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: LEESVILLE, LA **COOP ID: 165266**

Climate Division: LA 4 **NWS Call Sign:** **Elevation: 28 Feet** **Lat: 31˚08N** **Lon: 93˚15W**

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	58.7	36.6	47.7	84	1943	22	53.8	1975	1	1948	25	38.9	1977	547	0	.0	.0	23.3	.4	12.8	.0
Feb	63.6	39.6	51.6	88	1940	28	57.4	1999	5	1949	1	41.5	1978	381	6	.0	.0	24.0	.3	8.5	.0
Mar	71.1	47.1	59.1	92	1946	30	65.0	1974	17	1980	3	53.9	1996	210	26	.0	@	29.7	.0	3.0	.0
Apr	77.4	53.0	65.2	93	1987	21	71.2	1981	29	1962	2	60.9	1997	76	83	.0	.3	30.0	.0	.5	.0
May	84.3	61.4	72.9	99	1998	31	77.1	1996	39	1960	13	68.9	1976	6	249	.0	4.7	31.0	.0	.0	.0
Jun	90.0	67.5	78.8	104+	1936	20	84.7	1998	48+	1954	5	75.6	1976	0	413	.5	18.3	30.0	.0	.0	.0
Jul	93.0	70.1	81.6	106	1980	18	86.1	1998	53	1967	15	79.1	1989	0	513	1.7	25.3	31.0	.0	.0	.0
Aug	92.9	69.0	81.0	108+	1980	23	84.6	1980	49	1956	24	76.8	1992	0	494	1.6	25.2	31.0	.0	.0	.0
Sep	88.3	63.8	76.1	109	2000	1	82.6	1980	35	1967	29	72.6	1974	2	334	.7	14.9	30.0	.0	.0	.0
Oct	79.6	52.3	66.0	96+	1938	1	70.3	1973	24	1952	29	58.8	1976	71	100	.0	2.2	31.0	.0	.4	.0
Nov	69.0	44.7	56.9	88+	1945	2	64.0	1973	17	1976	30	49.5	1976	268	23	.0	.0	28.8	.0	4.2	.0
Dec	61.1	38.1	49.6	83	1995	4	59.4	1984	6	1989	23	40.2	1989	487	9	.0	.0	25.8	.3	10.9	.0
Ann	77.4	53.6	65.5	109	Sep 2000	1	86.1	Jul 1998	1	Jan 1948	25	38.9	Jan 1977	2048	2250	4.5	90.9	345.6	1.0	40.3	.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: 1930-2001

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

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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	5.84	4.98	4.78	1994	27	13.72	1990	.87	2000
Feb	4.63	4.00	11.00	1966	10	11.92	1983	.74	1996
Mar	5.16	4.62	4.15	1964	2	11.46	1995	1.95	1986
Apr	4.44	3.60	8.45	1953	29	11.82	1995	.34	1987
May	5.53	5.28	8.12	1953	18	14.91	1975	.02	1998
Jun	4.76	4.64	6.03	2001	7	17.52	1989	.85	1974
Jul	4.44	4.57	6.45	1936	2	8.99	1975	.75	2000
Aug	3.62	3.85	7.58	1940	8	5.78	1991	.00	1980
Sep	4.19	3.66	6.87	1998	12	12.42	1998	.57	1993
Oct	3.79	3.16	4.90	2001	13	14.05	1985	.29	1978
Nov	5.31	4.60	6.96	1948	19	11.95	2000	1.15	1999
Dec	6.07	5.30	7.30	1982	27	23.04	1982	1.23	1980
Ann	57.78	58.10	11.00	Feb 1966	10	23.04	Dec 1982	.00	Aug 1980

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	7.4	3.9	2.2
Feb	8.7	6.0	2.7	1.5
Mar	9.2	6.6	3.3	1.8
Apr	7.2	5.1	2.6	1.6
May	8.0	6.3	3.7	2.2
Jun	9.0	6.5	3.1	1.5
Jul	9.4	6.8	3.1	1.3
Aug	8.6	6.2	2.4	1.1
Sep	7.8	5.7	2.6	1.3
Oct	7.1	5.0	2.4	1.3
Nov	8.9	6.2	3.5	1.9
Dec	10.1	7.5	3.9	2.0
Ann	105.2	75.3	37.2	19.7

