

Climatology of the United States

No. 20

1971-2000

Station: CODEN, AL

COOP ID: 011803

Climate Division: AL 8

NWS Call Sign:

Elevation: 12 Feet

Lat: 30° 23N

Lon: 88° 14W

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	60.8	38.3	49.6	80	1957	31	60.0	1974	1	1985	21	42.1	1977	490	0	.0	.0	26.0	.1	9.6	.0
Feb	64.0	40.8	52.4	82	1957	9	57.7	1990	12+	1996	6	44.7	1978	354	1	.0	.0	26.4	.1	6.0	.0
Mar	69.6	46.4	58.0	84+	1991	25	63.8	1997	17	1980	3	53.3	1996	236	18	.0	.0	30.6	.0	1.7	.0
Apr	75.7	53.2	64.5	88+	1971	21	69.8	1999	32+	2000	10	60.6	1993	80	64	.0	.1	30.0	.0	.1	.0
May	82.1	61.9	72.0	95	1962	19	75.5	1991	41+	1971	4	69.2	1976	6	223	.0	.6	31.0	.0	.0	.0
Jun	87.6	68.5	78.1	99	1971	12	81.2	1981	45	1984	1	74.9	1976	0	392	.0	8.8	30.0	.0	.0	.0
Jul	89.7	71.8	80.8	101	1957	10	83.0	1981	56	1967	16	77.9	1975	0	488	.1	18.2	31.0	.0	.0	.0
Aug	89.3	71.6	80.5	101	2000	30	82.8	1999	59	1967	12	78.2	1992	0	478	.1	16.5	31.0	.0	.0	.0
Sep	86.1	67.1	76.6	99	1963	5	80.8	1980	40	1967	29	72.4	1983	0	348	.0	6.9	30.0	.0	.0	.0
Oct	78.5	56.0	67.3	98	1970	3	71.4+	1985	30	1957	28	61.5	1976	55	124	.0	.5	31.0	.0	.1	.0
Nov	70.0	46.8	58.4	89	1974	2	65.1	1985	22	1969	15	50.7	1976	235	36	.0	.0	29.7	.0	2.6	.0
Dec	63.0	40.9	52.0	80+	1998	2	59.6	1982	7	1983	25	43.2	1989	418	13	.0	.0	28.6	.1	7.9	.0
Ann	76.4	55.3	65.9	101+	Aug 2000	30	83.0	Jul 1981	1	Jan 1985	21	42.1	Jan 1977	1874	2185	.2	51.6	355.3	.3	28.0	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1956-2001

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

020-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: CODEN, AL

COOP ID: 011803

Climate Division: AL 8

NWS Call Sign:

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Lat: 30°23N

Lon: 88°14W

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	6.42	5.42	7.06	1992	13	17.69	1998	1.70	2000	8.6	7.0	4.2	2.0	1.81	2.42	3.34	4.14	4.93	5.75	6.66	7.73	9.12	11.31	13.34
Feb	5.77	5.34	8.40	1981	10	14.44	1982	.55	1999	8.6	6.3	3.5	1.9	1.07	1.59	2.43	3.21	4.01	4.87	5.85	7.03	8.59	11.12	13.52
Mar	7.04	6.84	8.52	1979	3	12.18	1979	2.13	1981	8.4	6.3	3.8	2.2	3.26	3.87	4.73	5.41	6.06	6.70	7.39	8.17	9.16	10.66	12.00
Apr	4.20	3.36	6.98	1957	1	12.67	1983	.05	1971	5.4	4.5	2.1	1.3	.32	.60	1.14	1.72	2.36	3.10	3.98	5.10	6.64	9.24	11.80
May	4.92	4.03	7.48	1978	3	18.14	1991	.74	1996	6.7	5.4	2.7	1.6	.82	1.25	1.96	2.64	3.34	4.09	4.96	6.01	7.41	9.69	11.86
Jun	4.32	3.69	6.85	1961	20	11.30	1994	.36	1977	9.4	7.4	3.2	1.5	.75	1.13	1.77	2.36	2.96	3.62	4.37	5.27	6.48	8.43	10.30
Jul	7.70	7.64	12.15	1997	20	25.49	1997	1.02	1976	12.5	9.7	4.4	2.2	1.79	2.50	3.63	4.64	5.64	6.71	7.91	9.34	11.21	14.19	16.99
Aug	5.97	5.74	7.01	1984	2	17.53	1984	1.15	1980	12.2	8.7	3.6	1.8	1.55	2.11	2.98	3.74	4.49	5.28	6.16	7.21	8.56	10.71	12.72
Sep	5.08	4.11	8.30	1967	6	20.55	1998	.74	1984	9.2	7.1	3.0	1.5	.81	1.25	1.99	2.69	3.41	4.20	5.10	6.20	7.67	10.05	12.34
Oct	3.52	2.68	8.75	1994	2	12.38	1985	.00+	1978	4.4	3.6	1.9	1.2	.00	.31	.91	1.46	2.04	2.69	3.45	4.37	5.64	7.74	9.79
Nov	4.83	4.46	4.42	1982	3	11.08	1992	.83	1999	7.5	5.8	3.1	1.7	1.05	1.49	2.20	2.84	3.49	4.17	4.94	5.87	7.08	9.02	10.86
Dec	4.37	4.08	4.10+	1998	13	8.64	1982	1.19	1980	7.6	5.7	3.0	1.4	1.73	2.13	2.70	3.18	3.63	4.08	4.57	5.14	5.86	6.97	7.97
Ann	64.14	65.25	12.15	Jul 1997	20	25.49	Jul 1997	.00+	Oct 1978	100.5	77.5	38.5	20.3	42.82	46.84	52.06	56.05	59.62	63.09	66.70	70.70	75.59	82.73	88.94

