

Climatography of the United States

No. 20

1971-2000

Station: ALICEVILLE, AL

COOP ID: 010178

Climate Division: AL 3

NWS Call Sign:

Elevation: 240 Feet

Lat: 33°08N

Lon: 88°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	53.5	31.9	42.7	79+	1972	14	51.3	1974	-2+	1985	21	32.3	1977	692	0	.0	.0	20.0	1.1	18.5	@
Feb	58.7	34.9	46.8	87	1996	24	53.9	1990	6	1996	4	37.0	1978	509	0	.0	.0	21.7	.6	13.8	.0
Mar	67.4	42.5	55.0	90	1967	13	61.0	1974	12	1980	3	49.3	1971	328	17	.0	.0	29.3	@	6.6	.0
Apr	74.8	48.3	61.6	93	1987	22	67.4	1981	23	1987	3	57.5	1993	142	38	.0	.1	29.9	.0	1.2	.0
May	82.1	57.8	70.0	98+	1977	31	74.2	1987	34+	1965	1	64.8	1976	32	185	.0	2.6	31.0	.0	.0	.0
Jun	88.9	65.9	77.4	104+	1982	9	81.1	1998	46	1966	1	74.3+	1992	0	372	.4	14.4	30.0	.0	.0	.0
Jul	91.8	70.0	80.9	108	1980	17	84.8	1980	56	1967	15	77.9	1994	0	492	1.5	22.1	31.0	.0	.0	.0
Aug	91.4	68.1	79.8	104	1980	22	83.7	1995	52	1999	16	75.4	1992	0	456	.8	21.7	31.0	.0	.0	.0
Sep	86.4	62.2	74.3	103	1980	17	79.7	1980	38	1967	30	69.7	1974	7	286	.3	10.5	30.0	.0	.0	.0
Oct	76.4	49.6	63.0	95+	1986	5	69.5	1971	25+	1962	26	58.3+	1987	135	72	.0	.8	30.9	.0	.9	.0
Nov	65.5	41.0	53.3	88	1961	3	60.3	1985	16+	1976	30	45.6	1976	364	12	.0	.0	28.4	.0	8.1	.0
Dec	56.7	34.1	45.4	83	1978	4	56.2	1971	-2	1962	13	37.3	2000	609	1	.0	.0	23.6	.5	16.4	.0
Ann	74.5	50.5	62.5	108	Jul 1980	17	84.8	Jul 1980	-2+	Jan 1985	21	32.3	Jan 1977	2818	1931	3.0	72.2	336.8	2.2	65.5	@

+ 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: 1934-2001

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

002-A

Climatology 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: ALICEVILLE, AL

COOP ID: 010178

Climate Division: AL 3

NWS Call Sign:

Elevation: 240 Feet

Lat: 33°08N

Lon: 88°08W

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	5.76	5.53	6.50	1950	7	11.18	1999	1.02	1986	10.7	7.9	4.0	1.9	1.96	2.51	3.31	3.98	4.62	5.29	6.01	6.86	7.95	9.63	11.17
Feb	5.18	4.67	4.80	1961	22	14.05	1971	1.22	1978	8.8	6.3	3.4	2.1	1.45	1.95	2.69	3.34	3.97	4.63	5.36	6.23	7.35	9.11	10.75
Mar	6.26	5.53	6.24	1976	16	20.60	1976	2.01	1992	9.5	7.1	4.2	2.3	1.89	2.48	3.37	4.14	4.88	5.66	6.51	7.51	8.81	10.83	12.70
Apr	5.97	5.21	8.57	1979	13	15.78	1979	.88	1987	7.7	6.2	3.6	1.9	1.47	2.03	2.90	3.68	4.44	5.25	6.15	7.23	8.63	10.85	12.94
May	4.37	3.59	3.92	1983	19	12.58	1991	.80	1977	8.7	6.3	3.1	1.2	.98	1.38	2.02	2.60	3.18	3.79	4.48	5.30	6.39	8.11	9.74
Jun	4.03	4.13	3.91	1962	20	8.42	1999	.10	1988	9.1	6.2	2.7	1.2	.68	1.03	1.61	2.17	2.74	3.35	4.06	4.92	6.06	7.92	9.70
Jul	4.43	4.36	3.65	1997	22	9.35	1982	1.18	1995	10.6	7.0	2.4	1.0	1.48	1.90	2.52	3.04	3.54	4.05	4.62	5.28	6.12	7.44	8.65
Aug	3.08	3.28	4.60	1952	7	8.54	1992	.22	1980	7.5	5.2	2.1	.9	.71	1.00	1.45	1.85	2.25	2.68	3.16	3.73	4.49	5.68	6.80
Sep	3.97	3.46	5.90	1973	30	9.30	1974	.04	1984	7.7	5.3	2.4	1.1	.40	.69	1.24	1.79	2.39	3.06	3.85	4.84	6.20	8.44	10.64
Oct	3.44	3.24	5.97	1989	1	6.68	1986	.47	1987	5.8	4.3	2.2	1.1	.75	1.07	1.57	2.03	2.49	2.98	3.52	4.18	5.05	6.43	7.73
Nov	4.82	4.49	5.80	1965	9	8.66	1992	1.61	1975	9.1	6.6	3.6	1.8	1.72	2.17	2.83	3.38	3.91	4.45	5.04	5.72	6.60	7.95	9.19
Dec	4.88	4.43	5.15	1973	26	11.26	1973	1.51	1984	8.9	6.5	3.6	1.7	1.75	2.21	2.88	3.43	3.97	4.51	5.10	5.79	6.68	8.04	9.28
Ann	56.19	54.20	8.57	Apr 1979	13	20.60	Mar 1976	.04	Sep 1984	104.1	74.9	37.3	18.2	40.13	43.25	47.23	50.26	52.94	55.54	58.22	61.18	64.77	69.97	74.46

