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: HALEYVILLE, AL **COOP ID: 013620**

Climate Division: AL 3 **NWS Call Sign:** **Elevation: 920 Feet** **Lat: 34˚14N** **Lon: 87˚38W**

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	28.8	38.7	80	1949	11	47.7	1974	-19	1966	30	26.8	1977	816	0	.0	.0	15.2	2.8	19.7	.3
Feb	53.9	32.0	43.0	81	1962	14	49.7	2000	-12	1958	17	32.1	1978	618	0	.0	.0	18.5	1.5	14.1	@
Mar	62.7	40.2	51.5	87	1967	13	56.7	1974	8	1980	3	44.3	1996	426	6	.0	.0	27.3	.2	7.4	.0
Apr	71.3	47.6	59.5	90	1971	20	65.7	1999	25+	1987	1	54.7	1983	197	30	.0	@	29.5	.0	1.6	.0
May	78.3	56.4	67.4	93+	1970	24	73.4	1998	36	1960	13	61.7	1976	59	131	.0	.3	31.0	.0	.0	.0
Jun	85.1	63.8	74.5	101	1952	29	79.0	1998	40+	1966	2	69.5	1974	3	286	@	5.8	30.0	.0	.0	.0
Jul	88.5	67.7	78.1	105+	1952	30	82.5	1980	49	1967	15	75.4	1976	0	406	.5	13.9	31.0	.0	.0	.0
Aug	88.3	66.6	77.5	105	2000	30	82.6	2000	50+	1974	5	73.2	1992	1	386	.3	13.4	31.0	.0	.0	.0
Sep	82.7	60.6	71.7	101+	1954	6	78.0	1998	33+	1967	30	64.9	1974	26	226	.0	5.3	30.0	.0	.0	.0
Oct	72.5	48.7	60.6	93	1954	6	67.4	1984	25	1978	18	53.9	1976	198	61	.0	.1	30.8	.0	.9	.0
Nov	61.5	40.1	50.8	85	1984	1	57.4	1985	0	1950	25	41.3	1976	433	7	.0	.0	26.1	@	7.4	.0
Dec	52.1	32.0	42.1	78+	1956	9	51.4	1984	-7	1989	23	32.1	1989	711	0	.0	.0	19.1	1.4	16.1	.2
Ann	70.5	48.7	59.6	105+	Aug 2000	30	82.6	Aug 2000	-19	Jan 1966	30	26.8	Jan 1977	3488	1539	.8	38.8	319.5	5.9	67.2	.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

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

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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	6.01	5.66	5.14	1950	6	11.58	1999	1.09	1986
Feb	5.33	5.04	4.61	1994	11	10.39	1991	.96	1978
Mar	6.78	5.76	8.27	1973	16	18.12	1973	1.96	1982
Apr	5.28	4.18	5.50	2001	4	12.04	1991	.40	1986
May	5.93	5.08	5.50	1983	19	13.62	1978	1.73	1977
Jun	4.85	4.53	3.12	1949	21	14.90	1997	.39	1988
Jul	4.88	4.79	4.00	1966	17	9.47	1998	1.08	1983
Aug	3.55	2.92	3.70	1969	19	7.34	1979	.03	1999
Sep	4.67	3.89	3.77	1997	25	11.04	1980	.22	1984
Oct	3.63	3.06	5.58	1975	17	12.66	1975	.55	2000
Nov	5.72	5.22	3.85	1984	28	10.86	1986	1.86	1971
Dec	5.87	4.78	6.72	1954	29	17.04	1990	1.93	1980
Ann	62.50	61.22	8.27	Mar 1973	16	18.12	Mar 1973	.03	Aug 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.8	8.1	4.4	2.1
Feb	9.8	7.0	3.7	1.8
Mar	11.4	9.0	4.5	2.0
Apr	9.1	6.8	3.7	1.9
May	10.3	7.5	3.5	1.5
Jun	10.1	7.3	3.0	1.6
Jul	11.1	8.4	3.3	1.4
Aug	8.2	5.1	2.6	1.1
Sep	9.2	6.3	3.0	1.5
Oct	7.2	4.9	2.4	1.2
Nov	10.1	7.6	3.9	2.0
Dec	11.0	7.6	4.1	1.8
Ann	119.3	85.6	42.1	19.9

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	1.92	2.49	3.33	4.05	4.75	5.47	6.26	7.18	8.38	10.23	11.94
Feb	1.72	2.23	2.97	3.61	4.22	4.86	5.55	6.37	7.42	9.04	10.55
Mar	2.24	2.89	3.83	4.63	5.41	6.20	7.07	8.09	9.40	11.44	13.31
Apr	1.12	1.60	2.38	3.08	3.79	4.54	5.40	6.42	7.77	9.92	11.96
May	1.54	2.10	2.96	3.72	4.47	5.25	6.13	7.16	8.52	10.65	12.64
Jun	1.31	1.77	2.47	3.08	3.69	4.32	5.02	5.85	6.93	8.62	10.21
Jul	1.81	2.26	2.92	3.47	3.99	4.52	5.10	5.78	6.63	7.95	9.16
Aug	.50	.79	1.30	1.79	2.31	2.88	3.53	4.34	5.42	7.19	8.90
Sep	.76	1.16	1.84	2.48	3.15	3.87	4.69	5.70	7.04	9.23	11.31
Oct	.76	1.09	1.62	2.10	2.59	3.11	3.70	4.41	5.35	6.84	8.25
Nov	2.17	2.71	3.47	4.10	4.71	5.32	5.99	6.76	7.74	9.25	10.63
Dec	1.86	2.42	3.25	3.95	4.63	5.34	6.11	7.02	8.19	10.01	11.70
Ann	45.95	49.20	53.33	56.46	59.22	61.89	64.63	67.66	71.31	76.60	81.15

