

Climatography of the United States

No. 20

1971-2000

Station: JACKSON, AL

COOP ID: 014193

Climate Division: AL 7

NWS Call Sign:

Elevation: 220 Feet Lat: 31° 32N Lon: 87° 56W

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	59.4	36.3	47.9	80	1989	6	58.4	1974	3	1985	21	38.4	1977	542	0	.0	.0	24.9	.3	11.9	.0
Feb	63.7	38.4	51.1	83	1994	10	58.2	1990	11+	1996	5	42.1	1978	392	2	.0	.0	24.9	.2	8.8	.0
Mar	71.1	44.8	58.0	87	1989	28	63.1	1997	19+	1996	10	52.9	1983	241	22	.0	.0	30.2	.0	2.3	.0
Apr	77.7	51.0	64.4	95	1987	23	70.9	1991	29	1987	1	59.8	1983	94	74	.0	.4	30.0	.0	.2	.0
May	84.6	59.4	72.0	96+	2000	27	76.7	1991	42	1997	5	67.6	1976	9	227	.0	4.6	31.0	.0	.0	.0
Jun	90.4	66.5	78.5	102	1988	28	81.3	1998	48	1984	1	75.3	1974	0	404	.3	18.3	30.0	.0	.0	.0
Jul	92.3	70.2	81.3	104+	2000	15	83.9	1980	62+	1987	16	79.5	1972	0	505	.8	25.1	31.0	.0	.0	.0
Aug	92.1	69.3	80.7	104	2000	30	83.7	1993	57	1997	24	78.6	1973	0	486	.6	25.3	31.0	.0	.0	.0
Sep	87.8	64.7	76.3	99+	2000	5	80.6	1980	40	1999	24	72.6	1975	2	339	.2	14.1	30.0	.0	.0	.0
Oct	79.1	52.4	65.8	93+	1990	10	71.5	1984	28	2001	28	59.9	1987	83	106	.0	1.6	31.0	.0	.2	.0
Nov	69.8	43.9	56.9	87+	1984	2	64.1	1985	21+	2000	24	48.6	1976	272	27	.0	.0	29.3	.0	4.8	.0
Dec	61.9	38.7	50.3	83	1998	8	59.3	1971	6	1989	23	41.7	2000	467	12	.0	.0	27.0	.1	10.2	.0
Ann	77.5	53.0	65.3	104+	Aug 2000	30	83.9	Jul 1980	3	Jan 1985	21	38.4	Jan 1977	2102	2204	1.9	89.4	350.3	.6	38.4	.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: 1961-2001

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

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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: JACKSON, AL

COOP ID: 014193

Climate Division: AL 7

NWS Call Sign:

Elevation: 220 Feet Lat: 31°32N

Lon: 87°56W

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	5.60	3.93	1999	30	10.77	1999	1.09	1981	10.8	8.1	4.4	2.0	2.06	2.64	3.49	4.20	4.89	5.60	6.37	7.28	8.44	10.24	11.89
Feb	5.34	4.71	4.48	1975	5	10.71	1982	1.33	1989	8.7	6.2	3.3	1.8	1.63	2.14	2.90	3.55	4.18	4.83	5.55	6.40	7.49	9.19	10.77
Mar	6.60	7.09	6.38	1990	15	13.84	1980	2.11	1982	9.5	7.0	3.8	2.2	2.77	3.37	4.21	4.90	5.55	6.21	6.92	7.73	8.76	10.33	11.76
Apr	4.99	3.86	5.79	1974	14	12.26	1974	.80	1981	7.7	5.3	2.8	1.7	.93	1.38	2.11	2.79	3.47	4.22	5.06	6.08	7.43	9.61	11.68
May	5.30	4.62	8.00	1980	17	12.56	1980	.31	2000	9.1	6.0	3.1	1.8	.74	1.17	1.93	2.67	3.44	4.29	5.27	6.48	8.11	10.77	13.33
Jun	5.22	4.99	5.70	1980	26	11.27	1999	1.13	1988	10.4	7.8	3.6	1.5	1.81	2.30	3.02	3.63	4.20	4.80	5.45	6.20	7.17	8.67	10.05
Jul	6.07	5.97	4.00	1982	22	12.50	1982	.47	1983	12.6	9.4	4.7	1.9	1.64	2.22	3.09	3.86	4.61	5.40	6.28	7.32	8.67	10.78	12.76
Aug	4.77	4.19	5.00	1995	4	10.54	1975	.38	1989	10.6	7.3	3.0	1.2	1.05	1.49	2.19	2.82	3.45	4.13	4.88	5.79	6.99	8.89	10.69
Sep	4.49	3.53	8.76	1998	28	14.82	1998	.31	1984	7.6	4.9	2.2	1.1	.67	1.05	1.70	2.32	2.96	3.67	4.48	5.48	6.82	9.00	11.09
Oct	2.95	2.59	6.87	1967	31	11.29	1975	.00+	1987	5.5	3.8	1.9	1.1	.00	.29	.80	1.27	1.75	2.29	2.91	3.67	4.71	6.42	8.08
Nov	5.24	5.18	3.55	1987	17	12.26	1992	.91	1981	9.2	6.5	3.5	1.8	1.54	2.04	2.79	3.44	4.06	4.72	5.44	6.29	7.39	9.11	10.70
Dec	5.20	4.09	10.18	1961	10	11.51	1972	1.73	1998	9.8	6.5	3.2	1.7	2.01	2.49	3.18	3.75	4.29	4.85	5.44	6.14	7.02	8.37	9.61
Ann	62.28	62.79	10.18	Dec 1961	10	14.82	Sep 1998	.00+	Oct 1987	111.5	78.8	39.5	19.8	44.05	47.57	52.08	55.51	58.56	61.50	64.55	67.91	72.00	77.93	83.06

