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: LAFAYETTE REG AP, LA **COOP ID: 165026**

Climate Division: LA 8 **NWS Call Sign: LFT** **Elevation: 38 Feet** **Lat: 30˚12N** **Lon: 91˚59W**

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	61.6	42.1	51.9	83	1957	31	60.1	1974	10	1982	11	44.0	1977	429	7	.0	.0	25.7	.1	5.8	.0
Feb	65.0	45.1	55.1	87	1957	7	60.4	1990	13	1951	3	46.1	1978	288	10	.0	.0	25.7	.1	2.5	.0
Mar	71.8	51.6	61.7	89	1955	16	67.3	1974	22	1980	3	57.2	1971	149	48	.0	.0	30.6	.0	.7	.0
Apr	78.1	57.5	67.8	93+	1987	21	72.7	1999	33	1987	5	63.3	1983	43	127	.0	.3	30.0	.0	.0	.0
May	84.7	65.7	75.2	98+	1977	31	79.8	1998	44+	1954	4	72.0	1971	2	319	.0	4.8	31.0	.0	.0	.0
Jun	89.3	71.5	80.4	102	1954	30	83.8	1998	54+	1954	5	77.7	1983	0	461	@	16.8	30.0	.0	.0	.0
Jul	90.7	73.7	82.2	102	1969	3	84.4	1986	61+	1967	15	80.0	1994	0	533	@	23.2	31.0	.0	.0	.0
Aug	90.9	73.2	82.1	104	2000	30	86.0	1999	59	1956	23	79.0	1992	0	529	.2	22.4	31.0	.0	.0	.0
Sep	87.7	68.8	78.3	103	2000	3	82.0	1972	45+	1967	29	75.0	1975	0	398	.2	13.5	30.0	.0	.0	.0
Oct	80.5	58.2	69.4	94+	1952	2	75.2	1984	31	1952	29	62.7	1976	39	175	.0	1.3	31.0	.0	@	.0
Nov	71.6	49.8	60.7	88	1971	2	67.0	1985	24	1956	30	53.0	1976	184	55	.0	.0	29.3	.0	.9	.0
Dec	64.5	44.0	54.3	83+	1956	5	64.7	1971	9	1989	23	44.4	1989	359	27	.0	.0	27.7	.1	4.1	.0
Ann	78.0	58.4	68.3	104	Aug 2000	30	86.0	Aug 1999	9	Dec 1989	23	44.0	Jan 1977	1493	2689	.4	82.3	353.0	.3	14.0	.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	6.25	5.84	9.99	1993	20	16.74	1993	.55	1971
Feb	4.22	3.99	4.91	1955	5	8.81	1988	.69	1989
Mar	4.51	3.61	4.15	1979	2	11.62	1973	.73	1984
Apr	4.72	4.15	7.84	1979	21	15.57	1979	.45	1987
May	5.31	4.83	10.38	1980	16	13.52	1980	.19	1998
Jun	6.06	6.06	6.42	2001	6	16.23	1989	.04	1979
Jul	6.65	6.69	5.66	1954	29	14.52	1975	1.58	1980
Aug	4.98	4.16	6.18	1949	15	10.39	1992	1.23	1999
Sep	5.30	4.75	5.92	1963	17	16.15	1973	.77	1981
Oct	4.02	2.80	7.10	1964	3	15.65	1985	.30	1978
Nov	4.64	4.06	7.24	1995	2	11.57	2000	.78	1999
Dec	5.51	5.06	5.74	1995	18	14.68	1982	.89	1980
Ann	62.17	61.80	10.38	May 1980	16	16.74	Jan 1993	.04	Jun 1979

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.2	7.4	3.7	2.0
Feb	8.3	5.8	2.8	1.5
Mar	8.6	6.1	3.0	1.4
Apr	7.0	4.9	2.7	1.5
May	8.1	5.7	3.1	1.6
Jun	11.0	8.2	4.2	2.0
Jul	13.0	9.4	4.2	2.2
Aug	11.6	8.1	3.4	1.4
Sep	9.4	6.7	3.3	1.7
Oct	6.0	4.3	2.2	1.2
Nov	8.4	6.1	3.0	1.4
Dec	9.6	6.7	3.3	1.9
Ann	111.2	79.4	38.9	19.8

