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: BELLE MINA 2 N, AL **COOP ID: 010655**

Climate Division: AL 1 **NWS Call Sign:** **Elevation: 600 Feet** **Lat: 34˚41N** **Lon: 86˚53W**

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	48.6	29.1	38.9	78+	1952	2	47.7	1974	-19	1966	30	26.9	1977	811	0	.0	.0	15.6	2.8	19.4	.2
Feb	53.8	31.7	42.8	82	1962	13	49.7	1990	-4	1958	17	32.7	1978	622	0	.0	.0	18.2	1.3	15.0	.1
Mar	62.9	39.4	51.2	85+	1995	24	57.8	1974	7	1980	3	45.8	1971	436	6	.0	.0	27.2	.2	8.2	.0
Apr	72.0	47.0	59.5	90+	1986	28	65.4	1981	26+	1992	3	54.1	1983	191	27	.0	@	29.5	.0	1.4	.0
May	80.0	56.4	68.2	99	1962	19	73.1	1987	35+	1971	4	63.0	1976	51	150	.0	1.6	31.0	.0	.0	.0
Jun	87.1	64.2	75.7	105+	1954	27	79.9	1998	42	1984	1	72.0	1997	1	320	.1	10.2	30.0	.0	.0	.0
Jul	90.3	68.0	79.2	108	1952	28	82.3	1980	51	1967	15	76.7	1972	0	439	.6	17.9	31.0	.0	.0	.0
Aug	89.7	66.0	77.9	108	1954	16	81.9	1983	50+	1956	22	73.4	1992	0	397	.8	16.6	31.0	.0	.0	.0
Sep	83.8	59.6	71.7	105+	1954	5	76.6	1998	36+	1967	30	67.1	1975	18	218	.2	6.4	30.0	.0	.0	.0
Oct	73.6	47.1	60.4	97	1954	5	66.5	1984	24+	1952	30	54.3	1987	191	47	.0	.1	30.9	.0	1.5	.0
Nov	62.3	38.8	50.6	86	2000	1	57.5	1985	0	1950	25	41.6	1976	438	5	.0	.0	26.1	@	9.5	.0
Dec	52.4	31.8	42.1	80+	1998	6	50.7	1984	-5	1989	23	31.8	1989	710	0	.0	.0	19.1	1.3	17.3	.2
Ann	71.4	48.3	59.9	108+	Aug 1954	16	82.3	Jul 1980	-19	Jan 1966	30	26.9	Jan 1977	3469	1609	1.7	52.8	319.6	5.6	72.3	.5

+ 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: 1950-2001

(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	5.43	5.11	4.23	1950	6	10.94	1999	1.04	1986
Feb	4.57	4.09	4.45	1994	11	9.97	1991	.71	1978
Mar	6.29	5.42	7.86	1973	16	15.76	1973	2.10	1985
Apr	4.42	4.01	3.53	1963	28	9.04	1991	.68	1986
May	4.55	4.12	6.46	1980	17	10.25	1980	.73	2000
Jun	4.45	3.81	5.14	1992	26	13.46	1989	.13	1988
Jul	4.35	4.24	4.94	1978	3	8.31	1973	.55	1983
Aug	3.25	3.02	3.00	1952	30	7.17	1982	.19	1999
Sep	3.88	4.38	3.91	1997	25	8.07	1996	.56	1999
Oct	3.51	2.70	4.84	1975	8	11.32	1975	.02	2000
Nov	5.08	4.93	3.65	1957	16	10.58	1977	2.31	1997
Dec	5.53	4.59	7.38	1990	23	18.92	1990	1.04	1980
Ann	55.31	55.56	7.86	Mar 1973	16	18.92	Dec 1990	.02	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.2	8.5	4.0	1.4
Feb	10.1	7.1	2.9	1.5
Mar	11.9	8.2	4.2	1.8
Apr	10.2	7.2	3.1	1.3
May	10.7	6.6	2.9	1.4
Jun	10.5	7.2	3.1	1.4
Jul	10.9	7.4	2.7	1.0
Aug	9.0	5.4	2.2	.9
Sep	8.6	5.9	2.7	1.2
Oct	7.8	5.2	2.4	.8
Nov	10.5	7.0	3.6	1.6
Dec	11.3	7.9	4.0	1.7
Ann	123.7	83.6	37.8	16.0

