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: LAFAYETTE 2 W, AL **COOP ID: 014502**

Climate Division: AL 5 **NWS Call Sign:** **Elevation: 740 Feet** **Lat: 32˚54N** **Lon: 85˚26W**

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	54.6	30.4	42.5	84	1949	12	54.7	1974	-7	1985	21	31.6	1977	704	0	.0	.0	22.5	.5	16.1	.1
Feb	59.8	32.7	46.3	86	1949	26	51.9	1990	3	1996	5	38.0	1978	524	0	.0	.0	23.3	.3	10.7	.0
Mar	67.8	39.7	53.8	89	1974	10	60.1	1997	8	1980	3	47.2	1981	358	10	.0	.0	30.1	.0	5.6	.0
Apr	75.1	46.6	60.9	93	1986	27	65.3	1999	26+	2000	10	57.0	1983	152	28	.0	.2	30.0	.0	1.2	.0
May	81.8	55.4	68.6	98+	1962	19	72.6	2000	35	1997	5	63.7	1981	42	153	.0	3.5	31.0	.0	.0	.0
Jun	88.0	63.1	75.6	103+	1985	6	79.2	1998	42	1956	3	72.1	1997	1	318	.2	14.0	30.0	.0	.0	.0
Jul	90.7	67.1	78.9	107+	1952	24	81.3	1986	53	1970	6	76.6	1994	0	431	.9	19.7	31.0	.0	.0	.0
Aug	89.9	66.4	78.2	103	1954	17	81.5	1990	50	1968	30	73.8	1981	0	407	.3	17.3	31.0	.0	.0	.0
Sep	85.4	60.6	73.0	100	1954	19	77.1	1973	37+	2001	26	69.2	2000	9	250	.0	8.4	30.0	.0	.0	.0
Oct	75.9	48.3	62.1	99	1954	5	69.5	1984	23	2001	29	56.3	1987	157	66	.0	.2	31.0	.0	.9	.0
Nov	66.2	39.8	53.0	85+	1961	3	61.8	1985	6	1950	25	46.2	1976	370	10	.0	.0	29.1	.0	6.3	.0
Dec	57.3	32.5	44.9	81+	1971	15	55.4	1971	-1	1962	13	35.6	1989	625	2	.0	.0	24.7	.2	14.0	@
Ann	74.4	48.6	61.5	107+	Jul 1952	24	81.5	Aug 1990	-7	Jan 1985	21	31.6	Jan 1977	2942	1675	1.4	63.3	343.7	1.0	54.8	.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: 1948-2001

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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	5.88	6.39	5.65	1965	22	11.34	2000	1.16	1981
Feb	5.48	4.98	5.75	1961	24	10.36	1971	1.64	1999
Mar	6.60	5.95	5.70	1990	17	15.36	1980	2.21	1982
Apr	4.84	3.68	7.38	1979	13	16.40	1979	.66	1986
May	4.36	3.40	4.02	1991	14	12.88	1991	.47	1977
Jun	4.16	3.42	5.25	1972	18	14.83	1989	.78	1988
Jul	5.31	5.39	3.41	1977	29	11.68	1985	2.03	1983
Aug	3.82	3.47	2.15	1963	13	8.74	1974	1.33	1989
Sep	3.89	3.94	7.11	1956	26	10.81	1988	.39	1984
Oct	2.70	2.72	4.00	1970	29	7.05	1995	.00+	2000
Nov	4.32	3.91	4.00	1962	21	9.90	1992	1.56	1981
Dec	5.09	4.84	4.93	1961	10	11.82	1983	1.43	1979
Ann	56.45	58.02	7.38	Apr 1979	13	16.40	Apr 1979	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	8.2	3.7	1.6
Feb	8.2	6.3	3.6	1.9
Mar	9.8	7.9	4.3	2.1
Apr	7.9	6.1	3.2	1.4
May	8.8	6.5	2.9	1.0
Jun	8.7	6.6	2.5	1.1
Jul	10.4	8.1	3.7	1.5
Aug	7.7	5.8	2.6	.8
Sep	7.4	5.3	2.4	1.1
Oct	5.9	4.1	1.5	.9
Nov	8.9	6.5	2.8	1.3
Dec	8.9	6.6	3.1	1.4
Ann	103.8	78.0	36.3	16.1

