

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: CAMP HILL 2 NW, AL

1971-2000

COOP ID: 011324

Climate Division: AL 5

NWS Call Sign:

Elevation: 680 Feet

Lat: 32°49N

Lon: 85°39W

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	54.0	28.8	41.4	79	1950	26	53.1	1974	-1	1963	24	29.8	1977	733	0	.0	.0	22.0	.6	18.3	.1
Feb	58.9	30.4	44.7	83	1996	24	51.3	1990	1	1996	6	35.8	1978	569	0	.0	.0	22.7	.4	15.2	.0
Mar	67.2	37.6	52.4	87+	1995	24	59.0	1997	12+	1993	15	45.5	1971	398	7	.0	.0	29.9	@	8.0	.0
Apr	74.4	44.1	59.3	89+	2001	11	65.1	1991	23+	2000	9	54.7	1983	192	20	.0	.1	29.9	.0	2.2	.0
May	81.7	53.5	67.6	98	1996	25	72.6	1991	32	1971	4	62.9	1971	54	133	.0	2.9	31.0	.0	@	.0
Jun	87.8	61.6	74.7	102	1954	29	78.1	1998	41	1972	1	71.3	1974	1	293	.1	12.8	30.0	.0	.0	.0
Jul	90.7	65.8	78.3	104	1952	25	81.1	1980	50	1967	15	75.6	1971	0	411	.5	20.0	31.0	.0	.0	.0
Aug	89.7	64.7	77.2	104	1995	17	80.2	1995	49	1992	29	74.7	1992	0	378	.7	16.7	31.0	.0	.0	.0
Sep	85.1	58.9	72.0	99+	1990	10	76.1	1980	31	1967	30	68.1	1974	12	223	.0	7.9	30.0	.0	.0	.0
Oct	75.5	45.3	60.4	96	1954	6	66.4	1984	21	1952	30	54.7	1987	184	42	.0	.1	31.0	.0	1.9	.0
Nov	65.8	37.0	51.4	87	2000	1	59.2	1985	13	1970	24	43.3	1976	413	5	.0	.0	28.8	.0	9.8	.0
Dec	57.3	31.0	44.2	79+	1998	6	52.3	1984	-1	1962	13	35.1	2000	648	0	.0	.0	24.4	.2	17.2	@
Ann	74.0	46.6	60.3	104+	Aug 1995	17	81.1	Jul 1980	-1+	Jan 1963	24	29.8	Jan 1977	3204	1512	1.3	60.5	341.7	1.2	72.6	.1

+ 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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1949-2001

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

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NWS Call Sign:

Elevation: 680 Feet Lat: 32°49N

Lon: 85°39W

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	5.50	5.30	3.88	1996	27	10.32	1972	1.20	1981	10.2	7.0	3.0	1.4	2.33	2.83	3.53	4.10	4.64	5.18	5.76	6.44	7.28	8.58	9.75
Feb	5.12	5.48	6.00	1961	25	9.02	1975	1.38	1978	9.7	7.1	4.0	1.8	1.85	2.33	3.03	3.61	4.16	4.73	5.35	6.06	6.98	8.40	9.69
Mar	6.29	5.36	5.20	1970	20	13.62	1980	2.17	1985	10.8	7.8	3.9	2.1	2.44	3.02	3.86	4.55	5.20	5.87	6.59	7.42	8.48	10.11	11.59
Apr	4.55	4.40	4.34	1962	12	10.50	1979	1.36	1986	8.1	6.0	3.2	1.3	1.47	1.91	2.54	3.08	3.61	4.15	4.74	5.43	6.32	7.70	8.98
May	3.90	3.46	2.91	1976	15	10.15	1991	.90	1995	10.6	7.0	2.6	.9	1.26	1.63	2.18	2.64	3.09	3.56	4.07	4.66	5.43	6.63	7.73
Jun	3.96	3.63	4.01	2001	4	8.40	1989	1.56	1990	8.1	5.7	2.1	.7	1.46	1.84	2.37	2.81	3.24	3.67	4.14	4.68	5.38	6.45	7.43
Jul	5.06	3.98	3.43	1970	21	12.42	1975	1.55	1990	8.5	6.6	1.9	.9	1.50	1.98	2.70	3.32	3.93	4.56	5.26	6.07	7.13	8.79	10.33
Aug	4.10	3.78	3.33	1974	3	9.85	1974	1.16	1990	12.1	7.6	2.3	.6	1.68	2.05	2.58	3.02	3.43	3.84	4.29	4.81	5.46	6.47	7.37
Sep	3.58	3.29	6.75	1956	25	8.38	1975	.47	1984	9.1	6.0	2.5	1.0	.75	1.08	1.60	2.08	2.56	3.07	3.65	4.35	5.27	6.74	8.13
Oct	3.07	3.29	5.31	1995	5	9.63	1995	.37	1987	6.6	4.4	1.9	.9	.50	.77	1.21	1.63	2.07	2.54	3.08	3.74	4.62	6.05	7.42
Nov	4.47	3.86	3.75	1968	18	11.49	1992	1.81	1999	9.2	6.3	2.8	1.2	1.69	2.11	2.71	3.20	3.67	4.15	4.67	5.28	6.04	7.22	8.30
Dec	5.18	4.63	4.20	1961	10	9.89	1972	1.50	1980	11.1	7.6	3.5	1.4	2.08	2.56	3.23	3.79	4.31	4.85	5.43	6.09	6.94	8.23	9.41
Ann	54.78	54.12	6.75	Sep 1956	25	13.62	Mar 1980	.37	Oct 1987	114.1	79.1	33.7	14.2	39.58	42.53	46.31	49.17	51.71	54.16	56.69	59.48	62.85	67.74	71.96

