

Climatology of the United States

No. 20

1971-2000

Station: FAYETTE, AL

COOP ID: 012883

Climate Division: AL 3

NWS Call Sign:

Elevation: 365 Feet Lat: 33°41N Lon: 87°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	52.5	30.5	41.5	84	1949	11	50.2	1974	-5	1966	30	30.8	1977	728	0	.0	.0	19.3	1.4	19.6	.2
Feb	57.7	33.2	45.5	85	1996	24	52.5	1990	0	1951	2	36.1	1978	548	0	.0	.0	20.6	.7	15.1	.0
Mar	66.7	40.3	53.5	89+	1995	24	59.1	1973	8	1943	4	47.7	1971	364	9	.0	.0	28.9	.1	8.3	.0
Apr	75.1	46.6	60.9	92	1943	30	66.3	1999	25	1942	1	56.4	1983	165	39	.0	.3	29.8	.0	2.4	.0
May	81.8	55.3	68.6	97+	1982	14	73.2	1987	32+	1971	4	61.1	1976	52	162	.0	2.9	31.0	.0	@	.0
Jun	88.7	63.9	76.3	105+	1954	29	80.2	1998	41	1956	3	72.3	1974	1	340	.2	14.0	30.0	.0	.0	.0
Jul	92.1	68.6	80.4	110	1930	29	83.9	1980	49+	1970	6	76.9	1971	0	477	1.6	21.8	31.0	.0	.0	.0
Aug	91.5	67.2	79.4	106+	2000	30	82.9	1980	49	1956	23	75.3	1992	0	444	1.1	20.1	31.0	.0	.0	.0
Sep	86.0	60.7	73.4	106+	1951	2	77.7	1978	33	1967	30	69.3	1974	8	257	.2	9.9	30.0	.0	.0	.0
Oct	76.2	47.2	61.7	97	1954	7	67.7	1984	21	1952	30	55.2	1987	153	51	.0	.6	30.9	.0	2.2	.0
Nov	65.3	39.2	52.3	87+	2000	1	60.5	1978	6	1950	25	44.4	1976	391	8	.0	.0	27.8	.0	10.7	.0
Dec	55.8	33.0	44.4	80+	1998	6	53.7	1984	-1+	1989	24	35.4	1989	639	0	.0	.0	22.7	.5	17.2	.2
Ann	74.1	48.8	61.5	110	Jul 1930	29	83.9	Jul 1980	-5	Jan 1966	30	30.8	Jan 1977	3049	1787	3.1	69.6	333.0	2.7	75.5	.4

+ 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: 1930-2001

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

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**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: FAYETTE, AL

COOP ID: 012883

Climate Division: AL 3

NWS Call Sign:

Elevation: 365 Feet Lat: 33°41N

Lon: 87°49W

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	6.12	5.91	6.14	1950	6	11.24	1974	1.30	1981	12.1	9.1	4.4	1.7	1.96	2.54	3.40	4.14	4.84	5.57	6.38	7.32	8.52	10.41	12.14	
Feb	5.10	4.76	3.75	1994	11	10.44	1990	.77	2000	8.9	6.7	3.7	1.6	1.53	2.02	2.74	3.37	3.97	4.61	5.30	6.12	7.18	8.83	10.36	
Mar	7.00	6.37	8.00	1970	20	15.73	1980	2.70	1982	10.9	8.0	4.5	2.4	2.55	3.21	4.16	4.95	5.70	6.48	7.32	8.29	9.54	11.46	13.22	
Apr	5.61	4.49	8.01	1979	13	15.14	1991	1.40	1976	8.2	6.4	3.3	1.8	1.33	1.86	2.68	3.41	4.14	4.91	5.77	6.80	8.14	10.28	12.29	
May	5.14	4.80	3.70	1974	12	13.32	1991	.44	1982	9.9	7.3	3.3	1.5	.97	1.43	2.19	2.88	3.59	4.35	5.22	6.26	7.64	9.87	11.98	
Jun	4.24	4.30	2.65	1998	6	9.12	1989	1.04	1979	9.7	7.2	3.4	1.1	1.44	1.84	2.43	2.92	3.40	3.89	4.43	5.06	5.86	7.11	8.25	
Jul	4.45	3.51	4.28	1944	31	10.65	1975	.80	1978	10.0	6.8	2.9	1.2	.83	1.23	1.89	2.49	3.10	3.76	4.52	5.42	6.63	8.57	10.41	
Aug	3.61	3.14	3.10	1969	19	7.67	1982	.50	1999	8.9	5.7	2.0	.7	1.00	1.34	1.86	2.31	2.76	3.22	3.74	4.35	5.14	6.38	7.54	
Sep	3.89	3.19	4.23	1977	7	13.07	1979	.44	1984	8.1	5.1	2.4	1.1	.64	.98	1.54	2.08	2.63	3.23	3.91	4.75	5.87	7.68	9.41	
Oct	3.48	3.09	4.47	1956	21	10.48	1977	.00	1978	6.4	4.9	2.5	1.2	.47	.91	1.50	1.99	2.49	3.00	3.59	4.28	5.19	6.64	8.01	
Nov	4.72	4.65	4.60	1948	28	9.07	1986	1.31	1975	9.5	7.0	3.6	1.6	1.69	2.13	2.78	3.32	3.83	4.36	4.93	5.60	6.46	7.77	8.98	
Dec	5.36	4.51	7.36	1990	23	12.29	1990	1.34	1980	10.7	8.3	3.8	1.5	1.71	2.22	2.97	3.62	4.24	4.88	5.58	6.40	7.47	9.12	10.64	
Ann	58.72	56.76	8.01	Apr 1979	13	15.73	Mar 1980	.00	Oct 1978	113.3	82.5	39.8	17.4	40.90	44.32	48.72	52.07	55.05	57.94	60.92	64.23	68.25	74.10	79.17	