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	2.20	2.75	3.54	4.20	4.82	5.46	6.16	6.96	7.99	9.57	11.01
Feb	1.93	2.45	3.20	3.83	4.43	5.05	5.72	6.51	7.51	9.06	10.48
Mar	2.31	2.93	3.84	4.60	5.33	6.08	6.89	7.85	9.06	10.95	12.68
Apr	.86	1.29	1.99	2.65	3.33	4.06	4.89	5.90	7.24	9.41	11.48
May	.85	1.25	1.89	2.47	3.07	3.71	4.43	5.31	6.46	8.32	10.08
Jun	.78	1.15	1.76	2.33	2.90	3.52	4.22	5.07	6.20	8.01	9.74
Jul	1.87	2.37	3.10	3.71	4.30	4.90	5.55	6.31	7.29	8.79	10.17
Aug	1.42	1.78	2.29	2.72	3.13	3.54	4.00	4.52	5.19	6.22	7.16
Sep	.66	1.00	1.56	2.10	2.64	3.24	3.92	4.75	5.85	7.63	9.34
Oct	.00	.60	1.16	1.58	1.98	2.40	2.85	3.36	4.06	5.15	6.18
Nov	1.58	1.99	2.57	3.06	3.52	4.00	4.52	5.12	5.89	7.07	8.15
Dec	1.81	2.29	2.99	3.57	4.12	4.69	5.31	6.04	6.96	8.39	9.70
Ann	41.54	44.47	48.19	51.00	53.49	55.89	58.36	61.08	64.37	69.13	73.22

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.2	.0	#	0
Feb	.1	.0	#	0
Mar	.1	.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	.0	.0	#	0
Ann	.4	.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	2.5	1977	31	2.8	1977	3	1977	31	#+	1998
Feb	2.0	1973	9	2.0	1973	2	1973	9	#+	1996
Mar	1.5	1980	2	1.5	1980	5	1983	24	#	1983
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	#	1975	23	#	1975	0	0	0	0	0
Dec	.5	1973	21	.5	1973	1	1973	21	#	1973
Ann	2.5	Jan 1977	31	2.8	Jan 1977	5	Mar 1983	24	#+	Jan 1998

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.1	.0	.0	.0
Feb	.1	.1	.0	.0	.0
Mar	.1	.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	.1	.0	.0	.0	.0
Ann	.5	.3	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	@	@	.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
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	4/26	4/22	4/19	4/16	4/14	4/12	4/09	4/06	4/02
32	4/15	4/10	4/07	4/03	4/01	3/29	3/26	3/22	3/17
28	4/06	3/29	3/23	3/18	3/14	3/09	3/04	2/27	2/19
24	3/14	3/07	3/02	2/26	2/22	2/18	2/13	2/08	2/01
20	3/04	2/25	2/19	2/15	2/10	2/06	2/01	1/27	1/19
16	2/26	2/17	2/09	2/03	1/28	1/21	1/13	12/29	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	10/06	10/11	10/14	10/17	10/20	10/23	10/26	10/29	11/03
32	10/15	10/21	10/24	10/28	10/31	11/03	11/06	11/10	11/16
28	11/02	11/06	11/10	11/12	11/15	11/17	11/20	11/23	11/28
24	11/07	11/17	11/24	11/30	12/06	12/12	12/18	12/25	1/04
20	11/24	12/04	12/11	12/17	12/23	12/29	1/04	1/11	1/21
16	12/07	12/18	12/25	1/01	1/07	1/14	1/22	2/03	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	206	200	196	192	188	185	181	176	170
32	234	226	221	217	213	208	204	199	192
28	274	264	257	251	245	240	234	227	217
24	314	303	295	289	284	279	273	266	257
20	347	332	323	317	311	306	300	293	283
16	>365	>365	>365	>365	352	335	322	310	295

***** 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	704	524	358	152	42	1	0	0	9	157	370	625	2942
60	559	387	227	65	10	0	0	0	1	78	242	482	2051
57	475	310	164	32	3	0	0	0	0	46	178	399	1607
55	422	260	128	18	1	0	0	0	0	30	142	347	1348
50	304	154	58	3	0	0	0	0	0	9	71	235	834
32	48	4	0	0	0	0	0	0	0	0	0	23	75

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	373	403	675	865	1134	1307	1454	1430	1230	933	630	423	10857
55	35	15	90	193	422	617	741	717	540	250	82	34	3736
57	26	9	64	147	362	557	679	655	481	204	58	24	3266
60	16	3	34	90	276	467	586	562	392	143	32	14	2615
65	0	0	10	28	153	318	431	407	250	66	10	2	1675
70	0	0	0	4	67	178	276	254	129	23	1	0	932

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	207	284	508	675	934	1103	1234	1199	1012	722	443	250	207	491	999	1674	2608	3711	4945	6144	7156	7878	8321	8571
45	116	177	365	526	779	953	1079	1044	862	567	308	150	116	293	658	1184	1963	2916	3995	5039	5901	6468	6776	6926
50	55	98	234	377	624	803	924	889	712	417	189	82	55	153	387	764	1388	2191	3115	4004	4716	5133	5322	5404
55	26	43	129	246	470	653	769	734	562	275	106	39	26	69	198	444	914	1567	2336	3070	3632	3907	4013	4052
60	3	14	54	133	318	503	614	579	413	156	44	11	3	17	71	204	522	1025	1639	2218	2631	2787	2831	2842
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	132	188	331	441	623	748	844	826	686	476	284	162	132	320	651	1092	1715	2463	3307	4133	4819	5295	5579	5741

(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