

Climatography of the United States

No. 20

1971-2000

Station: ANDALUSIA 3 W, AL

COOP ID: 010252

Climate Division: AL 7

NWS Call Sign:

Elevation: 250 Feet

Lat: 31° 18N

Lon: 86° 31W

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	61.1	35.7	48.4	84	1949	12	60.3	1974	0	1985	21	38.8	1977	527	0	.0	.0	25.5	.2	15.9	@
Feb	65.1	37.8	51.5	87	1962	28	57.8	1990	10+	1996	5	42.6	1978	382	2	.0	.0	25.4	.2	12.0	.0
Mar	72.6	44.1	58.4	89+	1982	18	63.9	1997	16+	1993	14	53.2	1996	233	27	.0	.0	30.4	.0	6.2	.0
Apr	79.2	49.7	64.5	94+	1987	24	69.4	1991	27+	1987	6	60.0	1983	90	73	.0	.4	30.0	.0	1.2	.0
May	85.6	58.5	72.1	100	1953	29	75.8	1991	34	1971	4	68.7	1976	9	227	.0	5.2	31.0	.0	.0	.0
Jun	91.0	66.2	78.6	105	1954	29	82.6	1998	44+	1984	2	76.1	1997	0	409	.4	18.3	30.0	.0	.0	.0
Jul	92.8	69.5	81.2	105	1952	25	83.9	1986	54+	1974	1	78.4	1994	0	500	.7	22.8	31.0	.0	.0	.0
Aug	92.4	68.9	80.7	105	1954	14	82.9	1990	54	1968	30	78.5	1992	0	485	.3	21.4	31.0	.0	.0	.0
Sep	89.1	64.5	76.8	101	1954	7	81.7	1978	34	1967	30	73.7	1975	2	355	@	12.0	30.0	.0	.0	.0
Oct	81.1	51.4	66.3	99	1954	7	72.2+	1985	28+	1981	20	59.9	1987	87	125	.0	.9	31.0	.0	.9	.0
Nov	72.0	43.3	57.7	88+	2000	2	66.1	1985	16+	1970	25	51.1	1976	252	31	.0	.0	29.4	.0	7.3	.0
Dec	63.8	37.7	50.8	84	1982	2	59.9	1971	2	1983	27	43.3	1989	453	11	.0	.0	27.2	.1	13.3	.0
Ann	78.8	52.3	65.6	105+	Aug 1954	14	83.9	Jul 1986	0	Jan 1985	21	38.8	Jan 1977	2035	2245	1.4	81.0	351.9	.5	56.8	@

+ 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: ANDALUSIA 3 W, AL

COOP ID: 010252

Climate Division: AL 7

NWS Call Sign:

Elevation: 250 Feet

Lat: 31°18N

Lon: 86°31W

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	5.95	5.55	5.60	1978	25	11.46	1991	1.52	1989	10.7	8.0	4.3	1.9	2.67	3.20	3.93	4.53	5.08	5.64	6.24	6.93	7.79	9.10	10.28	
Feb	5.40	5.28	7.76	1981	10	11.57	1981	.77	1980	8.7	6.5	3.6	1.9	1.62	2.14	2.90	3.56	4.21	4.87	5.61	6.47	7.59	9.34	10.96	
Mar	7.20	6.41	12.34	1990	17	17.55	1990	2.21	1997	9.7	7.4	4.1	2.5	2.55	3.23	4.21	5.04	5.83	6.64	7.52	8.55	9.86	11.89	13.75	
Apr	4.53	4.06	12.28	1975	10	18.16	1975	.00	1987	7.3	5.4	2.8	1.4	.43	.96	1.71	2.37	3.04	3.77	4.60	5.60	6.94	9.10	11.16	
May	4.94	4.12	5.44	1953	6	12.41	1978	.50	1998	8.2	6.3	3.2	1.6	1.24	1.71	2.43	3.06	3.69	4.35	5.09	5.97	7.12	8.93	10.63	
Jun	5.20	4.74	8.58	1970	4	13.90	1989	1.27	1998	10.6	8.3	3.6	1.5	1.36	1.85	2.61	3.27	3.92	4.61	5.38	6.28	7.46	9.33	11.07	
Jul	6.49	6.33	5.25	1994	7	16.30	1994	2.83	2000	13.0	10.1	4.7	2.0	2.65	3.24	4.08	4.77	5.42	6.08	6.80	7.62	8.66	10.25	11.69	
Aug	4.87	4.63	4.53	1950	31	9.81	1991	1.39	1985	11.0	8.0	3.3	1.2	1.63	2.09	2.77	3.34	3.89	4.46	5.08	5.80	6.73	8.17	9.50	
Sep	4.76	3.77	17.88	1998	29	28.54	1998	.32	1984	8.3	5.8	3.0	1.3	.55	.92	1.58	2.24	2.95	3.74	4.66	5.81	7.36	9.93	12.43	
Oct	3.08	2.63	12.80	1995	4	16.70	1995	.00	1987	5.2	3.3	1.7	.7	.07	.26	.66	1.09	1.58	2.15	2.85	3.74	4.99	7.10	9.21	
Nov	4.75	4.17	3.54	1992	5	11.14	1992	1.36	1990	8.0	6.3	3.4	1.5	1.60	2.05	2.71	3.27	3.80	4.36	4.96	5.66	6.57	7.97	9.26	
Dec	4.72	4.31	5.44	1972	21	11.39	1972	1.06	1980	9.2	6.7	2.9	1.4	1.57	2.02	2.68	3.23	3.77	4.32	4.92	5.62	6.53	7.93	9.23	
Ann	61.89	60.73	17.88	Sep 1998	29	28.54	Sep 1998	.00+	Oct 1987	109.9	82.1	40.6	18.9	43.87	47.35	51.81	55.20	58.21	61.13	64.14	67.46	71.50	77.35	82.41	

