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: ASHLAND 3 SE, AL **COOP ID: 010369**

Climate Division: AL 5 **NWS Call Sign:** **Elevation: 1,010 Feet** **Lat: 33˚14N** **Lon: 85˚49W**

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	52.0	33.4	42.7	77	1975	30	54.9	1974	-7	1985	21	31.4	1977	694	0	.0	.0	19.1	1.6	18.6	.1
Feb	56.9	36.2	46.6	80+	1986	5	53.7	1990	1	1996	5	37.9	1978	517	0	.0	.0	20.4	.7	14.2	.0
Mar	65.0	42.8	53.9	86+	1995	24	61.0	1997	8	1993	15	47.0	1996	358	15	.0	.0	28.6	.1	7.4	.0
Apr	72.6	49.2	60.9	91	1986	27	64.5+	1991	23	1987	1	55.6	1983	152	28	.0	@	29.8	.0	1.8	.0
May	78.9	57.6	68.3	94+	1996	25	72.5	1998	33	1963	1	64.9	1981	41	141	.0	.3	31.0	.0	.0	.0
Jun	85.2	64.7	75.0	100	1964	21	78.4	1998	42	1966	2	71.1	1999	1	297	.0	6.3	30.0	.0	.0	.0
Jul	87.9	68.8	78.4	106	1980	17	82.3	1986	51	1963	10	73.7	1999	0	411	.3	12.1	31.0	.0	.0	.0
Aug	87.3	68.1	77.7	99+	2000	19	80.9	1987	51	1992	29	74.4	1997	0	393	.0	9.3	31.0	.0	.0	.0
Sep	82.3	63.2	72.8	97+	1957	2	76.5	1978	34+	1967	30	70.1	1974	7	239	.0	3.1	30.0	.0	.0	.0
Oct	73.3	51.7	62.5	90	1959	3	68.6	1984	26	2001	29	57.3	1987	136	58	.0	.0	30.9	.0	1.2	.0
Nov	63.8	44.1	54.0	83+	1974	3	61.8	1985	11	1970	24	47.0	1976	344	13	.0	.0	27.4	@	8.1	.0
Dec	54.9	36.6	45.8	78	1967	14	54.5	1971	1+	1983	26	36.3	2000	597	1	.0	.0	22.2	.8	15.9	.0
Ann	71.7	51.4	61.6	106	Jul 1980	17	82.3	Jul 1986	-7	Jan 1985	21	31.4	Jan 1977	2847	1596	.3	31.1	331.4	3.2	67.2	.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	6.19	6.20	5.90	1976	25	13.78	1972	.46	1986
Feb	5.73	4.90	4.47	1995	11	11.41	1990	1.66	1976
Mar	7.23	6.44	7.50	1979	4	14.61	1976	1.79	1982
Apr	4.95	4.37	4.67	2001	4	14.22	1979	.61	1986
May	4.53	3.75	4.31	1996	28	14.20	1991	.51	2000
Jun	4.50	4.02	5.73	1957	4	10.75	1997	.21	1988
Jul	5.26	5.32	3.05	1975	7	9.82	1974	.65	1978
Aug	3.87	3.20	3.65	1958	12	9.75	1974	1.26	1998
Sep	3.99	3.50	5.64	1988	17	12.80	1988	.27	1984
Oct	3.40	3.21	5.49	1995	5	11.86	1995	.16	1978
Nov	4.75	4.11	5.20	2000	9	11.46	1992	1.53	1999
Dec	5.01	4.82	4.21	1961	10	12.58	1983	1.44	1979
Ann	59.41	60.52	7.50	Mar 1979	4	14.61	Mar 1976	.16	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.6	8.6	4.0	2.1
Feb	9.8	6.9	4.0	2.1
Mar	10.8	8.3	4.5	2.3
Apr	9.6	6.8	3.4	1.7
May	9.8	6.7	2.8	1.4
Jun	10.0	6.7	3.2	1.3
Jul	12.3	8.2	3.6	1.6
Aug	10.2	6.6	2.7	1.2
Sep	9.0	5.8	2.3	1.1
Oct	6.9	4.4	2.1	1.0
Nov	9.4	6.6	3.3	1.5
Dec	10.7	7.3	3.3	1.6
Ann	121.1	82.9	39.2	18.9

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	1.97	2.56	3.43	4.17	4.89	5.63	6.44	7.40	8.62	10.54	12.30
Feb	1.89	2.43	3.23	3.91	4.56	5.24	5.97	6.84	7.94	9.66	11.25
Mar	2.59	3.27	4.25	5.08	5.87	6.67	7.55	8.57	9.88	11.90	13.74
Apr	1.36	1.83	2.54	3.16	3.77	4.41	5.12	5.96	7.05	8.76	10.36
May	1.18	1.61	2.27	2.85	3.42	4.02	4.68	5.47	6.50	8.13	9.65
Jun	1.06	1.48	2.14	2.73	3.31	3.93	4.63	5.45	6.54	8.26	9.88
Jul	1.51	2.01	2.76	3.42	4.05	4.72	5.45	6.32	7.45	9.21	10.85
Aug	1.14	1.51	2.06	2.54	3.00	3.49	4.02	4.64	5.45	6.72	7.90
Sep	.53	.86	1.43	1.98	2.56	3.21	3.95	4.87	6.11	8.14	10.10
Oct	.54	.83	1.33	1.79	2.28	2.80	3.41	4.15	5.13	6.74	8.27
Nov	1.67	2.12	2.77	3.32	3.84	4.38	4.96	5.64	6.52	7.87	9.11
Dec	1.81	2.28	2.95	3.53	4.07	4.63	5.23	5.94	6.84	8.23	9.50
Ann	43.95	46.98	50.85	53.76	56.34	58.82	61.38	64.19	67.59	72.50	76.73

