U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: LEAD HILL, AR **COOP ID: 034106**

Climate Division: AR 1 **NWS Call Sign:** **Elevation: 715 Feet** **Lat: 36˚26N** **Lon: 92˚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	45.3	20.5	32.9	80	1952	26	42.1	1990	-14	1984	19	20.7	1977	996	0	.0	.0	13.3	4.1	24.1	.8
Feb	51.5	24.2	37.9	88	1962	12	48.7	1976	-21	1951	2	25.3	1978	760	0	.0	.0	17.4	2.3	18.6	.3
Mar	61.6	33.0	47.3	91	1967	13	52.1	1976	-14	1948	12	40.4	1975	549	0	.0	@	26.5	.2	12.7	.0
Apr	70.7	41.6	56.2	94+	1955	22	63.2	1981	12	1957	13	51.0	1983	277	11	.0	.3	29.4	.0	3.8	.0
May	78.2	53.0	65.6	96+	1953	26	71.4	1991	29+	1954	4	61.5	1976	90	109	.0	1.1	31.0	.0	.2	.0
Jun	86.1	61.3	73.7	106+	1952	29	77.8	1994	40	1983	1	69.5	1974	9	270	.2	9.6	30.0	.0	.0	.0
Jul	92.2	66.3	79.3	115	1954	14	84.1	1980	49+	1971	31	76.5	1989	0	442	2.8	21.6	31.0	.0	.0	.0
Aug	91.3	64.3	77.8	110	1984	29	82.6	1995	42	1986	29	71.4	1992	2	399	2.7	19.6	31.0	.0	.0	.0
Sep	83.1	56.0	69.6	107	2000	4	76.3	1998	28	1989	24	64.1	1974	45	182	.7	7.0	30.0	.0	.2	.0
Oct	73.2	44.5	58.9	98	1953	1	64.9	1971	14	1952	29	53.5	1976	217	26	.0	.4	30.7	.0	3.4	.0
Nov	59.3	33.6	46.5	87	1989	11	53.1	1999	7+	1958	29	40.4	1976	558	0	.0	.0	24.5	.2	11.8	.0
Dec	48.9	25.0	37.0	84	1955	24	44.2	1984	-12	1983	30	23.5	1983	869	0	.0	.0	16.6	2.2	20.3	.4
Ann	70.1	43.6	56.9	115	Jul 1954	14	84.1	Jul 1980	-21	Feb 1951	2	20.7	Jan 1977	4372	1439	6.4	59.6	311.4	9.0	95.1	1.5

\+ 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

(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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	2.49	2.02	3.38+	1969	29	6.22	1982	.13	1986
Feb	2.86	2.28	4.65	1985	23	7.26	1989	.71	1976
Mar	4.34	4.18	3.53	1964	9	9.16	1973	.56	1971
Apr	4.13	3.63	3.34	1996	22	9.60	1973	.45	1989
May	4.80	4.59	4.70	1950	10	10.78	1990	1.39	1994
Jun	4.37	3.88	4.18	1992	12	9.25	1992	.88	1972
Jul	3.00	2.42	4.27	1992	5	9.73	1992	.33	1980
Aug	2.88	2.57	3.32	1977	17	7.23	1981	.08	2000
Sep	3.92	3.46	3.85	1970	23	9.88	1993	.61	1982
Oct	3.22	2.74	4.00	1991	29	11.02	1984	.56	1989
Nov	4.73	4.09	4.74	1994	5	10.62	1996	.70	1976
Dec	3.54	2.84	3.81	1984	21	9.18	1982	.71	1989
Ann	44.28	45.61	4.74	Nov 1994	5	11.02	Oct 1984	.08	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.7	4.8	1.6	.6
Feb	6.8	5.0	1.8	.7
Mar	9.4	7.0	3.4	1.3
Apr	8.9	7.1	3.1	1.1
May	10.4	8.1	3.6	1.3
Jun	9.3	7.2	2.8	1.4
Jul	6.4	5.1	2.0	.7
Aug	6.8	5.1	2.0	.7
Sep	7.7	5.7	2.7	1.4
Oct	6.5	5.0	2.3	1.0
Nov	7.9	5.9	3.2	1.7
Dec	7.0	5.4	2.4	1.0
Ann	93.8	71.4	30.9	12.9

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.32	.52	.87	1.22	1.59	1.99	2.46	3.04	3.83	5.11	6.36
Feb	.65	.92	1.34	1.71	2.09	2.49	2.94	3.47	4.17	5.29	6.34
Mar	1.23	1.64	2.26	2.80	3.33	3.89	4.50	5.22	6.16	7.63	9.00
Apr	.97	1.35	1.95	2.49	3.03	3.60	4.24	5.00	6.00	7.59	9.09
May	1.82	2.26	2.90	3.44	3.94	4.46	5.02	5.67	6.50	7.77	8.93
Jun	1.43	1.84	2.45	2.97	3.47	3.99	4.56	5.22	6.07	7.40	8.62
Jul	.54	.80	1.24	1.65	2.07	2.52	3.04	3.66	4.49	5.83	7.11
Aug	.59	.85	1.27	1.66	2.05	2.46	2.93	3.50	4.25	5.44	6.58
Sep	.81	1.16	1.74	2.26	2.79	3.36	4.00	4.77	5.78	7.41	8.95
Oct	.72	1.02	1.49	1.92	2.34	2.79	3.30	3.91	4.71	5.98	7.18
Nov	.88	1.31	2.00	2.64	3.29	4.00	4.80	5.76	7.05	9.11	11.08
Dec	.74	1.06	1.58	2.05	2.53	3.04	3.61	4.30	5.21	6.66	8.04
Ann	30.36	33.02	36.44	39.05	41.38	43.64	45.99	48.58	51.74	56.34	60.34