+ 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: 1949-2001

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Station: CAMP HILL 2 NW, AL

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Climate Division: AL 5

NWS Call Sign:

Elevation: 680 Feet

Lat: 32°49N

Lon: 85°39W

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	4.3	1992	19	4.3	1992	4	1992	19	#	1992	.2	.2	.1	.0	.0	.2	.1	.0	.0
Feb	.2	.0	0	0	2.0	1973	10	2.0	1973	0	0	0	0	0	.2	.1	.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	.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	#	1993	31	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	#	.0	0	0	#	1993	1	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.3	1973	21	.3	1973	#+	1993	22	#+	1993	.1	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	.0	N/A	N/A	4.3	Jan 1992	19	4.3	Jan 1992	4	Jan 1992	19	#+	Dec 1993	.5	.3	.1	.0	.0	.2	.1	.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 5

NWS Call Sign:

Elevation: 680 Feet

Lat: 32° 49N

Lon: 85° 39W

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	5/05	4/29	4/25	4/21	4/18	4/15	4/11	4/07	4/01
32	4/22	4/17	4/14	4/10	4/08	4/05	4/01	3/29	3/24
28	4/08	3/31	3/25	3/21	3/16	3/12	3/07	3/01	2/22
24	3/23	3/15	3/09	3/04	2/28	2/23	2/18	2/12	2/04
20	3/06	2/27	2/22	2/18	2/14	2/10	2/06	2/01	1/25
16	3/02	2/22	2/16	2/10	2/05	1/31	1/25	1/18	1/04
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	10/03	10/08	10/11	10/14	10/17	10/20	10/23	10/26	10/31
32	10/09	10/14	10/18	10/21	10/24	10/27	10/30	11/03	11/08
28	10/26	10/31	11/05	11/08	11/11	11/15	11/18	11/22	11/28
24	11/05	11/11	11/16	11/20	11/24	11/28	12/02	12/06	12/13
20	11/19	11/28	12/05	12/11	12/16	12/21	12/27	1/02	1/12
16	12/03	12/13	12/20	12/26	1/01	1/07	1/14	1/23	2/08
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	206	197	191	186	181	177	172	166	157
32	219	212	207	203	199	195	191	186	179
28	273	261	253	246	240	233	226	218	206
24	299	289	281	275	268	262	256	248	238
20	340	326	317	310	303	296	289	281	269
16	>365	>365	347	335	327	319	311	303	291

* 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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Climate Division: AL 5 NWS Call Sign: Elevation: 680 Feet Lat: 32°49N Lon: 85°39W

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	733	569	398	192	54	1	0	0	12	184	413	648	3204
60	589	430	262	92	15	0	0	0	2	93	279	503	2265
57	503	353	194	51	6	0	0	0	0	56	209	418	1790
55	448	302	155	31	3	0	0	0	0	37	169	364	1509
50	322	188	77	7	0	0	0	0	0	11	90	246	941
32	49	7	0	0	0	0	0	0	0	0	1	23	80

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	339	362	632	818	1102	1281	1434	1401	1201	880	583	398	10431
55	25	12	74	159	392	591	721	688	511	205	61	26	3465
57	18	8	51	118	333	531	659	626	451	161	41	18	3015
60	11	1	26	69	249	441	566	533	363	105	21	10	2395
65	0	0	7	20	133	293	411	378	223	42	5	0	1512
70	0	0	0	3	55	155	256	224	109	11	0	0	813

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	176	231	457	623	894	1072	1201	1180	984	671	404	228	176	407	864	1487	2381	3453	4654	5834	6818	7489	7893	8121
45	96	136	317	475	739	922	1046	1025	834	516	277	130	96	232	549	1024	1763	2685	3731	4756	5590	6106	6383	6513
50	51	71	196	330	584	772	891	870	684	367	173	72	51	122	318	648	1232	2004	2895	3765	4449	4816	4989	5061
55	21	33	106	207	431	622	736	715	534	228	90	35	21	54	160	367	798	1420	2156	2871	3405	3633	3723	3758
60	0	6	43	109	282	472	581	560	389	115	38	9	0	6	49	158	440	912	1493	2053	2442	2557	2595	2604
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	127	173	309	415	592	723	813	801	666	448	278	160	127	300	609	1024	1616	2339	3152	3953	4619	5067	5345	5505

(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