

# Climatography of the United States

No. 20

1971-2000

Station: BAY MINETTE, AL

COOP ID: 010583

Climate Division: AL 8

NWS Call Sign:

Elevation: 271 Feet Lat: 30° 53N Lon: 87° 47W

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	58.6	38.0	48.3	85	1949	11	59.7	1974	2	1985	21	39.1	1977	532	0	.0	.0	26.8	.1	8.2	.0
Feb	62.7	40.4	51.6	84	1962	27	57.8	1990	10	1951	3	44.3	1978	378	1	.0	.0	26.1	@	5.4	.0
Mar	69.7	47.0	58.4	88+	1978	31	64.3	1997	16	1980	3	54.0	1996	225	19	.0	.0	30.7	.0	1.4	.0
Apr	76.3	54.1	65.2	93	1987	22	69.5	1999	28	1987	4	61.2	1993	67	73	.0	.3	30.0	.0	.1	.0
May	82.7	62.2	72.5	100	1951	31	76.7	2000	42	1992	7	68.5	1976	4	234	.0	3.5	31.0	.0	.0	.0
Jun	87.7	68.4	78.1	105	1963	14	81.8	1977	51	1984	1	75.6	1976	0	392	.1	15.6	30.0	.0	.0	.0
Jul	89.1	70.8	80.0	103+	1980	14	84.1	2000	43	1964	4	77.5	1972	0	464	.4	21.0	31.0	.0	.0	.0
Aug	88.8	70.5	79.7	102	1954	30	83.3	1999	58+	1992	30	76.9	1992	0	454	.1	19.8	31.0	.0	.0	.0
Sep	85.1	66.1	75.6	102	1954	10	79.4	1980	41	1967	29	71.8	1975	1	319	@	10.1	30.0	.0	.0	.0
Oct	77.3	55.5	66.4	96	1954	5	72.1	1984	31	1993	31	60.9	1976	69	112	.0	.7	31.0	.0	.1	.0
Nov	68.1	47.3	57.7	86+	1973	4	64.7	1985	19	1950	25	49.4	1976	252	32	.0	.0	29.6	.0	2.1	.0
Dec	60.8	40.3	50.6	82+	1982	2	59.2	1984	7+	1989	24	42.8	1989	458	10	.0	.0	28.0	.1	7.1	.0
Ann	75.6	55.1	65.3	105	Jun 1963	14	84.1	Jul 2000	2	Jan 1985	21	39.1	Jan 1977	1986	2110	.6	71.0	355.2	.2	24.4	.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/normal/usnormals.html](http://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: 1948-2001

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

008-A

# 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: BAY MINETTE, AL**

**COOP ID: 010583**

**Climate Division: AL 8**

**NWS Call Sign:**

**Elevation: 271 Feet Lat: 30°53N**

**Lon: 87°47W**

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	6.22	6.00	5.32	1965	23	14.87	1991	1.12	1981	11.1	7.8	3.9	2.1	1.88	2.48	3.36	4.12	4.86	5.62	6.47	7.46	8.74	10.74	12.59	
Feb	5.12	4.71	5.12	1952	15	10.47	1983	1.24	1999	9.4	6.5	3.3	1.9	1.40	1.88	2.62	3.27	3.90	4.56	5.30	6.17	7.30	9.08	10.74	
Mar	6.62	6.37	9.10	1962	31	13.88	1980	2.09	2000	10.0	7.4	4.2	2.4	2.84	3.44	4.27	4.95	5.59	6.24	6.94	7.74	8.74	10.28	11.67	
Apr	4.77	4.18	12.24	1983	7	19.08	1983	.19	1999	7.3	5.1	2.8	1.5	.59	.97	1.64	2.30	3.01	3.79	4.71	5.83	7.36	9.87	12.31	
May	5.92	5.22	5.96	1957	1	15.86	1991	.09	1988	9.1	6.6	3.5	2.2	.98	1.49	2.35	3.16	4.00	4.91	5.96	7.23	8.92	11.67	14.31	
Jun	5.62	4.80	7.55	1989	8	15.40	1989	1.34	1977	11.1	7.7	3.3	1.7	1.74	2.28	3.07	3.75	4.41	5.10	5.85	6.73	7.87	9.65	11.29	
Jul	8.27	7.29	15.58	1997	20	25.28	1997	1.73	1976	15.1	10.6	5.1	2.3	2.40	3.19	4.37	5.40	6.39	7.43	8.58	9.93	11.69	14.43	16.98	
Aug	6.00	5.02	5.39	1969	18	13.60	1977	1.43	1997	13.2	9.1	3.9	1.7	1.64	2.21	3.08	3.83	4.57	5.35	6.21	7.23	8.56	10.64	12.59	
Sep	5.76	4.51	15.11	1998	28	25.78	1998	.09	1984	10.2	6.9	3.0	1.5	.79	1.26	2.09	2.89	3.73	4.65	5.73	7.04	8.82	11.73	14.53	
Oct	3.08	2.28	6.04	1995	4	10.69	1995	.00	1978	5.3	3.6	1.9	1.0	.07	.26	.65	1.08	1.57	2.15	2.84	3.74	4.99	7.13	9.25	
Nov	5.18	4.35	5.78	1989	8	13.43	1992	1.22	1999	8.5	6.0	3.2	1.9	1.33	1.82	2.58	3.24	3.89	4.58	5.35	6.25	7.44	9.31	11.06	
Dec	5.08	4.33	6.41	1983	11	12.48	1983	1.43	1980	9.5	6.4	3.3	1.5	1.78	2.26	2.95	3.54	4.10	4.68	5.31	6.04	6.97	8.42	9.75	
Ann	67.64	65.03	15.58	Jul 1997	20	25.78	Sep 1998	.00	Oct 1978	119.8	83.7	41.4	21.7	45.11	49.36	54.87	59.10	62.87	66.55	70.36	74.60	79.77	87.32	93.90	

