

# Climatology of the United States

No. 20

1971-2000

Station: VERNON 2 N, AL

COOP ID: 018517

Climate Division: AL 3

NWS Call Sign:

Elevation: 265 Feet Lat: 33°48N Lon: 88°07W

## 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	52.2	28.2	40.2	78+	1975	28	49.3	1974	-11	1966	30	30.0	1977	769	0	.0	.0	18.0	1.7	20.6	.2
Feb	57.3	31.2	44.3	85	1996	24	51.6	1990	1+	1996	5	34.5	1978	581	0	.0	.0	20.6	.9	15.8	.0
Mar	65.9	38.9	52.4	89	1976	5	58.9	1974	6	1980	3	47.0	1971	400	9	.0	.0	28.7	.1	9.5	.0
Apr	73.9	45.3	59.6	94	1976	19	65.6	1981	20	1987	4	53.9	1983	192	29	.0	.3	29.8	.0	3.7	.0
May	81.0	55.0	68.0	100	2000	25	72.8	1998	30	1976	4	63.7	1976	51	143	@	2.7	31.0	.0	.1	.0
Jun	87.7	63.4	75.6	102	1964	23	78.9	1998	38	1966	1	72.0	1974	1	316	.1	12.3	30.0	.0	.0	.0
Jul	91.1	67.5	79.3	105	1980	18	82.6	1980	49	1967	15	76.4	1994	0	443	1.1	20.9	31.0	.0	.0	.0
Aug	91.0	66.0	78.5	109	2000	30	83.8	2000	46	1986	29	74.7	1992	0	417	1.1	20.4	31.0	.0	.0	.0
Sep	85.5	59.4	72.5	104	2000	2	76.9	1972	33	1967	30	68.3	1981	17	240	.2	9.0	30.0	.0	.0	.0
Oct	75.9	46.2	61.1	95	1963	14	67.4	1984	21+	1987	22	53.5	1987	181	58	.0	.5	30.9	.0	3.3	.0
Nov	65.1	38.3	51.7	87	2000	1	58.5	1985	9	1976	30	43.7	1976	404	7	.0	.0	27.6	.0	10.7	.0
Dec	56.0	31.0	43.5	81+	1978	8	52.0	1984	-3	1989	24	34.3	1989	667	0	.0	.0	21.7	.7	18.1	.2
Ann	73.6	47.5	60.6	109	Aug 2000	30	83.8	Aug 2000	-11	Jan 1966	30	30.0	Jan 1977	3263	1662	2.5	66.1	330.3	3.4	81.8	.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](http://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

066-A

# 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: VERNON 2 N, AL**

**COOP ID: 018517**

**Climate Division: AL 3**

**NWS Call Sign:**

**Elevation: 265 Feet Lat: 33°48N**

**Lon: 88°07W**

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	6.25	5.35	6.95	1982	4	12.31	1982	1.26	1986	10.7	8.3	4.4	2.0	1.94	2.53	3.42	4.17	4.91	5.67	6.50	7.49	8.75	10.73	12.55
Feb	5.32	4.88	3.40	1950	13	10.75	1991	1.55	1996	8.8	6.7	3.7	2.0	1.72	2.22	2.97	3.60	4.22	4.85	5.54	6.35	7.40	9.02	10.52
Mar	6.70	6.26	6.33	1970	19	15.03	1973	1.75	1985	9.8	7.9	4.5	2.3	2.62	3.24	4.12	4.85	5.55	6.25	7.02	7.90	9.03	10.75	12.32
Apr	5.34	4.08	6.23	1995	21	16.55	1991	.44	1986	8.1	6.4	3.4	2.0	.77	1.21	1.98	2.72	3.50	4.35	5.33	6.53	8.14	10.78	13.32
May	5.52	4.96	6.70	1983	19	15.65	1991	1.02	1977	8.9	7.3	3.5	1.7	1.15	1.65	2.46	3.20	3.94	4.74	5.63	6.71	8.13	10.41	12.56
Jun	4.18	3.80	4.00	2001	7	9.58	1994	.00	1988	8.9	7.0	3.2	1.4	.84	1.42	2.12	2.69	3.23	3.79	4.40	5.12	6.04	7.49	8.84
Jul	5.03	4.64	3.75	1996	28	14.11	1996	.21	1993	9.2	7.2	3.5	1.5	.56	.94	1.64	2.35	3.10	3.94	4.92	6.14	7.81	10.56	13.23
Aug	3.04	2.92	4.32	1982	7	8.24	1982	.21	1990	6.6	4.8	2.1	.9	.49	.75	1.19	1.61	2.04	2.51	3.05	3.71	4.59	6.01	7.38
Sep	4.03	3.84	4.01	1980	26	10.43	1977	.21	1998	7.0	5.5	2.7	1.3	.50	.82	1.39	1.95	2.54	3.20	3.97	4.92	6.21	8.32	10.36
Oct	3.43	3.00	4.59	1975	17	9.45	1984	.48	1987	6.0	4.4	2.5	1.3	.57	.87	1.37	1.84	2.32	2.85	3.45	4.19	5.17	6.76	8.27
Nov	5.62	5.41	4.05	1984	28	10.21	1979	1.04	1971	8.8	7.2	4.1	2.0	1.95	2.48	3.25	3.90	4.53	5.17	5.87	6.68	7.72	9.34	10.82
Dec	5.61	4.51	4.75	1967	18	14.23	1983	1.22	1980	9.5	7.7	4.0	1.8	1.80	2.33	3.12	3.79	4.44	5.11	5.85	6.71	7.82	9.54	11.13
Ann	60.07	59.94	6.95	Jan 1982	4	16.55	Apr 1991	.00	Jun 1988	102.3	80.4	41.6	20.2	38.99	42.92	48.05	51.99	55.53	58.98	62.56	66.56	71.45	78.61	84.87

