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: TALLADEGA, AL **COOP ID: 018024**

Climate Division: AL 4 **NWS Call Sign:** **Elevation: 448 Feet** **Lat: 33˚25N** **Lon: 86˚08W**

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	53.8	28.1	41.0	80+	1950	25	51.7	1974	-5+	1985	21	29.2	1977	745	0	.0	.0	21.3	.7	17.1	.1
Feb	58.9	30.8	44.9	84+	1977	26	51.8	1990	2	1958	18	36.4	1978	565	0	.0	.0	22.1	.4	13.2	.0
Mar	67.4	38.0	52.7	88+	1995	24	58.6	1997	6	1993	14	45.9	1971	386	4	.0	.0	29.7	.1	6.9	.0
Apr	74.8	44.8	59.8	92	1955	18	65.3	1999	24+	1992	3	55.9	1983	183	27	.0	.1	29.9	.0	2.0	.0
May	81.3	53.5	67.4	96+	1996	25	72.3	2000	32	1971	4	60.8	1976	67	142	.0	2.1	31.0	.0	@	.0
Jun	87.8	60.9	74.4	102	1954	27	78.2	1998	39	1972	1	69.7	1974	2	283	.0	13.2	30.0	.0	.0	.0
Jul	90.7	65.6	78.2	107+	1980	17	83.4	1986	51+	1972	6	73.9	1975	0	406	1.2	20.1	31.0	.0	.0	.0
Aug	90.2	64.4	77.3	103	1954	16	82.0	1995	46	1950	23	73.0	1973	0	381	.7	18.8	31.0	.0	.0	.0
Sep	85.1	58.4	71.8	103	1954	4	76.3	1998	35	1967	30	65.9	1974	19	221	.0	7.9	30.0	.0	.0	.0
Oct	75.8	44.7	60.3	99	1954	5	66.4	1984	23+	1965	25	54.0	1976	189	41	.0	.1	30.9	.0	1.8	.0
Nov	65.9	36.8	51.4	86+	1974	2	59.0	1985	5	1950	25	42.1	1976	417	7	.0	.0	28.8	.0	8.3	.0
Dec	56.9	30.3	43.6	80	1951	7	52.0	1984	0	1962	13	36.5	1976	664	0	.0	.0	24.2	.3	14.7	.0
Ann	74.1	46.4	60.2	107+	Jul 1980	17	83.4	Jul 1986	-5+	Jan 1985	21	29.2	Jan 1977	3237	1512	1.9	62.3	339.9	1.5	64.0	.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

(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	6.12	5.86	4.01	1972	4	15.59	1972	1.05	1986
Feb	5.11	4.83	4.51	1961	21	10.37	1983	1.20	1978
Mar	6.82	6.01	7.81	1977	30	18.24	1976	1.18	1985
Apr	4.80	4.32	5.72	1974	4	18.27	1979	.35	1986
May	4.71	4.49	5.22	1983	19	11.72	1983	1.55	1995
Jun	4.64	4.17	4.60	1997	22	11.97	1989	.32	1988
Jul	4.75	4.54	3.05	1958	8	9.11	1985	1.40	1991
Aug	3.52	3.21	4.30	1982	11	9.11	1984	.60	1999
Sep	3.76	3.39	4.00	1975	23	8.04	1979	.40	1976
Oct	3.36	3.40	5.51	1995	5	11.01	1995	.02	1978
Nov	4.59	4.34	3.31	1992	2	10.69	1992	.66	1981
Dec	4.24	4.22	3.80	1973	31	8.43	1983	.98	1979
Ann	56.42	56.85	7.81	Mar 1977	30	18.27	Apr 1979	.02	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.3	8.3	4.0	1.9
Feb	8.3	6.7	4.0	2.0
Mar	9.5	7.4	4.3	2.3
Apr	7.8	6.1	3.2	1.6
May	8.2	6.5	3.2	1.4
Jun	8.5	6.9	3.0	1.6
Jul	9.8	7.9	3.7	1.3
Aug	7.7	6.2	2.6	.9
Sep	6.1	4.7	2.4	1.4
Oct	5.5	4.4	2.2	1.1
Nov	7.6	6.4	3.5	1.6
Dec	9.1	7.2	2.9	1.4
Ann	98.4	78.7	39.0	18.5

