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: MOBILE RGNL AP, AL **COOP ID: 015478**

Climate Division: AL 8 **NWS Call Sign: MOB** **Elevation: 215 Feet** **Lat: 30˚41N** **Lon: 88˚15W**

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	60.7	39.5	50.1	84	1949	11	62.7	1974	3	1985	21	39.6	1977	455	9	.0	.0	26.4	.1	8.0	.0
Feb	64.5	42.4	53.5	84	1962	13	58.6	1990	11+	1996	5	43.8	1978	326	11	.0	.0	26.0	@	4.9	.0
Mar	71.2	49.2	60.2	89	1967	15	66.3	1997	21	1993	14	54.7	1983	182	45	.0	.0	30.6	.0	1.3	.0
Apr	77.4	54.8	66.1	94	1987	21	70.8	1999	32	1987	5	61.4	1983	57	106	.0	.2	30.0	.0	@	.0
May	84.2	62.8	73.5	100+	1953	27	76.9	2000	43	1960	13	71.1	1981	4	282	.0	3.0	31.0	.0	.0	.0
Jun	89.4	69.2	79.3	102+	1954	29	82.5	1998	49	1984	1	75.9	1983	0	445	@	15.5	30.0	.0	.0	.0
Jul	91.2	71.8	81.5	104	1952	25	84.3	2000	62+	1967	16	79.3	1985	0	527	.4	22.2	31.0	.0	.0	.0
Aug	90.8	71.7	81.3	105	2000	29	84.4	1999	59	1956	22	78.5	1984	0	520	.1	21.3	31.0	.0	.0	.0
Sep	86.8	67.6	77.2	99+	1990	4	81.5	1980	42	1967	29	73.3	1983	2	384	.0	10.4	30.0	.0	.0	.0
Oct	79.2	56.3	67.7	93+	1963	9	72.3	1973	30	1993	31	60.1	1976	51	151	.0	.7	31.0	.0	@	.0
Nov	70.1	47.8	58.9	87+	1971	2	65.7	1985	22	1950	25	49.4	1976	208	41	.0	.0	29.6	.0	1.2	.0
Dec	62.9	41.6	52.3	81+	1998	7	62.2	1971	8	1983	25	44.0	1989	396	18	.0	.0	27.8	.1	6.2	.0
Ann	77.4	56.2	66.8	105	Aug 2000	29	84.4	Aug 1999	3	Jan 1985	21	39.6	Jan 1977	1681	2539	.5	73.3	354.4	.2	21.6	.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: 1900-2001

(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	5.75	5.17	6.16	1998	7	16.92	1998	1.23	1981
Feb	5.10	4.47	5.37	1981	10	11.89	1983	1.09	1999
Mar	7.20	6.65	7.15	1990	16	13.46	1980	3.00	1981
Apr	5.06	4.34	13.36	1955	13	15.43	1980	.08	1999
May	6.10	5.27	7.96	1981	5	15.08	1980	.36	1996
Jun	5.01	4.33	6.08	1961	20	11.00	1982	1.26	1977
Jul	6.54	6.57	4.21	1969	18	13.14	1982	1.72	1983
Aug	6.20	5.53	5.65	1984	1	15.19	1984	1.04	1997
Sep	6.01	4.41	8.60	1998	28	24.13	1998	.74	1984
Oct	3.25	1.99	4.99	1985	29	13.20	1985	.00	1978
Nov	5.41	4.80	7.01	1975	6	12.70	1992	.85	1981
Dec	4.66	4.35	4.68	1995	18	8.86	1995	1.29	1980
Ann	66.29	65.66	13.36	Apr 1955	13	24.13	Sep 1998	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.9	7.5	3.5	1.7
Feb	8.8	6.2	3.6	1.6
Mar	9.6	7.0	3.9	2.5
Apr	7.5	5.1	2.9	1.7
May	9.0	6.5	3.6	1.8
Jun	11.1	7.5	3.5	1.6
Jul	15.1	10.3	4.6	2.0
Aug	13.6	8.8	4.1	2.2
Sep	10.4	7.6	3.2	1.6
Oct	5.4	3.6	1.7	1.1
Nov	8.6	6.1	3.2	1.6
Dec	9.5	6.3	3.3	1.5
Ann	119.5	82.5	41.1	20.9