+ 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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Station: ANDALUSIA 3 W, AL

COOP ID: 010252

Climate Division: AL 7

NWS Call Sign:

Elevation: 250 Feet

Lat: 31°18N

Lon: 86°31W

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	#	1977	25	#	1977	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.0	0	0	.0	0	1	1988	5	#	1988	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.3	.0	0	0	6.0	1993	13	6.0	1993	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	6.0	Mar 1993	13	6.0	Mar 1993	1	Feb 1988	5	#	Feb 1988	@	@	@	@	.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 7

NWS Call Sign:

Elevation: 250 Feet

Lat: 31° 18N

Lon: 86° 31W

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	4/28	4/22	4/19	4/15	4/12	4/09	4/06	4/02	3/28
32	4/18	4/12	4/08	4/04	4/01	3/29	3/25	3/21	3/16
28	3/28	3/21	3/17	3/12	3/08	3/05	2/28	2/23	2/17
24	3/11	3/04	2/27	2/23	2/19	2/15	2/10	2/05	1/29
20	3/06	2/26	2/19	2/14	2/09	2/03	1/29	1/22	1/11
16	2/16	2/06	1/28	1/20	1/09	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	10/02	10/09	10/13	10/17	10/21	10/25	10/29	11/02	11/09
32	10/18	10/25	10/29	11/02	11/06	11/10	11/14	11/19	11/26
28	10/31	11/07	11/12	11/16	11/20	11/24	11/28	12/03	12/10
24	11/15	11/25	12/01	12/07	12/12	12/18	12/23	12/30	1/08
20	11/27	12/10	12/19	12/27	1/03	1/10	1/18	1/28	2/12
16	12/21	1/03	1/14	1/25	2/07	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	215	207	201	196	191	186	181	175	167
32	245	236	229	224	218	213	207	201	192
28	285	275	268	261	256	250	244	236	226
24	323	312	305	299	294	289	283	276	267
20	>365	>365	342	330	320	312	304	294	282
16	>365	>365	>365	>365	>365	>365	>365	347	329

* 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	527	382	233	90	9	0	0	0	2	87	252	453	2035
60	390	254	129	31	1	0	0	0	0	35	151	317	1308
57	316	186	82	13	0	0	0	0	0	17	103	247	964
55	272	148	57	7	0	0	0	0	0	10	77	206	777
50	181	74	18	1	0	0	0	0	0	2	30	123	429
32	14	0	0	0	0	0	0	0	0	0	0	4	18

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	524	545	817	974	1241	1399	1523	1508	1343	1062	769	585	12290
55	68	49	161	290	528	709	810	795	653	359	156	74	4652
57	50	31	124	237	466	649	748	733	593	304	123	53	4111
60	31	15	78	164	374	559	655	640	503	228	80	30	3357
65	0	2	27	73	227	409	500	485	355	125	31	11	2245
70	0	0	7	21	107	260	345	330	215	54	10	0	1349

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	270	333	550	705	964	1125	1237	1222	1057	769	491	325	270	603	1153	1858	2822	3947	5184	6406	7463	8232	8723	9048
45	167	214	401	555	809	975	1082	1067	907	614	351	206	167	381	782	1337	2146	3121	4203	5270	6177	6791	7142	7348
50	93	125	272	406	654	825	927	912	757	462	230	119	93	218	490	896	1550	2375	3302	4214	4971	5433	5663	5782
55	42	63	161	270	500	675	772	757	607	315	136	63	42	105	266	536	1036	1711	2483	3240	3847	4162	4298	4361
60	17	28	76	155	348	525	617	602	457	189	66	28	17	45	121	276	624	1149	1766	2368	2825	3014	3080	3108
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	189	237	376	477	646	760	836	832	715	518	336	227	189	426	802	1279	1925	2685	3521	4353	5068	5586	5922	6149

(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