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: BRIDGEPORT 5 NW, AL **COOP ID: 011099**

Climate Division: AL 2 **NWS Call Sign:** **Elevation: 670 Feet** **Lat: 34˚59N** **Lon: 85˚48W**

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	48.3	27.9	38.1	75	1972	13	48.6	1974	-13+	1985	22	26.9	1977	834	0	.0	.0	14.4	2.7	21.6	.4
Feb	53.5	30.3	41.9	80	1962	13	49.5	1990	-4+	1996	5	32.9	1978	646	0	.0	.0	18.1	1.2	17.7	.1
Mar	62.8	37.8	50.3	85	1963	31	56.1	1973	9	1960	5	44.8	1971	460	4	.0	.0	27.1	.1	10.7	.0
Apr	71.8	44.3	58.1	91	1970	30	63.3	1999	22	1966	6	52.1	1983	223	14	.0	.0	29.6	.0	3.5	.0
May	78.6	53.5	66.1	97	1962	19	71.5	1987	30	1971	4	60.6	1976	83	116	.0	.3	31.0	.0	@	.0
Jun	85.7	62.1	73.9	100+	1964	21	76.8	1981	38+	1984	1	69.9	1974	3	270	.0	7.3	30.0	.0	.0	.0
Jul	89.2	66.2	77.7	101+	1962	23	81.2	1993	49	1967	15	74.9	1971	0	394	.2	14.3	31.0	.0	.0	.0
Aug	88.6	65.1	76.9	105	1957	3	80.5	1995	46	1956	22	72.6	1992	0	368	.1	11.9	31.0	.0	.0	.0
Sep	82.5	58.6	70.6	102	1957	1	75.2	1998	32	1983	23	66.8	1985	22	188	.0	4.1	30.0	.0	@	.0
Oct	72.4	45.5	59.0	91	1955	6	65.6	1984	21	1957	28	50.7	1987	221	34	.0	@	30.8	.0	3.2	.0
Nov	61.8	37.5	49.7	88	1961	2	56.0	1985	10+	1970	25	42.3	1976	464	2	.0	.0	25.8	@	11.5	.0
Dec	51.6	30.7	41.2	77	1956	8	48.8	1984	-5+	1983	26	32.6	1989	740	0	.0	.0	18.3	1.1	19.6	.2
Ann	70.6	46.6	58.6	105	Aug 1957	3	81.2	Jul 1993	-13+	Jan 1985	22	26.9	Jan 1977	3696	1390	.3	37.9	317.1	5.1	87.8	.7

\+ 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: 1948-2001

(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	6.33	6.25	3.60	1957	31	11.43	1999	1.16	1986
Feb	5.47	5.41	4.00+	1994	11	10.85	1990	1.11	1978
Mar	6.77	5.79	7.10	1973	16	16.22	1973	2.08	1988
Apr	5.09	4.63	3.48	2000	4	10.74	2000	1.23	1976
May	4.94	4.76	4.03	1984	3	10.74	1984	1.91	1992
Jun	4.63	3.96	3.18	1998	5	9.14	1989	2.28	1985
Jul	5.35	5.42	3.57	1955	25	9.71	1989	.73	1997
Aug	3.79	3.60	4.60	1985	17	7.63	1985	.15	1999
Sep	5.17	4.61	3.94	1988	12	11.44	1979	.06	1984
Oct	3.69	2.81	3.96	1995	5	9.10	1984	.49	2000
Nov	5.18	4.45	4.66	1983	28	11.64	2000	1.69	1976
Dec	6.14	5.03	6.90	1990	23	15.98	1990	1.49	1980
Ann	62.55	60.68	7.10	Mar 1973	16	16.22	Mar 1973	.06	Sep 1984

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.0	9.0	4.3	2.1
Feb	9.7	7.1	3.7	2.0
Mar	11.7	9.0	4.6	2.2
Apr	9.8	7.6	3.4	1.8
May	10.5	7.6	3.5	1.5
Jun	10.3	7.6	3.4	1.4
Jul	11.4	7.5	3.0	1.3
Aug	8.5	5.5	1.9	1.0
Sep	8.6	6.1	2.7	1.5
Oct	7.4	5.3	2.6	1.1
Nov	9.7	7.2	3.3	1.9
Dec	10.4	7.9	4.0	1.7
Ann	120.0	87.4	40.4	19.5

