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: LAKE ARTHUR 10 SW, LA **COOP ID: 165065**

Climate Division: LA 7 **NWS Call Sign:** **Elevation: 10 Feet** **Lat: 30˚00N** **Lon: 92˚48W**

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	58.1	40.3	49.2	80+	1950	20	56.5	1998	13+	1962	12	39.7	1977	505	4	.0	.0	25.5	.1	5.5	.0
Feb	61.7	43.6	52.7	85	1949	23	59.4	2000	11	1951	1	42.0	1978	356	10	.0	.0	24.8	.1	3.0	.0
Mar	69.2	52.1	60.7	86	1999	7	67.3	2000	27	1965	20	55.9	1978	172	37	.0	.0	30.4	.0	.6	.0
Apr	75.3	58.8	67.1	92+	1999	29	72.4	1999	37+	1962	2	62.4	1983	49	111	.0	.1	30.0	.0	.0	.0
May	82.5	67.3	74.9	94+	1956	21	78.6	1998	46	1996	1	71.7	1976	2	309	.0	1.2	31.0	.0	.0	.0
Jun	88.7	72.9	80.8	97+	1953	8	83.3	1990	58	1966	1	78.3	1976	0	474	@	15.3	30.0	.0	.0	.0
Jul	90.8	74.5	82.7	99+	1960	29	85.0	1980	61+	1967	15	80.6	1972	0	547	@	23.3	31.0	.0	.0	.0
Aug	91.1	73.2	82.2	105+	1964	6	85.8	1999	58	1967	12	79.4	1992	0	531	.2	23.5	31.0	.0	.0	.0
Sep	88.0	68.6	78.3	105	2000	5	82.2	1980	45	1967	29	75.0	1974	0	399	.2	13.4	30.0	.0	.0	.0
Oct	79.8	58.9	69.4	96+	1998	1	73.6	1984	34+	1952	29	62.5	1976	34	168	.0	1.4	31.0	.0	@	.0
Nov	70.5	49.5	60.0	87	1978	3	66.5	1985	24+	1950	25	51.0	1976	204	54	.0	.0	29.5	.0	.5	.0
Dec	61.2	43.2	52.2	81+	1948	23	61.7	1984	18	1962	13	43.2	1989	413	17	.0	.0	27.8	.1	3.7	.0
Ann	76.4	58.6	67.5	105+	Sep 2000	5	85.8	Aug 1999	11	Feb 1951	1	39.7	Jan 1977	1735	2661	.4	78.2	352.0	.3	13.3	.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/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	4.70	4.35	4.43	1959	30	13.51	1974	.78	1976
Feb	4.21	3.36	4.78	1955	5	10.81	1997	.46	1975
Mar	3.36	3.13	5.66	1965	1	7.81	1980	.48	1971
Apr	4.27	3.35	11.25	1967	14	9.74	1977	.49	1976
May	5.96	5.81	7.16	2000	3	14.87	1991	.02	1998
Jun	5.32	5.28	4.77	1957	27	14.85	1989	1.27	1979
Jul	4.63	3.93	6.55	1952	16	9.52	1972	1.75	1978
Aug	5.68	5.30	7.21	1962	29	14.95	1977	.67	1999
Sep	4.72	3.55	8.10	1971	17	16.88	1998	1.37	1978
Oct	3.73	3.21	5.72	1970	28	12.65	1985	.33	1978
Nov	5.81	5.84	6.10	2000	20	14.97	2000	1.16	1999
Dec	5.37	4.41	10.34	1971	6	17.86	1971	1.59	1980
Ann	57.76	57.88	11.25	Apr 1967	14	17.86	Dec 1971	.02	May 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.2	3.4	1.6	.9
Feb	4.1	2.8	1.2	.6
Mar	9.2	5.4	2.2	1.0
Apr	7.2	4.6	1.9	1.1
May	8.8	6.1	3.1	1.8
Jun	12.7	8.1	3.4	1.2
Jul	12.4	9.2	3.8	1.6
Aug	10.8	6.7	2.3	.8
Sep	11.6	7.3	2.9	1.3
Oct	8.0	4.8	2.4	1.3
Nov	7.1	4.5	2.7	1.5
Dec	11.1	6.7	3.4	1.7
Ann	109.2	69.6	30.9	14.8