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	1.89	2.40	3.15	3.78	4.38	5.00	5.68	6.46	7.47	9.03	10.46
Feb	1.41	1.85	2.49	3.05	3.58	4.14	4.75	5.48	6.40	7.85	9.20
Mar	2.24	2.83	3.69	4.41	5.10	5.81	6.58	7.47	8.62	10.39	12.01
Apr	1.27	1.69	2.32	2.87	3.41	3.96	4.58	5.31	6.25	7.73	9.11
May	1.19	1.62	2.28	2.86	3.43	4.03	4.70	5.49	6.52	8.15	9.66
Jun	.87	1.27	1.93	2.53	3.13	3.78	4.52	5.41	6.59	8.48	10.28
Jul	1.34	1.75	2.37	2.90	3.41	3.94	4.52	5.20	6.09	7.46	8.74
Aug	.73	1.03	1.50	1.93	2.36	2.82	3.33	3.94	4.74	6.02	7.23
Sep	.81	1.17	1.74	2.26	2.78	3.34	3.97	4.72	5.72	7.32	8.83
Oct	.46	.74	1.24	1.73	2.25	2.82	3.48	4.29	5.39	7.19	8.94
Nov	2.15	2.61	3.26	3.79	4.28	4.78	5.32	5.94	6.72	7.92	9.00
Dec	1.42	1.94	2.74	3.45	4.15	4.89	5.71	6.68	7.95	9.95	11.82
Ann	42.30	44.89	48.17	50.63	52.80	54.88	57.02	59.36	62.19	66.25	69.74

\+ 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: 1950-2001
(3) Derived from 1971-2000 serially complete daily data

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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	.6	.0	#	0
Feb	.4	.0	#	0
Mar	.4	.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
Dec	.2	.0	#	0
Ann	1.6	.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	1975	12	5.0	1978	1	1997	11	#+	2000
Feb	3.0	1985	12	3.0+	1979	#+	1997	10	#+	1997
Mar	7.0	1993	13	7.0	1993	#+	1998	12	#+	1998
Apr	1.0	1987	3	1.0	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	#	1989	17	#+	1989	0	0	0	0	0
Dec	1.0	1974	1	1.5	1985	2	1997	29	#+	2000
Ann	7.0	Mar 1993	13	7.0	Mar 1993	2	Dec 1997	29	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.6	.2	.1	.0	.0
Feb	.4	.3	@	.0	.0
Mar	.2	.1	@	@	.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	.3	.1	.0	.0	.0
Ann	1.5	.7	.1	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.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	.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	4/24	4/21	4/18	4/15	4/13	4/11	4/08	4/06	4/02
32	4/16	4/11	4/08	4/05	4/03	3/31	3/29	3/25	3/21
28	4/04	3/28	3/23	3/18	3/14	3/10	3/06	3/01	2/22
24	3/15	3/10	3/05	3/02	2/27	2/23	2/20	2/15	2/10
20	3/10	3/02	2/24	2/19	2/14	2/09	2/04	1/29	1/21
16	3/01	2/20	2/13	2/07	2/01	1/26	1/20	1/11	12/27

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	10/04	10/09	10/12	10/15	10/18	10/21	10/24	10/27	11/01
32	10/12	10/17	10/21	10/25	10/28	10/31	11/04	11/08	11/14
28	10/24	10/30	11/04	11/07	11/11	11/14	11/18	11/22	11/28
24	11/06	11/14	11/20	11/25	11/29	12/04	12/09	12/15	12/23
20	11/21	11/30	12/06	12/12	12/17	12/22	12/28	1/03	1/12
16	12/05	12/14	12/21	12/26	1/01	1/06	1/12	1/20	2/04

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	201	196	193	190	187	185	182	178	174
32	230	222	217	212	208	203	198	193	185
28	265	257	251	245	241	236	231	224	216
24	300	291	285	280	275	270	265	259	251
20	339	326	317	310	304	298	291	283	272
16	>365	>365	352	339	330	322	315	307	296

***** 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	811	622	436	191	51	1	0	0	18	191	438	710	3469
60	663	482	297	95	14	0	0	0	3	101	303	562	2520
57	576	404	225	55	6	0	0	0	1	62	231	475	2035
55	519	352	183	35	3	0	0	0	0	43	189	418	1742
50	385	232	98	9	0	0	0	0	0	13	104	291	1132
32	75	15	1	0	0	0	0	0	0	0	1	34	126

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	287	318	594	826	1121	1308	1462	1420	1190	878	558	347	10309
55	18	10	63	171	411	618	749	707	500	208	55	19	3529
57	13	6	43	131	352	558	687	645	440	166	37	13	3091
60	8	1	22	81	268	468	594	552	353	111	19	7	2484
65	0	0	6	27	150	320	439	397	218	47	5	0	1609
70	0	0	0	5	66	180	284	248	109	14	0	0	906

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	131	186	384	595	877	1072	1220	1183	960	647	346	168	131	317	701	1296	2173	3245	4465	5648	6608	7255	7601	7769
45	67	107	255	448	722	922	1065	1028	810	496	227	96	67	174	429	877	1599	2521	3586	4614	5424	5920	6147	6243
50	32	49	154	313	567	772	910	873	660	348	134	48	32	81	235	548	1115	1887	2797	3670	4330	4678	4812	4860
55	12	18	76	192	412	622	755	718	510	216	67	19	12	30	106	298	710	1332	2087	2805	3315	3531	3598	3617
60	0	0	34	103	270	472	600	563	364	116	26	1	0	0	34	137	407	879	1479	2042	2406	2522	2548	2549
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	75	123	237	376	577	734	832	801	643	421	221	103	75	198	435	811	1388	2122	2954	3755	4398	4819	5040	5143

(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