+ 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: 1948-2001

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

Complete documentation available from:  
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**Climate Division: AL 8**

**NWS Call Sign:**

**Elevation: 271 Feet**

**Lat: 30°53N**

**Lon: 87°47W**

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	.0	#	0	1.5	1977	31	2.9	1977	#	1982	14	#	1982	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	#	0	4.5	1973	9	4.5	1973	1	1988	5	#	1988	@	@	@	.0	.0	.0	.0	.0	.0
Mar	.1	.0	#	0	3.0	1993	13	3.0	1993	#	1993	15	#	1993	@	@	@	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	2.2	1996	18	2.2	1996	2	1996	18	#+	1996	@	@	.0	.0	.0	.1	.0	.0	.0
Ann	.5	.0	N/A	N/A	4.5	Feb 1973	9	4.5	Feb 1973	2	Dec 1996	18	#+	Dec 1996	.1	.1	@	.0	.0	.1	.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	4/09	4/03	3/30	3/27	3/24	3/21	3/17	3/13	3/08
32	3/24	3/17	3/12	3/08	3/04	2/28	2/23	2/18	2/11
28	3/18	3/09	3/03	2/26	2/21	2/16	2/11	2/05	1/28
24	3/04	2/23	2/16	2/11	2/06	1/31	1/26	1/19	1/08
20	2/26	2/15	2/06	1/30	1/21	1/10	0/00	0/00	0/00
16	2/03	1/20	1/05	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	10/23	10/29	11/02	11/05	11/08	11/11	11/15	11/19	11/24
32	11/02	11/09	11/14	11/19	11/23	11/27	12/02	12/07	12/15
28	11/12	11/22	11/30	12/06	12/12	12/17	12/23	12/31	1/10
24	11/25	12/06	12/14	12/21	12/28	1/03	1/11	1/19	2/02
20	12/15	12/28	1/08	1/18	1/28	2/11	0/00	0/00	0/00
16	12/26	1/10	1/23	2/13	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	250	242	237	233	229	224	220	215	207
32	294	284	276	270	264	257	251	243	233
28	325	312	304	297	291	285	278	270	259
24	>365	>365	339	328	319	311	303	294	282
20	>365	>365	>365	>365	>365	>365	349	326	308
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

Complete documentation available from:

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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	532	378	225	67	4	0	0	0	1	69	252	458	1986
60	395	250	117	17	0	0	0	0	0	23	151	320	1273
57	321	181	70	6	0	0	0	0	0	10	105	248	941
55	277	143	46	2	0	0	0	0	0	6	78	206	758
50	186	69	12	0	0	0	0	0	0	1	32	121	421
32	15	0	0	0	0	0	0	0	0	0	0	3	18

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	520	547	817	997	1253	1382	1487	1477	1309	1066	770	578	12203
55	69	46	150	309	540	692	774	764	619	359	159	68	4549
57	51	29	112	252	478	632	712	702	559	301	125	47	4000
60	32	13	66	174	385	542	619	609	469	221	82	27	3239
65	0	1	19	73	234	392	464	454	319	112	32	10	2110
70	0	0	3	18	107	243	309	299	178	40	10	0	1207

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	366	427	650	802	1051	1180	1276	1265	1112	872	593	421	366	793	1443	2245	3296	4476	5752	7017	8129	9001	9594	10015
45	244	302	500	652	896	1030	1121	1110	962	717	443	291	244	546	1046	1698	2594	3624	4745	5855	6817	7534	7977	8268
50	151	192	355	502	741	880	966	955	812	562	311	184	151	343	698	1200	1941	2821	3787	4742	5554	6116	6427	6611
55	78	104	224	356	586	730	811	800	662	410	194	102	78	182	406	762	1348	2078	2889	3689	4351	4761	4955	5057
60	35	46	119	224	431	580	656	645	512	268	106	51	35	81	200	424	855	1435	2091	2736	3248	3516	3622	3673
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	219	265	408	524	726	822	895	887	777	576	367	254	219	484	892	1416	2142	2964	3859	4746	5523	6099	6466	6720

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)