+ 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

Complete documentation available from:  
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Station: VERNON 2 N, AL

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Climate Division: AL 3

NWS Call Sign:

Elevation: 265 Feet

Lat: 33°48N

Lon: 88°07W

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	.6	.0	#	0	4.0	1978	20	4.0	1978	1	1988	6	#+	1996	.2	.2	.1	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1989	23	#+	1989	#	1996	16	#	1996	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.3	.0	0	0	4.0	1993	13	4.0	1993	0	0	0	0	0	.2	.1	.1	.0	.0	.0	.0	.0	.0
Apr	.1	.0	0	0	1.0	1987	3	1.0	1987	0	0	0	0	0	.1	.1	.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	#	1989	20	#	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	#	0	#	1995	14	#+	1995	#	1995	14	#	1995	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1993	25	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	1.0	.0	N/A	N/A	4.0+	Mar 1993	13	4.0+	Mar 1993	1	Jan 1988	6	#+	Feb 1996	.5	.4	.2	.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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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	5/08	5/02	4/28	4/25	4/21	4/18	4/15	4/11	4/05
32	4/27	4/22	4/19	4/16	4/14	4/11	4/08	4/05	4/01
28	4/15	4/10	4/06	4/03	3/31	3/28	3/25	3/21	3/16
24	3/30	3/24	3/20	3/16	3/12	3/09	3/05	2/28	2/22
20	3/16	3/08	3/03	2/27	2/23	2/18	2/14	2/09	2/01
16	3/10	3/01	2/22	2/16	2/11	2/05	1/31	1/24	1/14
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	10/05	10/08	10/10	10/12	10/14	10/16	10/19	10/22
32	10/05	10/11	10/15	10/18	10/21	10/24	10/28	10/31	11/06
28	10/17	10/23	10/27	10/30	11/03	11/06	11/09	11/14	11/19
24	11/02	11/08	11/12	11/16	11/19	11/23	11/26	11/30	12/06
20	11/11	11/18	11/23	11/28	12/02	12/06	12/11	12/16	12/23
16	11/24	12/04	12/11	12/17	12/23	12/29	1/04	1/11	1/21
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	193	186	181	177	173	169	165	160	153
32	208	202	197	193	190	186	182	177	171
28	238	230	225	220	216	211	207	201	193
24	274	266	261	256	251	247	242	236	228
20	310	300	293	287	282	276	270	263	253
16	>365	336	325	317	309	303	296	287	276

\* 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	769	581	400	192	51	1	0	0	17	181	404	667	3263
60	624	444	265	98	14	0	0	0	4	95	272	521	2337
57	537	366	197	57	6	0	0	0	1	58	204	435	1861
55	482	316	158	37	3	0	0	0	0	40	164	381	1581
50	353	204	81	10	0	0	0	0	0	12	86	260	1006
32	62	12	0	0	0	0	0	0	0	0	0	26	100

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	317	355	632	827	1115	1305	1466	1440	1213	900	593	383	10546
55	23	15	77	174	405	615	753	727	524	227	67	24	3631
57	17	10	54	134	346	555	691	665	464	183	46	16	3181
60	10	3	29	85	262	465	598	572	377	126	24	9	2560
65	0	0	9	29	143	316	443	417	240	58	7	0	1662
70	0	0	0	7	61	175	288	267	129	20	0	0	947

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	142	216	419	607	889	1076	1230	1202	978	655	362	189	142	358	777	1384	2273	3349	4579	5781	6759	7414	7776	7965
45	79	129	288	459	734	926	1075	1047	828	502	244	112	79	208	496	955	1689	2615	3690	4737	5565	6067	6311	6423
50	41	66	174	322	579	776	920	892	678	354	145	59	41	107	281	603	1182	1958	2878	3770	4448	4802	4947	5006
55	18	30	95	203	424	626	765	737	528	224	73	30	18	48	143	346	770	1396	2161	2898	3426	3650	3723	3753
60	0	6	41	109	280	476	610	582	386	124	32	5	0	6	47	156	436	912	1522	2104	2490	2614	2646	2651
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	99	159	282	407	587	731	834	807	656	447	247	133	99	258	540	947	1534	2265	3099	3906	4562	5009	5256	5389

(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](http://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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)