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	.96	1.39	2.08	2.71	3.34	4.02	4.79	5.72	6.94	8.89	10.74
Feb	1.05	1.44	2.06	2.60	3.14	3.70	4.33	5.09	6.07	7.62	9.07
Mar	1.06	1.37	1.85	2.25	2.64	3.05	3.50	4.02	4.69	5.74	6.72
Apr	.51	.85	1.45	2.05	2.68	3.38	4.20	5.22	6.60	8.87	11.07
May	.38	.74	1.49	2.30	3.22	4.28	5.57	7.22	9.52	13.40	17.26
Jun	1.53	2.03	2.80	3.46	4.10	4.78	5.52	6.40	7.54	9.32	10.98
Jul	1.78	2.21	2.82	3.33	3.82	4.31	4.85	5.47	6.26	7.47	8.57
Aug	1.60	2.14	2.96	3.67	4.36	5.09	5.89	6.83	8.06	9.99	11.79
Sep	1.00	1.43	2.12	2.75	3.38	4.06	4.82	5.73	6.94	8.86	10.69
Oct	.45	.74	1.26	1.78	2.33	2.95	3.67	4.55	5.76	7.74	9.66
Nov	1.95	2.50	3.31	3.99	4.65	5.32	6.06	6.92	8.03	9.75	11.33
Dec	1.91	2.42	3.15	3.76	4.35	4.95	5.61	6.37	7.35	8.85	10.23
Ann	41.94	45.02	48.96	51.95	54.59	57.14	59.77	62.67	66.18	71.25	75.64

\+ 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	.0	0	0	2.5	1973	12	2.5	1973	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Feb	#	.0	0	0	#	1978	8	#	1978	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	2.5	Jan 1973	12	2.5	Jan 1973	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.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

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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	3/24	3/16	3/11	3/06	3/02	2/26	2/21	2/16	2/08
32	3/11	3/02	2/24	2/19	2/14	2/08	2/03	1/27	1/16
28	2/28	2/18	2/10	2/04	1/28	1/22	1/14	1/04	0/00
24	2/03	1/21	1/11	12/29	0/00	0/00	0/00	0/00	0/00
20	1/15	12/27	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/27	0/00	0/00	0/00	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	11/05	11/10	11/14	11/18	11/21	11/24	11/27	12/01	12/07
32	11/15	11/23	11/30	12/05	12/10	12/15	12/20	12/27	1/06
28	11/25	12/07	12/15	12/23	12/30	1/06	1/15	1/26	0/00
24	12/23	1/03	1/13	1/23	0/00	0/00	0/00	0/00	0/00
20	1/06	1/25	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/14	0/00	0/00	0/00	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	292	282	275	269	263	257	251	244	234
32	347	326	315	306	298	290	282	273	260
28	>365	>365	>365	343	332	323	314	305	294
24	>365	>365	>365	>365	>365	>365	>365	>365	335
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

***** 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	505	356	172	49	2	0	0	0	0	34	204	413	1735
60	369	236	83	12	0	0	0	0	0	8	118	284	1110
57	297	176	46	4	0	0	0	0	0	3	78	219	823
55	255	143	29	1	0	0	0	0	0	2	57	182	669
50	167	75	7	0	0	0	0	0	0	0	22	104	375
32	11	0	0	0	0	0	0	0	0	0	0	2	13

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	544	579	888	1052	1330	1464	1570	1554	1389	1158	840	628	12996
55	74	77	204	364	617	774	857	841	699	446	207	96	5256
57	54	55	159	306	555	714	795	779	639	386	168	71	4681
60	33	30	102	224	462	624	702	686	549	298	118	42	3870
65	4	10	37	111	309	474	547	531	399	168	54	17	2661
70	1	0	9	39	167	324	392	376	252	72	19	4	1655

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	362	417	661	840	1095	1232	1333	1323	1162	923	620	431	362	779	1440	2280	3375	4607	5940	7263	8425	9348	9968	10399
45	237	287	509	690	940	1082	1178	1168	1012	768	473	295	237	524	1033	1723	2663	3745	4923	6091	7103	7871	8344	8639
50	137	178	366	542	785	932	1023	1013	862	614	338	180	137	315	681	1223	2008	2940	3963	4976	5838	6452	6790	6970
55	67	92	233	395	630	782	868	858	712	460	215	95	67	159	392	787	1417	2199	3067	3925	4637	5097	5312	5407
60	27	39	118	253	475	632	713	703	562	314	122	46	27	66	184	437	912	1544	2257	2960	3522	3836	3958	4004
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	201	225	400	547	776	881	950	928	818	616	381	244	201	426	826	1373	2149	3030	3980	4908	5726	6342	6723	6967

(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.
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