\+ 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
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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	.5	.0	#	0
Feb	.1	.0	#	0
Mar	.3	.0	0	0
Apr	.1	.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
Nov	#	.0	0	0
Dec	.1	.0	#	0
Ann	1.1	.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	5.0	1988	7	5.0	1988	2	1975	12	#+	1999
Feb	2.0	1985	12	2.0	1985	1	1997	10	#+	1999
Mar	6.0	1993	13	6.0+	1993	0	0	0	0	0
Apr	2.0	1987	3	2.0	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	#	1993	31	#	1993	0	0	0	0	0
Nov	#	1991	8	#	1991	0	0	0	0	0
Dec	1.0	1989	9	1.0	1989	3	1997	29	#+	1997
Ann	6.0	Mar 1993	13	6.0+	Mar 1993	3	Dec 1997	29	#+	Feb 1999

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.1	@	@	.0
Feb	.3	.1	.0	.0	.0
Mar	.1	.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	.1	@	.0	.0	.0
Ann	.8	.3	@	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.0	.0	.0
Feb	.1	.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	.2	.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	4/23	4/19	4/16	4/13	4/11	4/08	4/05	4/02	3/29
32	4/16	4/12	4/09	4/06	4/04	4/01	3/30	3/27	3/22
28	4/09	4/02	3/29	3/25	3/22	3/18	3/14	3/10	3/04
24	3/18	3/12	3/08	3/04	3/01	2/26	2/22	2/18	2/12
20	3/17	3/08	3/02	2/24	2/19	2/14	2/08	2/02	1/24
16	3/08	2/27	2/21	2/16	2/11	2/06	1/31	1/24	1/10

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	10/03	10/09	10/13	10/16	10/19	10/22	10/26	10/30	11/04
32	10/13	10/19	10/24	10/28	11/01	11/04	11/08	11/13	11/20
28	10/25	11/01	11/06	11/10	11/14	11/17	11/21	11/26	12/03
24	11/04	11/13	11/19	11/24	11/29	12/04	12/10	12/16	12/24
20	11/12	11/23	12/02	12/09	12/16	12/23	12/31	1/08	1/20
16	11/29	12/10	12/18	12/25	1/01	1/08	1/15	1/25	2/12

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	210	203	199	195	191	187	183	178	172
32	234	226	220	215	210	205	200	194	186
28	266	256	249	242	236	230	224	217	206
24	301	291	284	278	273	267	261	254	245
20	347	325	313	304	296	288	279	269	256
16	>365	>365	341	329	320	311	303	294	282

***** 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	816	618	426	197	59	3	0	1	26	198	433	711	3488
60	670	479	288	102	17	0	0	0	7	110	300	566	2539
57	582	401	216	61	7	0	0	0	2	71	230	479	2049
55	525	349	175	40	3	0	0	0	1	51	190	424	1758
50	391	230	92	11	0	0	0	0	0	18	107	299	1148
32	78	16	0	0	0	0	0	0	0	0	2	40	136

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	285	322	603	823	1096	1273	1429	1408	1190	887	566	352	10234
55	19	11	65	173	386	583	716	695	501	224	64	23	3460
57	14	7	44	134	327	523	654	633	442	183	45	16	3022
60	8	1	23	85	245	433	561	540	356	129	24	10	2415
65	0	0	6	30	131	286	406	386	226	61	7	0	1539
70	0	0	0	7	54	153	252	240	122	23	1	0	852

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	122	197	396	599	867	1046	1191	1175	963	656	355	175	122	319	715	1314	2181	3227	4418	5593	6556	7212	7567	7742
45	63	115	268	454	712	896	1036	1020	813	502	235	95	63	178	446	900	1612	2508	3544	4564	5377	5879	6114	6209
50	28	56	161	316	557	746	881	865	663	355	137	48	28	84	245	561	1118	1864	2745	3610	4273	4628	4765	4813
55	6	20	82	196	402	596	726	710	514	222	73	17	6	26	108	304	706	1302	2028	2738	3252	3474	3547	3564
60	0	1	33	103	256	446	571	555	369	117	26	1	0	1	34	137	393	839	1410	1965	2334	2451	2477	2478
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	75	124	238	375	567	723	828	808	646	411	208	100	75	199	437	812	1379	2102	2930	3738	4384	4795	5003	5103

(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