

Climatography of the United States

No. 20

1971-2000

Station: FAIRHOPE 2 NE, AL

COOP ID: 012813

Climate Division: AL 8

NWS Call Sign:

Elevation: 23 Feet

Lat: 30° 33N

Lon: 87° 53W

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	60.4	39.9	50.2	82	1952	2	62.6	1974	5+	1985	22	41.2	1977	475	0	.0	.0	25.8	.1	8.9	.0
Feb	63.8	42.4	53.1	87	1982	19	58.5	1990	10	1951	3	43.9	1978	339	5	.0	.0	25.7	.1	5.0	.0
Mar	70.2	49.3	59.8	85+	1974	10	65.9	1997	21+	1980	3	55.0	1983	192	29	.0	.0	30.5	.0	.9	.0
Apr	76.5	55.3	65.9	91+	1987	23	71.1	1999	34	1973	11	61.7	1983	59	86	.0	.1	30.0	.0	.0	.0
May	83.3	63.2	73.3	98	1953	27	77.5	2000	43	1960	13	69.4	1976	3	259	.0	1.9	31.0	.0	.0	.0
Jun	88.4	70.0	79.2	100+	1954	11	82.8	1998	52	1984	1	76.7	1983	0	426	.0	12.6	30.0	.0	.0	.0
Jul	90.2	72.7	81.5	101	1980	16	84.5	2000	59	1967	16	79.1	1975	0	510	.2	19.9	31.0	.0	.0	.0
Aug	90.1	72.1	81.1	102	2000	30	84.0	1999	60+	1992	30	78.9	1992	0	499	.1	20.1	31.0	.0	.0	.0
Sep	86.8	67.8	77.3	100	1954	10	80.9	1980	41	1967	30	73.7	1975	0	369	.0	10.2	30.0	.0	.0	.0
Oct	79.1	56.7	67.9	93+	1954	5	72.9	1984	33+	1989	21	62.2	1987	52	142	.0	.7	31.0	.0	.0	.0
Nov	70.2	48.7	59.5	91	1971	2	66.5	1985	21	1950	25	51.0	1976	210	44	.0	@	29.6	.0	1.4	.0
Dec	62.7	42.2	52.5	84	1965	30	61.1	1971	8	1962	13	43.5	1989	405	15	.0	.0	27.6	.1	6.1	.0
Ann	76.8	56.7	66.8	102	Aug 2000	30	84.5	Jul 2000	5+	Jan 1985	22	41.2	Jan 1977	1735	2384	.3	65.5	353.2	.3	22.3	.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: 1948-2001

(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: FAIRHOPE 2 NE, AL

COOP ID: 012813

Climate Division: AL 8

NWS Call Sign:

Elevation: 23 Feet

Lat: 30°33N

Lon: 87°53W

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	6.11	5.21	9.58	1978	25	16.33	1998	.87	1989	10.6	7.3	3.8	2.0	1.37	1.93	2.83	3.63	4.44	5.30	6.26	7.41	8.93	11.35	13.62
Feb	5.47	6.07	8.61	1981	11	11.61	1983	.82	1999	9.2	6.0	3.4	1.7	1.12	1.62	2.42	3.15	3.89	4.68	5.58	6.65	8.07	10.34	12.50
Mar	6.71	6.60	6.20	1990	16	11.60	1980	2.59	1981	9.1	6.6	3.9	2.3	3.14	3.73	4.54	5.19	5.79	6.40	7.04	7.78	8.71	10.11	11.37
Apr	4.53	3.26	8.31	1996	15	13.53	1980	.11	1999	6.8	4.7	2.5	1.4	.41	.72	1.33	1.96	2.65	3.43	4.35	5.52	7.11	9.78	12.40
May	5.60	5.15	6.54	1981	20	13.75	1991	.31	1988	8.0	5.8	2.8	1.8	.58	.99	1.76	2.54	3.38	4.33	5.45	6.84	8.74	11.89	14.98
Jun	5.94	5.08	7.80	1989	9	18.52	1989	.71	1977	10.7	7.7	3.5	1.9	1.46	2.01	2.88	3.65	4.41	5.22	6.12	7.19	8.59	10.80	12.88
Jul	8.00	6.72	14.52	1997	20	28.58	1997	.82	1983	13.5	9.7	4.8	2.5	1.99	2.74	3.91	4.94	5.96	7.04	8.24	9.67	11.54	14.50	17.27
Aug	6.22	6.06	5.74	1984	2	14.23	1984	1.25	1997	13.2	9.2	3.9	1.9	1.73	2.32	3.21	4.00	4.76	5.56	6.45	7.49	8.85	10.99	12.98
Sep	5.97	4.74	9.18	1998	28	24.11	1998	.57	1984	10.7	7.2	3.3	1.7	.60	1.04	1.85	2.68	3.58	4.60	5.79	7.29	9.33	12.72	16.03
Oct	3.57	2.83	7.37	1995	5	13.08	1985	.00+	1978	5.7	4.1	2.1	1.0	.00	.32	.92	1.49	2.08	2.74	3.50	4.44	5.72	7.85	9.92
Nov	5.19	4.71	4.88	1995	2	12.03	1997	.81	1981	8.4	6.2	3.2	1.6	1.19	1.67	2.43	3.11	3.79	4.51	5.33	6.30	7.57	9.59	11.50
Dec	4.40	4.75	9.80	1953	6	8.04	1982	1.67	1980	9.0	6.1	2.8	1.4	1.81	2.21	2.78	3.25	3.69	4.13	4.61	5.17	5.87	6.94	7.91
Ann	67.71	67.52	14.52	Jul 1997	20	28.58	Jul 1997	.00+	Oct 1978	114.9	80.6	40.0	21.2	47.02	50.99	56.09	59.98	63.44	66.80	70.27	74.12	78.80	85.59	91.49