+ 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: 1956-2001

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

Complete documentation available from:
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Station: CODEN, AL

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NWS Call Sign:

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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	.0	.0	0	0	.4	1977	18	.4	1977	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	2.5	1973	9	2.5	1973	3	1973	9	#	1973	.1	.1	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1993	13	#	1993	0	0	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	2.5	Feb 1973	9	2.5	Feb 1973	3	Feb 1973	9	#	Feb 1973	.2	.1	.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

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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	4/08	4/03	3/29	3/26	3/22	3/19	3/15	3/11	3/05
32	3/27	3/21	3/16	3/11	3/07	3/03	2/27	2/22	2/15
28	3/11	3/03	2/25	2/20	2/16	2/11	2/06	1/31	1/23
24	3/04	2/21	2/13	2/05	1/29	1/22	1/12	12/25	0/00
20	2/18	2/07	1/30	1/22	1/13	12/31	0/00	0/00	0/00
16	1/20	1/06	0/00	0/00	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	10/21	10/29	11/03	11/08	11/12	11/16	11/21	11/26	12/03
32	11/02	11/09	11/15	11/19	11/23	11/27	12/01	12/06	12/13
28	11/09	11/20	11/27	12/04	12/10	12/15	12/22	12/29	1/09
24	12/01	12/14	12/23	12/31	1/09	1/18	1/29	2/18	0/00
20	12/13	12/27	1/06	1/16	1/26	2/11	0/00	0/00	0/00
16	1/03	1/15	0/00	0/00	0/00	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	259	250	244	239	234	229	224	217	209
32	289	279	272	266	260	254	248	241	231
28	331	317	308	301	294	287	280	272	261
24	>365	>365	>365	>365	341	324	313	303	292
20	>365	>365	>365	>365	>365	>365	359	336	319
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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	490	354	236	80	6	0	0	0	0	55	235	418	1874
60	352	226	125	24	0	0	0	0	0	16	139	285	1167
57	279	158	77	9	0	0	0	0	0	7	94	218	842
55	236	121	51	4	0	0	0	0	0	3	69	180	664
50	148	51	14	0	0	0	0	0	0	0	27	101	341
32	7	0	0	0	0	0	0	0	0	0	0	1	8

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	552	570	805	974	1240	1382	1511	1501	1338	1092	792	618	12375
55	67	47	144	288	527	692	798	788	648	382	171	84	4636
57	48	28	107	232	465	632	736	726	588	324	135	60	4081
60	29	12	63	158	372	542	643	633	498	240	90	35	3315
65	0	1	18	64	223	392	488	478	348	124	36	13	2185
70	0	0	3	15	100	242	333	323	204	46	12	1	1279

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	323	397	599	763	983	1155	1272	1256	1105	854	568	404	323	720	1319	2082	3065	4220	5492	6748	7853	8707	9275	9679
45	207	269	447	613	828	1005	1117	1101	955	699	422	272	207	476	923	1536	2364	3369	4486	5587	6542	7241	7663	7935
50	117	159	305	463	673	855	962	946	805	544	293	168	117	276	581	1044	1717	2572	3534	4480	5285	5829	6122	6290
55	55	83	179	319	518	705	807	791	655	393	181	89	55	138	317	636	1154	1859	2666	3457	4112	4505	4686	4775
60	25	31	87	184	363	555	652	636	505	246	94	41	25	56	143	327	690	1245	1897	2533	3038	3284	3378	3419
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	190	237	366	489	669	821	897	892	777	566	361	247	190	427	793	1282	1951	2772	3669	4561	5338	5904	6265	6512

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
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">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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