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	1.07	1.59	2.44	3.24	4.05	4.92	5.91	7.12	8.71	11.29	13.74
Feb	.94	1.37	2.04	2.67	3.29	3.96	4.72	5.63	6.83	8.76	10.59
Mar	2.23	2.69	3.34	3.87	4.37	4.87	5.41	6.03	6.81	7.99	9.07
Apr	.59	.95	1.58	2.20	2.85	3.57	4.40	5.43	6.82	9.09	11.29
May	.76	1.22	2.01	2.78	3.58	4.47	5.50	6.76	8.46	11.25	13.93
Jun	.71	1.11	1.79	2.45	3.14	3.89	4.75	5.81	7.23	9.55	11.78
Jul	1.22	1.64	2.28	2.84	3.39	3.96	4.60	5.35	6.32	7.86	9.29
Aug	.97	1.49	2.07	2.53	2.95	3.38	3.85	4.38	5.07	6.12	7.08
Sep	1.22	1.62	2.22	2.74	3.24	3.77	4.35	5.03	5.92	7.31	8.60
Oct	.68	1.02	1.57	2.09	2.62	3.18	3.83	4.62	5.66	7.35	8.95
Nov	1.31	1.81	2.58	3.27	3.95	4.67	5.47	6.42	7.67	9.64	11.49
Dec	1.73	2.31	3.18	3.94	4.67	5.44	6.29	7.30	8.60	10.64	12.54
Ann	40.81	44.08	48.28	51.48	54.32	57.06	59.90	63.04	66.84	72.37	77.15

\+ 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: 1930-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.3	.0	#	0
Feb	#	.0	#	0
Mar	.0	.0	0	0
Apr	.0	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	.0	.0	0	0
Dec	#	.0	#	0
Ann	.3	.0	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	2.0	1973	12	3.0	1973	3	1973	12	#+	1992
Feb	#	1989	7	#+	1989	#+	1989	7	#+	1989
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1998	25	#+	1998	#+	1998	25	#+	1998
Ann	2.0	Jan 1973	12	3.0	Jan 1973	3	Jan 1973	12	#+	Dec 1998

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.2	.2	.0	.0	.0
Feb	.0	.0	.0	.0	.0
Mar	.0	.0	.0	.0	.0
Apr	.0	.0	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.0	.0	.0	.0	.0
Dec	.0	.0	.0	.0	.0
Ann	.2	.2	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	@	.0	.0
Feb	.0	.0	.0	.0
Mar	.0	.0	.0	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.0	.0	.0	.0
Dec	.0	.0	.0	.0
Ann	.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

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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	4/16	4/11	4/07	4/03	3/31	3/28	3/24	3/20	3/15
32	4/08	4/01	3/27	3/23	3/19	3/15	3/11	3/06	2/27
28	3/19	3/11	3/06	3/01	2/25	2/20	2/15	2/10	2/02
24	3/06	2/25	2/18	2/12	2/07	2/02	1/27	1/20	1/11
20	2/24	2/12	2/03	1/26	1/18	1/08	12/25	0/00	0/00
16	1/29	1/15	1/01	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	10/15	10/21	10/26	10/30	11/02	11/06	11/10	11/15	11/21
32	10/26	11/01	11/05	11/08	11/12	11/15	11/19	11/23	11/29
28	11/03	11/11	11/17	11/21	11/26	11/30	12/05	12/11	12/18
24	11/20	11/28	12/03	12/08	12/12	12/17	12/21	12/27	1/04
20	12/04	12/14	12/22	12/29	1/05	1/13	1/25	0/00	0/00
16	12/26	1/09	1/23	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	242	233	226	221	216	210	205	198	189
32	262	254	247	242	237	232	227	221	212
28	303	293	286	279	274	268	261	254	244
24	340	328	320	313	306	300	294	286	276
20	>365	>365	>365	>365	360	339	326	314	300
16	>365	>365	>365	>365	>365	>365	>365	>365	347

***** 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	547	381	210	76	6	0	0	0	2	71	268	487	2048
60	405	254	109	23	0	0	0	0	0	23	161	347	1322
57	327	189	65	9	0	0	0	0	0	9	111	272	982
55	280	152	43	4	0	0	0	0	0	5	84	229	797
50	183	79	12	0	0	0	0	0	0	1	34	139	448
32	12	0	0	0	0	0	0	0	0	0	0	5	17

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	496	549	840	997	1266	1403	1536	1517	1322	1052	745	549	12272
55	51	57	169	311	553	713	823	804	632	344	139	60	4656
57	37	38	129	255	491	653	761	742	572	286	106	42	4112
60	22	19	80	180	398	563	668	649	482	207	66	24	3358
65	0	6	26	83	249	413	513	494	334	100	23	9	2250
70	0	0	6	25	123	265	358	339	198	34	6	0	1354

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	290	368	604	767	1031	1180	1304	1287	1099	820	524	340	290	658	1262	2029	3060	4240	5544	6831	7930	8750	9274	9614
45	186	249	458	618	876	1030	1149	1132	949	665	385	219	186	435	893	1511	2387	3417	4566	5698	6647	7312	7697	7916
50	106	159	323	469	721	880	994	977	799	514	262	133	106	265	588	1057	1778	2658	3652	4629	5428	5942	6204	6337
55	55	86	200	331	566	730	839	822	649	367	163	75	55	141	341	672	1238	1968	2807	3629	4278	4645	4808	4883
60	24	41	108	207	411	580	684	667	500	234	87	32	24	65	173	380	791	1371	2055	2722	3222	3456	3543	3575
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	188	241	388	504	702	808	889	867	744	547	338	222	188	429	817	1321	2023	2831	3720	4587	5331	5878	6216	6438

(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