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	2.27	2.86	3.72	4.45	5.14	5.84	6.61	7.51	8.66	10.42	12.05
Feb	2.07	2.58	3.31	3.92	4.50	5.09	5.73	6.47	7.42	8.87	10.20
Mar	2.45	3.09	4.00	4.77	5.51	6.26	7.07	8.02	9.24	11.11	12.82
Apr	2.03	2.50	3.17	3.72	4.24	4.76	5.33	5.99	6.83	8.11	9.27
May	2.17	2.62	3.23	3.73	4.20	4.67	5.18	5.76	6.49	7.60	8.60
Jun	1.94	2.36	2.95	3.44	3.89	4.36	4.85	5.42	6.15	7.25	8.25
Jul	2.10	2.60	3.30	3.88	4.44	5.00	5.61	6.31	7.20	8.57	9.82
Aug	.99	1.35	1.90	2.38	2.86	3.36	3.92	4.58	5.44	6.79	8.06
Sep	.77	1.20	1.95	2.66	3.41	4.22	5.16	6.32	7.86	10.38	12.81
Oct	.85	1.20	1.74	2.22	2.71	3.22	3.79	4.48	5.38	6.81	8.15
Nov	1.86	2.35	3.05	3.64	4.21	4.79	5.42	6.15	7.09	8.53	9.85
Dec	1.86	2.45	3.32	4.07	4.79	5.55	6.38	7.36	8.62	10.59	12.42
Ann	46.91	50.00	53.93	56.89	59.50	62.01	64.59	67.43	70.86	75.80	80.05

\+ 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

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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	1.6	#	#	0	9.0	1988	7	10.5	1988	3	1987	22	#+	1999	.4	.3	.1	.1	.0	.1	.1	.0	.0
Feb	.2	.0	#	0	2.5	1985	12	2.5+	1985	#	1991	16	#	1991	.1	.1	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1988	13	#+	1988	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.2	.0	0	0	2.0	1987	3	2.0	1987	0	0	0	0	0	.1	.1	.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	#	1991	8	#+	1991	#	1991	8	#	1991	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	0	0	.5	1985	20	.5	1985	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	2.1	#	N/A	N/A	9.0	Jan 1988	7	10.5	Jan 1988	3	Jan 1987	22	#+	Jan 1999	.7	.5	.1	.1	.0	.1	.1	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/15	5/09	5/04	4/30	4/27	4/23	4/20	4/15	4/09
32	4/27	4/22	4/19	4/16	4/13	4/11	4/08	4/04	3/31
28	4/13	4/08	4/04	4/01	3/29	3/27	3/23	3/20	3/15
24	4/05	3/29	3/24	3/20	3/16	3/12	3/08	3/03	2/24
20	3/21	3/13	3/07	3/02	2/26	2/21	2/17	2/11	2/03
16	3/12	3/04	2/25	2/20	2/15	2/10	2/04	1/29	1/20

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	9/29	10/03	10/07	10/09	10/12	10/14	10/17	10/20	10/24
32	10/02	10/08	10/12	10/16	10/20	10/23	10/27	10/31	11/06
28	10/20	10/26	10/29	11/01	11/04	11/07	11/11	11/14	11/20
24	11/01	11/07	11/11	11/15	11/18	11/22	11/26	11/30	12/06
20	11/08	11/18	11/25	12/01	12/06	12/12	12/18	12/24	1/03
16	11/26	12/06	12/13	12/20	12/26	12/31	1/07	1/14	1/24

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	190	182	176	172	167	162	158	152	144
32	209	202	197	193	189	185	180	175	168
28	240	233	228	223	219	215	211	206	198
24	275	265	258	252	247	241	235	228	218
20	316	304	296	289	283	276	269	261	249
16	>365	332	321	314	307	301	294	286	276

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	834	646	460	223	83	3	0	0	22	221	464	740	3696
60	686	506	318	113	30	0	0	0	4	121	325	585	2688
57	599	425	243	66	14	0	0	0	1	78	249	500	2175
55	541	374	199	42	8	0	0	0	0	55	204	443	1866
50	406	250	110	10	0	0	0	0	0	18	113	309	1216
32	84	18	1	0	0	0	0	0	0	0	1	35	139

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	273	296	569	781	1055	1257	1417	1391	1156	836	530	318	9879
55	17	8	54	133	350	567	704	678	467	178	42	13	3211
57	12	3	36	97	294	507	642	616	408	139	27	9	2790
60	7	0	18	54	217	417	549	523	321	89	13	1	2209
65	0	0	4	14	116	270	394	368	188	34	2	0	1390
70	0	0	0	2	47	136	239	218	85	9	0	0	736

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	95	152	329	542	792	1020	1172	1138	911	590	303	137	95	247	576	1118	1910	2930	4102	5240	6151	6741	7044	7181
45	48	83	210	398	637	870	1017	983	761	436	193	71	48	131	341	739	1376	2246	3263	4246	5007	5443	5636	5707
50	21	36	115	265	483	720	862	828	611	295	108	33	21	57	172	437	920	1640	2502	3330	3941	4236	4344	4377
55	2	7	53	155	333	570	707	673	464	171	47	9	2	9	62	217	550	1120	1827	2500	2964	3135	3182	3191
60	0	0	16	73	197	420	552	518	323	79	15	0	0	0	16	89	286	706	1258	1776	2099	2178	2193	2193
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	62	111	222	353	515	692	804	779	609	388	198	87	62	173	395	748	1263	1955	2759	3538	4147	4535	4733	4820

(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