417	149	46	18	2869
65	0	0	15	52	189	359	452	429	275	68	16	7	1862
70	0	0	3	13	84	213	297	275	153	22	4	0	1064

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	234	307	532	701	970	1141	1264	1240	1050	737	485	288	234	541	1073	1774	2744	3885	5149	6389	7439	8176	8661	8949
45	136	198	387	552	815	991	1109	1085	900	582	349	183	136	334	721	1273	2088	3079	4188	5273	6173	6755	7104	7287
50	73	116	257	407	660	841	954	930	750	429	228	106	73	189	446	853	1513	2354	3308	4238	4988	5417	5645	5751
55	34	58	151	269	506	691	799	775	601	292	140	58	34	92	243	512	1018	1709	2508	3283	3884	4176	4316	4374
60	12	22	73	156	356	541	644	620	452	169	74	28	12	34	107	263	619	1160	1804	2424	2876	3045	3119	3147
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	155	207	351	466	650	772	857	837	709	493	323	193	155	362	713	1179	1829	2601	3458	4295	5004	5497	5820	6013

(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