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	2.05	2.63	3.48	4.20	4.89	5.61	6.39	7.30	8.47	10.29	11.96
Feb	1.55	2.04	2.76	3.39	3.99	4.62	5.31	6.13	7.18	8.82	10.35
Mar	1.94	2.58	3.56	4.41	5.24	6.11	7.07	8.20	9.67	11.97	14.11
Apr	.90	1.33	2.04	2.69	3.35	4.06	4.87	5.84	7.14	9.22	11.20
May	1.42	1.87	2.54	3.12	3.67	4.25	4.89	5.64	6.62	8.13	9.54
Jun	1.12	1.56	2.24	2.84	3.44	4.07	4.78	5.62	6.73	8.47	10.12
Jul	1.71	2.16	2.81	3.35	3.86	4.39	4.97	5.64	6.49	7.81	9.02
Aug	1.04	1.37	1.88	2.31	2.73	3.17	3.65	4.22	4.96	6.11	7.19
Sep	.58	.90	1.45	1.97	2.51	3.10	3.77	4.60	5.70	7.50	9.22
Oct	.34	.58	1.04	1.51	2.01	2.58	3.25	4.09	5.24	7.15	9.02
Nov	1.25	1.68	2.34	2.92	3.49	4.09	4.75	5.53	6.55	8.14	9.64
Dec	1.20	1.60	2.21	2.74	3.26	3.80	4.40	5.11	6.02	7.46	8.80
Ann	39.35	42.63	46.84	50.05	52.91	55.68	58.54	61.71	65.56	71.16	76.01

\+ 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	.5	.0	#	0	6.5	1992	19	6.5	1992	#	1996	7	#	1996	.2	.1	.1	.1	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.5	1971	13	.5	1971	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.9	.0	0	0	13.0	1993	13	13.0	1993	0	0	0	0	0	.1	.1	.1	.1	.1	.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	#	.0	0	0	#	1992	9	#+	1992	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.4	.0	N/A	N/A	13.0	Mar 1993	13	13.0	Mar 1993	#	Jan 1996	7	#	Jan 1996	.4	.2	.2	.2	.1	.0	.0	.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	5/07	5/02	4/28	4/25	4/22	4/19	4/16	4/13	4/08
32	4/25	4/19	4/15	4/12	4/09	4/05	4/02	3/29	3/24
28	4/10	4/04	3/30	3/26	3/22	3/18	3/14	3/10	3/03
24	3/29	3/22	3/16	3/11	3/07	3/02	2/26	2/20	2/13
20	3/11	3/03	2/25	2/20	2/16	2/11	2/07	2/01	1/24
16	3/05	2/24	2/18	2/12	2/07	2/02	1/27	1/19	1/05

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	10/05	10/09	10/12	10/14	10/17	10/19	10/22	10/25	10/29
32	10/11	10/17	10/21	10/25	10/29	11/01	11/05	11/09	11/15
28	10/28	11/02	11/05	11/08	11/11	11/14	11/17	11/21	11/26
24	11/04	11/11	11/17	11/22	11/26	12/01	12/06	12/11	12/19
20	11/19	11/28	12/05	12/11	12/16	12/21	12/27	1/03	1/12
16	12/03	12/16	12/24	1/01	1/08	1/16	1/24	2/04	2/23

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	188	184	180	177	174	170	166	160
32	224	217	211	207	202	198	193	188	180
28	258	250	243	238	233	229	223	217	209
24	292	282	275	269	264	258	252	245	235
20	331	320	312	306	301	295	290	283	273
16	>365	>365	>365	344	332	323	314	305	293

***** 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	745	565	386	183	67	2	0	0	19	189	417	664	3237
60	602	426	247	88	22	0	0	0	4	97	284	518	2288
57	516	348	177	48	10	0	0	0	1	59	216	432	1807
55	461	297	138	29	6	0	0	0	0	39	176	377	1523
50	334	184	62	6	0	0	0	0	0	11	96	256	949
32	55	8	0	0	0	0	0	0	0	0	1	24	88

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	333	367	642	834	1098	1271	1429	1404	1192	876	581	383	10410
55	25	12	66	173	391	581	716	691	503	202	66	23	3449
57	18	8	44	132	333	521	654	629	443	159	46	16	3003
60	11	1	21	81	253	431	561	536	356	104	25	9	2389
65	0	0	4	27	142	283	406	381	221	41	7	0	1512
70	0	0	0	5	64	149	262	234	113	11	0	0	838

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	187	256	469	642	896	1076	1225	1196	996	690	413	234	187	443	912	1554	2450	3526	4751	5947	6943	7633	8046	8280
45	103	155	328	493	741	926	1070	1041	846	535	279	135	103	258	586	1079	1820	2746	3816	4857	5703	6238	6517	6652
50	54	83	206	348	586	776	915	886	696	386	173	73	54	137	343	691	1277	2053	2968	3854	4550	4936	5109	5182
55	22	38	108	217	432	626	760	731	546	241	87	35	22	60	168	385	817	1443	2203	2934	3480	3721	3808	3843
60	1	10	49	114	281	476	605	576	396	134	39	10	1	11	60	174	455	931	1536	2112	2508	2642	2681	2691
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	118	176	310	426	597	728	834	810	673	460	275	156	118	294	604	1030	1627	2355	3189	3999	4672	5132	5407	5563

(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