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	1.33	1.90	2.82	3.65	4.49	5.38	6.39	7.59	9.19	11.73	14.13
Feb	.98	1.37	1.99	2.54	3.10	3.68	4.34	5.12	6.15	7.78	9.31
Mar	1.35	1.78	2.42	2.97	3.51	4.07	4.68	5.41	6.34	7.81	9.16
Apr	.39	.70	1.33	1.98	2.70	3.52	4.50	5.74	7.45	10.32	13.14
May	.90	1.36	2.14	2.87	3.61	4.42	5.35	6.48	7.98	10.41	12.73
Jun	.99	1.51	2.39	3.23	4.09	5.02	6.10	7.40	9.15	11.97	14.68
Jul	2.57	3.19	4.07	4.80	5.49	6.20	6.96	7.85	8.98	10.70	12.28
Aug	1.66	2.13	2.82	3.41	3.97	4.56	5.19	5.94	6.89	8.38	9.75
Sep	1.35	1.85	2.62	3.30	3.97	4.68	5.47	6.40	7.63	9.56	11.36
Oct	.47	.78	1.35	1.91	2.50	3.17	3.95	4.92	6.23	8.39	10.49
Nov	1.00	1.43	2.11	2.72	3.34	4.00	4.75	5.64	6.82	8.70	10.47
Dec	1.69	2.22	3.00	3.67	4.32	4.99	5.73	6.60	7.73	9.48	11.10
Ann	46.02	49.20	53.24	56.29	58.99	61.59	64.26	67.21	70.77	75.91	80.33

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	.1	.0	0	0
Feb	.1	.0	0	0
Mar	#	.0	0	0
Apr	.0	.0	0	0
May	.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
Dec	#	.0	0	0
Ann	.2	.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	1.5	1973	11	1.5	1973	0	0	0	0	0
Feb	2.0	1973	9	2.0	1973	#	1988	6	0	0
Mar	#	1996	7	#+	1996	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	#	1988
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	#	1976	28	#	1976	0	0	0	0	0
Dec	#	1997	14	#+	1997	0	0	0	0	0
Ann	2.0	Feb 1973	9	2.0	Feb 1973	#	Feb 1988	6	#	May 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.1	.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	.1	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.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	.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	3/27	3/19	3/14	3/09	3/04	2/28	2/23	2/17	2/09
32	3/17	3/08	3/01	2/23	2/18	2/13	2/07	1/31	1/22
28	3/02	2/18	2/10	2/03	1/27	1/20	1/12	1/01	0/00
24	2/08	1/26	1/16	1/05	12/17	0/00	0/00	0/00	0/00
20	1/15	12/28	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/08	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	11/01	11/07	11/10	11/14	11/17	11/20	11/23	11/27	12/02
32	11/13	11/20	11/25	11/29	12/03	12/06	12/10	12/15	12/22
28	11/26	12/06	12/14	12/21	12/27	1/03	1/10	1/21	0/00
24	12/17	12/27	1/05	1/14	1/26	0/00	0/00	0/00	0/00
20	1/03	1/24	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/15	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	283	274	268	262	257	251	246	239	230
32	318	307	300	293	287	281	274	267	256
28	>365	>365	>365	342	330	320	312	302	290
24	>365	>365	>365	>365	>365	>365	>365	>365	332
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	429	288	149	43	2	0	0	0	0	39	184	359	1493
60	301	173	66	10	0	0	0	0	0	11	101	242	904
57	237	120	34	3	0	0	0	0	0	4	64	185	647
55	200	91	20	1	0	0	0	0	0	2	44	152	510
50	121	36	4	0	0	0	0	0	0	0	15	82	258
32	5	0	0	0	0	0	0	0	0	0	0	0	5

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	619	646	922	1073	1340	1451	1556	1552	1388	1159	861	691	13258
55	101	93	229	384	627	761	843	839	698	448	215	130	5368
57	76	66	181	326	565	701	781	777	638	388	174	101	4774
60	47	35	120	243	472	611	688	684	548	301	122	64	3935
65	7	10	48	127	319	461	533	529	398	175	55	27	2689
70	6	0	13	49	178	311	378	374	253	81	19	11	1673

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	390	455	685	845	1108	1233	1329	1321	1161	916	627	458	390	845	1530	2375	3483	4716	6045	7366	8527	9443	10070	10528
45	262	326	533	695	953	1083	1174	1166	1011	761	477	319	262	588	1121	1816	2769	3852	5026	6192	7203	7964	8441	8760
50	164	211	383	545	798	933	1019	1011	861	607	338	205	164	375	758	1303	2101	3034	4053	5064	5925	6532	6870	7075
55	89	118	252	399	643	783	864	856	711	454	220	123	89	207	459	858	1501	2284	3148	4004	4715	5169	5389	5512
60	44	55	140	261	488	633	709	701	561	309	124	65	44	99	239	500	988	1621	2330	3031	3592	3901	4025	4090
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	225	262	424	557	775	868	931	927	816	614	385	272	225	487	911	1468	2243	3111	4042	4969	5785	6399	6784	7056

(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