+ 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: 1930-2001

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

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Station: FAYETTE, AL

COOP ID: 012883

Climate Division: AL 3

NWS Call Sign:

Elevation: 365 Feet

Lat: 33°41N

Lon: 87°49W

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	.3	.0	#	0	2.0	1978	20	2.0	1978	4	1992	19	#	1992	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Feb	#	.0	0	0	#	1980	10	#	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	-9.9	-9.9	-9.9	-9.9	-9.9	.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	-9.9	-9.9	-9.9	-9.9	-9.9	.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	1	1974	1	#	1974	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	2.0	Jan 1978	20	2.0	Jan 1978	4	Jan 1992	19	#+	Jan 1992	-9.9	-9.9	-9.9	-9.9	-9.9	.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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No. 20 1971-2000

Station: FAYETTE, AL

COOP ID: 012883

Climate Division: AL 3

NWS Call Sign:

Elevation: 365 Feet

Lat: 33° 41N

Lon: 87° 49W

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	4/30	4/26	4/22	4/20	4/17	4/15	4/12	4/09	4/04
32	4/23	4/17	4/13	4/09	4/06	4/02	3/30	3/25	3/19
28	4/07	3/31	3/26	3/21	3/17	3/13	3/09	3/03	2/24
24	3/17	3/10	3/05	2/28	2/24	2/20	2/15	2/10	2/03
20	3/11	3/03	2/25	2/20	2/15	2/10	2/05	1/30	1/22
16	3/03	2/22	2/15	2/09	2/04	1/29	1/21	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	10/01	10/06	10/09	10/12	10/15	10/18	10/21	10/25	10/30
32	10/09	10/15	10/20	10/23	10/27	10/30	11/03	11/07	11/13
28	10/30	11/04	11/08	11/11	11/14	11/17	11/20	11/24	11/29
24	11/06	11/13	11/18	11/22	11/26	12/01	12/05	12/10	12/17
20	11/13	11/24	12/01	12/08	12/14	12/20	12/27	1/03	1/14
16	12/05	12/17	12/26	1/03	1/10	1/19	1/28	2/12	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	199	193	188	184	180	177	173	168	161
32	226	218	212	208	203	199	194	188	181
28	268	259	252	247	241	236	230	224	214
24	306	295	287	281	275	268	262	254	244
20	333	317	309	303	297	291	286	279	269
16	>365	>365	>365	>365	339	327	316	306	294

* 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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Climate Division: AL 3 NWS Call Sign: Elevation: 365 Feet Lat: 33°41N Lon: 87°49W

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	728	548	364	165	52	1	0	0	8	153	391	639	3049
60	584	409	232	78	16	0	0	0	1	71	260	495	2146
57	498	331	167	43	7	0	0	0	0	40	194	410	1690
55	443	280	130	26	3	0	0	0	0	25	157	357	1421
50	317	169	59	6	0	0	0	0	0	6	81	240	878
32	46	5	0	0	0	0	0	0	0	0	0	22	73

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	341	381	667	864	1133	1330	1500	1467	1239	921	607	406	10856
55	25	12	85	200	424	640	787	754	549	233	74	28	3811
57	18	7	59	157	365	580	725	692	489	186	51	19	3348
60	11	1	32	103	281	490	632	599	400	124	27	11	2711
65	0	0	9	39	162	340	477	444	257	51	8	0	1787
70	0	0	1	10	77	197	322	291	136	14	0	0	1048

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	153	225	434	626	895	1084	1242	1213	994	670	374	200	153	378	812	1438	2333	3417	4659	5872	6866	7536	7910	8110
45	84	131	295	478	740	934	1087	1058	844	515	250	114	84	215	510	988	1728	2662	3749	4807	5651	6166	6416	6530
50	42	64	182	338	585	784	932	903	694	366	148	59	42	106	288	626	1211	1995	2927	3830	4524	4890	5038	5097
55	16	29	96	212	431	634	777	748	544	233	78	27	16	45	141	353	784	1418	2195	2943	3487	3720	3798	3825
60	0	5	39	109	281	484	622	593	399	125	30	7	0	5	44	153	434	918	1540	2133	2532	2657	2687	2694
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	107	159	291	418	589	730	834	813	663	449	252	137	107	266	557	975	1564	2294	3128	3941	4604	5053	5305	5442

(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