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	3.3	2.5	#	0	7.0	1988	7	11.0	1996	7	1988	7	#+	1999	1.5	1.2	.5	.3	.0	.6	.2	.1	.0
Feb	1.7	.5	#	0	7.5	1984	26	8.0	1984	3	1989	27	#+	1998	1.2	.9	.2	.1	.0	.4	.1	.0	.0
Mar	2.1	.0	#	0	17.1	1994	9	18.1	1994	3	1989	6	#+	1998	.6	.6	.2	.2	.1	.1	@	.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	#+	2000	20	#+	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	#	0	.0	0	0	.0	0	#+	2000	18	#+	2000	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	#	0	.0	0	0	.0	0	#+	1999	12	#+	1999	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	#	0	.0	0	0	.0	0	#	1997	28	#	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.1	.0	#	0	1.0	1993	30	1.0	1993	#	1997	9	#	1997	.1	.1	.0	.0	.0	.0	.0	.0	.0
Nov	.3	.0	#	0	5.0	1971	23	5.0	1971	3	1971	23	#+	1997	.1	.1	.1	.1	.0	@	@	.0	.0
Dec	1.4	.0	#	0	7.0	1984	5	7.0	1984	7	1984	5	#+	2000	.8	.6	.2	.1	.0	.2	.1	@	.0
Ann	8.9	3.0	N/A	N/A	17.1	Mar 1994	9	18.1	Mar 1994	7+	Jan 1988	7	#+	Dec 2000	4.3	3.5	1.2	.8	.1	1.3	.4	.1	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	5/17	5/11	5/07	5/03	4/30	4/27	4/23	4/19	4/13
32	5/02	4/27	4/24	4/20	4/18	4/15	4/11	4/08	4/03
28	4/21	4/16	4/12	4/09	4/06	4/03	3/31	3/27	3/22
24	4/09	4/03	3/30	3/26	3/22	3/19	3/15	3/11	3/05
20	4/04	3/27	3/21	3/16	3/11	3/07	3/02	2/24	2/16
16	3/19	3/12	3/07	3/02	2/26	2/22	2/18	2/13	2/06

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	9/21	9/26	9/30	10/03	10/06	10/09	10/12	10/16	10/21
32	9/25	10/01	10/06	10/09	10/13	10/17	10/20	10/25	10/31
28	10/09	10/16	10/22	10/26	10/30	11/04	11/08	11/14	11/21
24	10/23	10/30	11/03	11/08	11/11	11/15	11/19	11/24	12/01
20	11/02	11/08	11/13	11/17	11/20	11/24	11/28	12/02	12/08
16	11/11	11/19	11/24	11/29	12/03	12/08	12/13	12/18	12/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	183	175	169	163	159	154	148	142	134
32	204	195	189	183	178	173	167	160	151
28	236	226	219	213	207	201	195	187	177
24	262	252	245	239	233	228	221	214	204
20	283	273	265	259	253	247	241	234	224
16	305	296	290	284	279	274	269	262	253

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	996	760	549	277	90	9	0	2	45	217	558	869	4372
60	841	626	403	158	34	1	0	0	13	111	414	714	3315
57	750	548	320	103	16	0	0	0	5	67	332	626	2767
55	691	496	268	74	9	0	0	0	2	45	281	569	2435
50	548	374	163	24	1	0	0	0	0	12	173	428	1723
32	155	84	8	0	0	0	0	0	0	0	8	86	341

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	182	247	482	724	1042	1251	1465	1420	1127	833	441	240	9454
55	5	16	29	108	338	561	752	707	439	165	24	10	3154
57	1	11	18	78	283	501	690	645	382	124	15	5	2753
60	0	6	9	43	208	413	597	552	300	76	6	0	2210
65	0	0	0	11	109	270	442	399	182	26	0	0	1439
70	0	0	0	2	45	149	288	256	94	6	0	0	840

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	80	151	333	552	824	1031	1235	1188	916	626	291	112	80	231	564	1116	1940	2971	4206	5394	6310	6936	7227	7339
45	37	83	213	409	669	881	1080	1033	766	474	181	58	37	120	333	742	1411	2292	3372	4405	5171	5645	5826	5884
50	12	40	123	278	514	731	925	878	617	327	103	26	12	52	175	453	967	1698	2623	3501	4118	4445	4548	4574
55	3	16	65	165	360	581	770	723	471	201	52	6	3	19	84	249	609	1190	1960	2683	3154	3355	3407	3413
60	0	4	27	83	225	431	615	568	331	107	15	0	0	4	31	114	339	770	1385	1953	2284	2391	2406	2406
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	65	122	235	366	537	695	822	788	607	411	192	85	65	187	422	788	1325	2020	2842	3630	4237	4648	4840	4925

(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:
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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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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