+ 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	.9	.0	#	0	5.8	1987	22	6.3	1987	6+	1992	19	#+	2000	.7	.3	.1	@	.0	.8	.2	@	.0
Feb	.4	.0	#	0	2.5	1995	7	2.5	1995	2	1995	7	#+	1999	.5	.2	.0	.0	.0	.1	.0	.0	.0
Mar	.6	.0	#	0	7.0	1993	13	8.0	1993	8	1993	14	1	1993	.2	.1	.1	.1	.0	.2	.1	.1	.0
Apr	.2	.0	#	0	5.5	1987	3	5.5	1987	6	1987	3	#	1987	@	@	@	@	.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	#	1993	31	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	0	0	#	1980	28	#	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	2.7	1997	29	3.5	1997	#	1983	27	#	1983	.2	.1	.0	.0	.0	.0	.0	.0	.0
Ann	2.4	.0	N/A	N/A	7.0	Mar 1993	13	8.0	Mar 1993	8	Mar 1993	14	1	Mar 1993	1.6	.7	.2	.1	.0	1.1	.3	.1	.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	5/01	4/26	4/23	4/20	4/17	4/14	4/11	4/08	4/03
32	4/24	4/17	4/12	4/08	4/04	3/31	3/27	3/22	3/16
28	4/13	4/05	3/30	3/25	3/21	3/16	3/11	3/05	2/25
24	3/24	3/16	3/11	3/06	3/02	2/26	2/22	2/16	2/09
20	3/11	3/03	2/24	2/19	2/14	2/09	2/04	1/29	1/20
16	3/04	2/22	2/15	2/08	2/02	1/27	1/20	1/10	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	10/04	10/08	10/12	10/14	10/17	10/19	10/22	10/25	10/30
32	10/15	10/21	10/25	10/28	11/01	11/04	11/07	11/12	11/17
28	10/24	10/31	11/05	11/09	11/13	11/17	11/22	11/27	12/03
24	11/08	11/15	11/19	11/24	11/27	12/01	12/05	12/10	12/16
20	12/03	12/10	12/15	12/19	12/23	12/27	12/31	1/05	1/12
16	12/03	12/14	12/22	12/29	1/04	1/11	1/19	1/30	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	202	195	190	186	182	179	174	170	163
32	237	227	221	215	210	204	199	192	183
28	266	256	249	243	237	231	225	218	208
24	295	286	280	274	269	264	259	253	244
20	344	329	321	314	308	303	297	290	281
16	>365	>365	>365	339	327	318	311	303	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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	694	517	358	152	41	1	0	0	7	136	344	597	2847
60	551	384	232	65	9	0	0	0	1	61	220	454	1977
57	467	307	171	32	3	0	0	0	0	33	160	371	1544
55	413	259	136	19	1	0	0	0	0	20	127	319	1294
50	293	158	67	3	0	0	0	0	0	5	60	210	796
32	40	5	0	0	0	0	0	0	0	0	0	15	60

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	371	412	680	866	1123	1286	1434	1416	1222	945	659	443	10857
55	31	22	103	195	411	596	721	703	532	252	96	33	3695
57	22	14	76	149	351	536	659	641	472	203	69	23	3215
60	14	7	43	91	264	446	566	548	383	138	39	13	2552
65	0	0	15	28	141	297	411	393	239	58	13	1	1596
70	0	0	3	5	58	160	257	239	117	17	2	0	858

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	157	220	417	597	853	1032	1172	1144	947	653	377	204	157	377	794	1391	2244	3276	4448	5592	6539	7192	7569	7773
45	77	129	282	448	698	882	1017	989	797	500	253	116	77	206	488	936	1634	2516	3533	4522	5319	5819	6072	6188
50	35	65	172	306	543	732	862	834	647	348	146	58	35	100	272	578	1121	1853	2715	3549	4196	4544	4690	4748
55	17	28	87	187	390	582	707	679	497	214	72	25	17	45	132	319	709	1291	1998	2677	3174	3388	3460	3485
60	0	2	34	88	243	432	552	524	351	112	26	3	0	2	36	124	367	799	1351	1875	2226	2338	2364	2367
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	100	147	269	381	558	701	815	799	641	418	241	131	100	247	516	897	1455	2156	2971	3770	4411	4829	5070	5201

(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

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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