+ 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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Climate Division: AL 8

NWS Call Sign:

Elevation: 23 Feet

Lat: 30°33N

Lon: 87°53W

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	#	1995	4	#+	1995	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1984	29	#+	1984	0	0	0	0	0	.0	.0	.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	#	.0	N/A	N/A	#+	Jan 1995	4	#+	Jan 1995	0	0	0	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

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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	3/31	3/25	3/20	3/16	3/13	3/09	3/05	3/01	2/22
32	3/13	3/06	3/02	2/26	2/22	2/18	2/14	2/10	2/03
28	3/06	2/26	2/20	2/15	2/10	2/05	1/31	1/26	1/17
24	2/23	2/13	2/06	1/30	1/24	1/16	1/06	0/00	0/00
20	2/01	1/21	1/12	1/01	0/00	0/00	0/00	0/00	0/00
16	1/14	12/26	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	11/01	11/07	11/11	11/14	11/18	11/21	11/25	11/29	12/05
32	11/10	11/17	11/22	11/27	12/01	12/05	12/09	12/15	12/22
28	11/19	11/30	12/08	12/15	12/21	12/27	1/03	1/11	1/22
24	12/06	12/17	12/26	1/02	1/10	1/18	1/30	0/00	0/00
20	12/22	1/01	1/09	1/19	0/00	0/00	0/00	0/00	0/00
16	1/06	1/27	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	274	266	259	254	249	244	239	233	225
32	306	298	292	286	281	276	271	265	256
28	350	332	323	315	309	302	295	288	277
24	>365	>365	>365	>365	>365	335	323	313	302
20	>365	>365	>365	>365	>365	>365	>365	>365	335
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	475	339	192	59	3	0	0	0	0	52	210	405	1735
60	351	213	95	14	0	0	0	0	0	16	119	275	1083
57	283	151	54	5	0	0	0	0	0	7	77	210	787
55	243	117	34	2	0	0	0	0	0	4	55	173	628
50	159	52	8	0	0	0	0	0	0	0	20	96	335
32	12	0	0	0	0	0	0	0	0	0	0	2	14

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	574	590	860	1017	1279	1416	1533	1522	1359	1113	824	635	12722
55	93	63	181	329	566	726	820	809	669	404	189	93	4942
57	70	41	139	272	504	666	758	747	609	345	151	68	4370
60	45	19	87	192	411	576	665	654	519	261	103	40	3572
65	0	5	29	86	259	426	510	499	369	142	44	15	2384
70	0	0	6	24	126	276	355	344	223	58	14	3	1429

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	360	413	634	790	1046	1187	1296	1285	1131	878	598	418	360	773	1407	2197	3243	4430	5726	7011	8142	9020	9618	10036
45	237	288	484	640	891	1037	1141	1130	981	723	450	291	237	525	1009	1649	2540	3577	4718	5848	6829	7552	8002	8293
50	144	180	338	493	736	887	986	975	831	568	318	182	144	324	662	1155	1891	2778	3764	4739	5570	6138	6456	6638
55	77	94	210	344	581	737	831	820	681	415	202	104	77	171	381	725	1306	2043	2874	3694	4375	4790	4992	5096
60	32	40	106	207	426	587	676	665	531	274	112	53	32	72	178	385	811	1398	2074	2739	3270	3544	3656	3709
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	214	248	387	505	724	842	911	901	796	583	374	252	214	462	849	1354	2078	2920	3831	4732	5528	6111	6485	6737

(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