+ 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: 1961-2001

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

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Station: JACKSON, AL

COOP ID: 014193

Climate Division: AL 7

NWS Call Sign:

Elevation: 220 Feet

Lat: 31°32N

Lon: 87°56W

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	0	4.0	1977	19	6.0	1977	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1975	4	#	1975	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	.3	.0	N/A	N/A	4.0	Jan 1977	19	6.0	Jan 1977	0	0	0	0	0	.1	.1	.1	.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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NWS Call Sign:

Elevation: 220 Feet

Lat: 31°32N

Lon: 87°56W

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	4/03	3/30	3/27	3/24	3/20	3/14
32	3/31	3/24	3/19	3/14	3/10	3/06	3/02	2/24	2/17
28	3/15	3/07	3/02	2/25	2/21	2/17	2/12	2/07	1/30
24	3/05	2/24	2/19	2/14	2/09	2/04	1/30	1/24	1/16
20	2/23	2/14	2/07	1/31	1/25	1/17	1/06	0/00	0/00
16	2/06	1/24	1/13	12/30	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	10/19	10/24	10/28	10/31	11/03	11/06	11/09	11/13	11/18
32	10/30	11/04	11/08	11/12	11/15	11/18	11/21	11/25	11/30
28	11/09	11/18	11/25	12/01	12/07	12/12	12/18	12/25	1/04
24	11/24	12/06	12/14	12/22	12/29	1/04	1/12	1/20	2/01
20	12/13	12/22	12/29	1/05	1/12	1/19	1/31	0/00	0/00
16	12/22	1/04	1/16	1/31	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	241	233	227	222	217	212	207	201	193
32	278	268	261	254	249	243	237	229	219
28	319	307	299	292	286	279	273	265	255
24	>365	346	333	324	316	309	302	294	283
20	>365	>365	>365	>365	>365	343	330	320	307
16	>365	>365	>365	>365	>365	>365	>365	>365	335

* 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

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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	542	392	241	94	9	0	0	0	2	83	272	467	2102
60	403	264	133	34	1	0	0	0	0	31	166	331	1363
57	327	195	84	15	0	0	0	0	0	14	117	259	1011
55	281	156	58	8	0	0	0	0	0	8	89	218	818
50	188	80	18	1	0	0	0	0	0	1	37	133	458
32	14	0	0	0	0	0	0	0	0	0	0	5	19

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	507	533	804	970	1241	1394	1528	1509	1327	1047	745	572	12177
55	61	45	148	288	528	704	815	796	637	342	144	72	4580
57	44	28	113	235	466	644	753	734	577	286	112	52	4044
60	27	13	68	164	374	554	660	641	487	210	71	30	3299
65	0	2	22	74	227	404	505	486	339	106	27	12	2204
70	0	0	5	22	106	255	350	331	200	40	9	0	1318

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	280	346	590	743	1004	1181	1299	1284	1102	814	510	342	280	626	1216	1959	2963	4144	5443	6727	7829	8643	9153	9495
45	171	231	441	593	849	1031	1144	1129	952	659	369	219	171	402	843	1436	2285	3316	4460	5589	6541	7200	7569	7788
50	89	134	305	445	694	881	989	974	802	504	244	133	89	223	528	973	1667	2548	3537	4511	5313	5817	6061	6194
55	42	70	185	303	539	731	834	819	652	356	143	70	42	112	297	600	1139	1870	2704	3523	4175	4531	4674	4744
60	16	28	92	177	384	581	679	664	504	217	71	31	16	44	136	313	697	1278	1957	2621	3125	3342	3413	3444
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	178	225	372	483	680	811	894	872	751	536	331	216	178	403	775	1258	1938	2749	3643	4515	5266	5802	6133	6349

(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