+ 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: 1934-2001

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

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Station: ALICEVILLE, AL

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Climate Division: AL 3

NWS Call Sign:

Elevation: 240 Feet

Lat: 33°08N

Lon: 88°08W

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	.5	.0	0	0	5.0	1992	19	5.0	1992	0	0	0	0	0	.2	.1	.1	.1	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1989	23	#+	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1983	24	#+	1983	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	#	1996	19	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.5	.0	N/A	N/A	5.0	Jan 1992	19	5.0	Jan 1992	#	Dec 1996	19	#	Dec 1996	.2	.1	.1	.1	.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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Climate Division: AL 3

NWS Call Sign:

Elevation: 240 Feet

Lat: 33°08N

Lon: 88°08W

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	4/24	4/20	4/16	4/13	4/10	4/08	4/05	4/01	3/27
32	4/17	4/12	4/08	4/04	4/01	3/29	3/25	3/21	3/15
28	3/31	3/24	3/19	3/15	3/11	3/06	3/02	2/25	2/18
24	3/19	3/10	3/04	2/27	2/22	2/17	2/12	2/06	1/28
20	3/04	2/24	2/18	2/13	2/09	2/04	1/30	1/24	1/14
16	2/28	2/19	2/12	2/06	1/31	1/25	1/17	1/02	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	10/05	10/10	10/14	10/17	10/19	10/22	10/25	10/29	11/03
32	10/20	10/25	10/29	11/01	11/04	11/06	11/09	11/13	11/18
28	10/30	11/05	11/10	11/14	11/18	11/22	11/26	11/30	12/07
24	11/10	11/17	11/23	11/28	12/02	12/06	12/11	12/16	12/24
20	11/25	12/04	12/11	12/16	12/22	12/27	1/03	1/10	1/21
16	12/07	12/19	12/28	1/04	1/12	1/20	1/31	2/19	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	208	202	198	195	191	188	184	180	174
32	235	229	224	220	216	212	208	203	197
28	277	268	262	257	252	247	241	235	226
24	314	303	295	289	282	276	269	261	250
20	>365	340	327	318	311	305	298	290	279
16	>365	>365	>365	>365	348	335	325	316	305

* 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	692	509	328	142	32	0	0	0	7	135	364	609	2818
60	549	376	206	61	7	0	0	0	1	62	238	465	1965
57	464	299	148	30	2	0	0	0	0	34	176	382	1535
55	410	251	115	17	0	0	0	0	0	21	141	330	1285
50	289	150	52	3	0	0	0	0	0	5	71	219	789
32	37	4	0	0	0	0	0	0	0	0	0	18	59

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	368	419	711	886	1177	1361	1515	1479	1269	960	638	433	11216
55	28	22	114	214	464	671	802	766	579	269	88	33	4050
57	20	14	85	166	404	611	740	704	519	220	64	23	3570
60	12	7	49	107	316	521	647	611	430	154	36	13	2903
65	0	0	17	38	185	372	492	456	286	72	12	1	1931
70	0	0	4	9	89	227	337	303	161	25	1	0	1156

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	170	246	461	646	928	1129	1266	1239	1031	710	402	223	170	416	877	1523	2451	3580	4846	6085	7116	7826	8228	8451
45	93	151	320	497	773	979	1111	1084	881	556	273	132	93	244	564	1061	1834	2813	3924	5008	5889	6445	6718	6850
50	44	84	199	355	618	829	956	929	731	405	167	71	44	128	327	682	1300	2129	3085	4014	4745	5150	5317	5388
55	19	36	110	226	463	679	801	774	581	266	89	35	19	55	165	391	854	1533	2334	3108	3689	3955	4044	4079
60	4	11	46	123	316	529	646	619	432	153	39	11	4	15	61	184	500	1029	1675	2294	2726	2879	2918	2929
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	111	167	299	420	618	766	862	837	693	474	263	149	111	278	577	997	1615	2381	3243	4080	4773	5247	5510	5659

(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/normal/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