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	1.42	1.96	2.80	3.54	4.28	5.05	5.92	6.95	8.30	10.43	12.43
Feb	1.18	1.66	2.41	3.07	3.74	4.45	5.24	6.18	7.42	9.39	11.24
Mar	3.37	4.00	4.86	5.56	6.21	6.85	7.55	8.34	9.33	10.84	12.19
Apr	.48	.84	1.52	2.23	3.00	3.86	4.89	6.18	7.94	10.88	13.75
May	.83	1.33	2.20	3.05	3.94	4.93	6.06	7.46	9.34	12.42	15.40
Jun	1.67	2.14	2.84	3.43	4.00	4.58	5.22	5.97	6.93	8.42	9.79
Jul	2.36	2.97	3.86	4.61	5.32	6.04	6.83	7.75	8.93	10.74	12.40
Aug	1.73	2.32	3.21	3.99	4.75	5.55	6.43	7.47	8.82	10.95	12.92
Sep	.92	1.43	2.30	3.13	3.99	4.93	6.02	7.34	9.12	12.01	14.79
Oct	.04	.19	.55	.98	1.49	2.11	2.88	3.89	5.33	7.82	10.34
Nov	1.05	1.54	2.33	3.06	3.80	4.60	5.50	6.59	8.03	10.34	12.54
Dec	1.88	2.31	2.92	3.42	3.89	4.37	4.88	5.48	6.23	7.39	8.44
Ann	48.29	51.81	56.30	59.69	62.70	65.60	68.59	71.88	75.87	81.64	86.62

\+ 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: 1900-2001
(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	.1	.0	#	0	1.4	1977	31	1.9	1977	1	1977	31	#	1977	.1	.0	.0	.0	.0	@	.0	.0	.0
Feb	.2	.0	#	0	3.6	1973	9	3.6	1973	1	1988	6	#	1988	.1	.1	@	.0	.0	@	.0	.0	.0
Mar	.1	.0	#	0	2.0	1993	13	2.7	1993	2	1993	13	#	1993	.1	.0	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1987	3	#	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	#	1980	.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	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	1.0	1996	18	1.0+	1996	#	1983	29	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.4	.0	N/A	N/A	3.6	Feb 1973	9	3.6	Feb 1973	2	Mar 1993	13	#+	Mar 1993	.3	.1	@	.0	.0	.0	.0	.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	4/03	3/27	3/22	3/18	3/14	3/10	3/06	3/01	2/22
32	3/21	3/14	3/09	3/04	2/28	2/24	2/20	2/15	2/07
28	3/13	3/04	2/26	2/20	2/15	2/10	2/04	1/29	1/20
24	2/28	2/18	2/10	2/03	1/28	1/20	1/11	12/26	0/00
20	2/08	1/27	1/16	1/02	0/00	0/00	0/00	0/00	0/00
16	1/14	12/25	0/00	0/00	0/00	0/00	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	10/29	11/04	11/08	11/11	11/15	11/18	11/21	11/25	12/01
32	11/08	11/15	11/20	11/25	11/29	12/03	12/07	12/12	12/19
28	11/18	11/27	12/04	12/10	12/16	12/22	12/28	1/04	1/13
24	12/05	12/18	12/28	1/05	1/13	1/22	2/03	2/23	0/00
20	12/22	1/02	1/12	1/23	0/00	0/00	0/00	0/00	0/00
16	1/06	1/26	0/00	0/00	0/00	0/00	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	267	260	254	249	245	240	236	230	223
32	302	292	285	279	273	267	261	254	244
28	342	327	317	309	301	294	286	277	265
24	>365	>365	>365	>365	354	335	323	312	300
20	>365	>365	>365	>365	>365	>365	>365	361	328
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	455	326	182	57	4	0	0	0	2	51	208	396	1681
60	359	207	90	15	0	0	0	0	0	20	132	281	1104
57	292	147	50	5	0	0	0	0	0	9	89	216	808
55	253	115	31	2	0	0	0	0	0	5	65	180	651
50	169	52	7	0	0	0	0	0	0	1	25	102	356
32	15	0	0	0	0	0	0	0	0	0	0	2	17

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	582	616	889	1039	1306	1439	1555	1545	1372	1123	824	650	12940
55	73	95	218	353	593	749	842	832	682	413	190	100	5140
57	53	71	174	296	531	689	780	770	622	354	152	77	4569
60	31	42	115	217	438	599	687	677	532	270	103	49	3760
65	9	11	45	106	282	445	527	520	384	151	41	18	2539
70	1	2	10	33	144	299	377	367	242	64	11	4	1554

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	362	424	652	807	1067	1209	1318	1306	1141	884	592	422	362	786	1438	2245	3312	4521	5839	7145	8286	9170	9762	10184
45	241	301	499	657	912	1059	1163	1151	991	729	444	292	241	542	1041	1698	2610	3669	4832	5983	6974	7703	8147	8439
50	146	189	353	507	757	909	1008	996	841	575	310	182	146	335	688	1195	1952	2861	3869	4865	5706	6281	6591	6773
55	76	107	225	363	602	759	853	841	691	422	197	103	76	183	408	771	1373	2132	2985	3826	4517	4939	5136	5239
60	33	48	121	224	447	609	698	686	541	280	108	55	33	81	202	426	873	1482	2180	2866	3407	3687	3795	3850
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	215	252	403	523	740	851	922	920	800	590	366	252	215	467	870	1393	2133	2984	3906	4826	5626	6216	6582	6834

(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