

# Climatology of the United States

No. 20

1971-2000

Station: HEADLAND, AL

COOP ID: 013761

Climate Division: AL 7

NWS Call Sign:

Elevation: 370 Feet Lat: 31° 21N Lon: 85° 20W

## 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	59.1	36.2	47.7	84	1955	4	62.2	1974	0	1985	21	38.3	1977	550	0	.0	.0	24.9	.2	12.8	@
Feb	63.7	39.2	51.5	87	1956	18	56.3	1990	10	1996	5	42.8	1978	381	1	.0	.0	25.0	.2	7.9	.0
Mar	71.4	46.0	58.7	89	1974	11	64.9	1997	12	1980	3	53.0	1971	226	30	.0	.0	30.3	@	2.2	.0
Apr	78.6	52.0	65.3	94	1987	23	70.1	1981	27	2000	5	60.5	1993	75	84	.0	.7	29.9	.0	.2	.0
May	86.1	60.4	73.3	100+	1996	24	76.5	1996	41	1979	26	69.8	1999	5	261	@	6.4	31.0	.0	.0	.0
Jun	91.5	67.1	79.3	104+	1998	23	83.6	1981	45	2000	7	75.4	1997	0	429	.8	18.5	30.0	.0	.0	.0
Jul	93.3	69.2	81.3	108	2000	21	84.3	1981	51	1967	15	77.3	1994	0	503	1.4	23.7	31.0	.0	.0	.0
Aug	92.5	68.0	80.3	106	2000	19	82.8	1987	54	1986	30	77.2	1994	0	473	.6	23.1	31.0	.0	.0	.0
Sep	88.2	63.7	76.0	101	1997	22	80.9	1980	39	1967	30	73.6	1996	1	329	.1	12.8	30.0	.0	.0	.0
Oct	79.4	52.1	65.8	96+	1954	6	72.4	1984	26	2001	17	59.4	1987	88	110	.0	1.2	31.0	.0	.5	.0
Nov	69.9	44.9	57.4	88	1971	2	64.3	1986	15	1970	25	50.0	1976	259	32	.0	.0	29.5	.0	3.5	.0
Dec	61.9	38.4	50.2	83+	1978	8	59.0	1971	5+	1989	24	41.5	1989	473	12	.0	.0	27.1	.2	9.9	.0
Ann	78.0	53.1	65.6	108	Jul 2000	21	84.3	Jul 1981	0	Jan 1985	21	38.3	Jan 1977	2058	2264	2.9	86.4	350.7	.6	37.0	@

+ 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/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormals.html)

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

035-A

# 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: HEADLAND, AL**

**COOP ID: 013761**

**Climate Division: AL 7**

**NWS Call Sign:**

**Elevation: 370 Feet Lat: 31°21N**

**Lon: 85°20W**

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	6.32	5.34	5.25	1962	6	13.69	1991	1.53	1981	10.8	8.0	4.2	1.9	2.27	2.87	3.73	4.45	5.14	5.84	6.61	7.50	8.64	10.40	12.02
Feb	5.19	4.74	5.95	1981	11	9.75	1974	.94	1980	8.6	6.2	3.3	1.7	1.31	1.80	2.55	3.22	3.88	4.58	5.35	6.28	7.48	9.39	11.17
Mar	6.18	5.93	5.50	1998	8	15.39	1980	2.21	1985	9.9	7.3	3.9	1.7	2.37	2.94	3.76	4.45	5.09	5.76	6.47	7.30	8.36	9.98	11.45
Apr	3.80	3.16	7.30	1975	10	11.78	1975	.32	1987	7.1	4.8	2.4	1.3	.44	.73	1.26	1.79	2.35	2.99	3.72	4.64	5.88	7.94	9.94
May	4.22	3.40	4.72	1999	7	10.41	1973	.00	2000	8.1	5.8	2.6	1.4	.44	.95	1.65	2.26	2.88	3.55	4.30	5.21	6.42	8.36	10.21
Jun	4.83	3.73	5.75	1972	20	11.57	1989	1.72	1993	10.8	7.6	3.0	1.4	1.40	1.86	2.55	3.15	3.73	4.34	5.01	5.80	6.82	8.42	9.91
Jul	6.06	5.32	9.08	1994	6	19.42	1994	1.27	2000	12.9	9.5	3.9	1.5	1.76	2.34	3.21	3.96	4.69	5.45	6.29	7.28	8.56	10.57	12.44
Aug	4.19	3.76	5.20	1996	31	13.13	1996	1.09+	1999	10.1	7.0	2.4	1.2	1.06	1.45	2.06	2.60	3.14	3.70	4.32	5.06	6.03	7.57	9.00
Sep	4.17	3.46	5.97	1998	3	14.75	1998	.04	1972	8.4	5.7	2.5	1.2	.43	.74	1.31	1.90	2.52	3.23	4.06	5.09	6.50	8.85	11.14
Oct	3.18	2.73	6.81	1996	3	8.69	1996	.01	1987	5.5	3.6	1.7	1.0	.14	.30	.65	1.07	1.56	2.15	2.87	3.81	5.15	7.45	9.76
Nov	4.25	3.33	6.65	1989	9	11.53	1992	1.31	1981	7.9	5.5	2.6	1.3	1.31	1.71	2.31	2.83	3.33	3.85	4.42	5.09	5.95	7.30	8.55
Dec	4.22	3.66	5.46	1964	26	9.00	1973	1.16	1980	9.1	6.2	2.8	1.3	1.25	1.65	2.25	2.77	3.28	3.81	4.39	5.07	5.96	7.34	8.62
Ann	56.61	58.06	9.08	Jul 1994	6	19.42	Jul 1994	.00	May 2000	109.2	77.2	35.3	16.9	38.53	41.97	46.41	49.81	52.84	55.78	58.83	62.22	66.34	72.34	77.56

+ 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: 1950-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:  
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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Station: HEADLAND, AL

COOP ID: 013761

Climate Division: AL 7

NWS Call Sign:

Elevation: 370 Feet

Lat: 31°21N

Lon: 85°20W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.2	.0	0	0	3.5	1977	31	3.5	1977	0	0	0	0	0	@	@	@	.0	.0	.0	.0	.0	.0
Feb	.2	.0	0	0	4.0	1973	10	4.0	1973	0	0	0	0	0	@	@	@	.0	.0	.0	.0	.0	.0
Mar	.1	.0	0	0	1.0	1980	2	1.0	1980	0	0	0	0	0	@	@	.0	.0	.0	.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	#	1989	23	#	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.5	.0	N/A	N/A	4.0	Feb 1973	10	4.0	Feb 1973	0	0	0	0	0	@	@	@	.0	.0	.0	.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

Complete documentation available from:

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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	4/16	4/10	4/06	4/02	3/30	3/26	3/22	3/18	3/12
32	3/28	3/21	3/17	3/13	3/09	3/05	3/01	2/25	2/18
28	3/18	3/10	3/04	2/27	2/23	2/18	2/13	2/07	1/30
24	3/09	2/28	2/21	2/16	2/11	2/06	1/31	1/24	1/14
20	2/24	2/14	2/07	1/31	1/25	1/18	1/09	12/24	0/00
16	1/30	1/18	1/08	12/27	0/00	0/00	0/00	0/00	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	10/16	10/23	10/27	10/31	11/04	11/08	11/11	11/16	11/22
32	10/20	10/27	11/01	11/06	11/10	11/15	11/19	11/25	12/02
28	11/03	11/12	11/19	11/25	11/30	12/06	12/12	12/19	12/28
24	11/21	12/01	12/09	12/16	12/22	12/29	1/05	1/13	1/27
20	12/08	12/21	12/30	1/07	1/15	1/24	2/04	2/24	0/00
16	12/19	12/31	1/11	1/23	2/11	0/00	0/00	0/00	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	247	237	230	224	219	213	207	200	190
32	276	265	258	252	246	240	234	226	216
28	316	304	295	287	280	273	265	257	244
24	>365	342	328	318	310	303	295	286	274
20	>365	>365	>365	>365	355	340	328	318	304
16	>365	>365	>365	>365	>365	>365	>365	>365	327

\* 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

Complete documentation available from:

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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	550	381	226	75	5	0	0	0	1	88	259	473	2058
60	418	252	125	23	0	0	0	0	0	35	158	337	1348
57	344	183	79	9	0	0	0	0	0	17	110	266	1008
55	299	144	54	5	0	0	0	0	0	10	83	224	819
50	207	69	17	0	0	0	0	0	0	2	35	139	469
32	21	0	0	0	0	0	0	0	0	0	0	6	27

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	505	544	827	999	1279	1419	1526	1496	1318	1045	763	568	12289
55	71	44	168	314	566	729	813	783	628	343	156	74	4689
57	53	27	130	258	504	669	751	721	568	288	123	53	4145
60	34	12	83	182	411	579	658	628	478	212	81	31	3389
65	0	1	30	84	261	429	503	473	329	110	32	12	2264
70	0	0	8	25	133	280	348	318	189	43	11	1	1356

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	275	354	582	749	1025	1167	1264	1238	1071	795	529	336	275	629	1211	1960	2985	4152	5416	6654	7725	8520	9049	9385
45	171	232	435	600	870	1017	1109	1083	921	640	385	216	171	403	838	1438	2308	3325	4434	5517	6438	7078	7463	7679
50	94	142	294	453	715	867	954	928	771	487	258	124	94	236	530	983	1698	2565	3519	4447	5218	5705	5963	6087
55	45	71	179	312	560	717	799	773	621	336	159	67	45	116	295	607	1167	1884	2683	3456	4077	4413	4572	4639
60	17	28	92	187	405	567	644	618	471	204	79	26	17	45	137	324	729	1296	1940	2558	3029	3233	3312	3338
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	174	223	364	483	687	791	857	840	723	521	335	214	174	397	761	1244	1931	2722	3579	4419	5142	5663	5998	6212

(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](http://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.  
Complete documentation for the 1971-2000 Normals is available on the internet from:  
[www.ncdc.noaa.gov/oa/climate/normal/usnormals.html](http://www.ncdc.noaa.gov/oa/climate/normal/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 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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)