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: NATCHITOCHES, LA **COOP ID: 166582**

Climate Division: LA 4 **NWS Call Sign:** **Elevation: 130 Feet** **Lat: 31˚46N** **Lon: 93˚06W**

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	56.7	35.9	46.3	84	1950	26	51.9	1975	3+	1930	18	37.3	1978	587	0	.0	.0	22.0	.5	12.2	.0
Feb	62.0	39.0	50.5	89+	1977	26	56.7	1976	3	1951	2	40.1	1978	411	6	.0	.0	23.7	.4	7.4	.0
Mar	69.7	46.3	58.0	93	1974	31	64.6	1974	21+	1980	2	53.4	1996	236	20	.0	.1	29.8	.0	2.0	.0
Apr	76.8	53.0	64.9	95	1948	29	70.0	1999	30	1942	1	60.0	1983	79	77	.0	.7	30.0	.0	.2	.0
May	84.0	62.4	73.2	100+	1951	30	77.9	1996	42+	1945	5	68.6	1976	10	264	@	6.9	31.0	.0	.0	.0
Jun	90.2	69.9	80.1	104+	1936	20	85.8	1998	50+	1946	5	77.2	1989	0	451	.7	19.6	30.0	.0	.0	.0
Jul	93.3	73.5	83.4	108	1954	24	88.9	1998	56	1936	31	79.7	1972	0	569	2.2	26.0	31.0	.0	.0	.0
Aug	93.1	72.5	82.8	108	1962	12	87.4	2000	53+	1956	22	78.1	1992	0	551	2.9	25.7	31.0	.0	.0	.0
Sep	87.8	66.4	77.1	110+	2000	1	83.6	1980	40	1967	29	72.4	1974	1	365	.6	15.2	30.0	.0	.0	.0
Oct	78.6	54.4	66.5	99	1938	1	70.5	1971	26	1952	30	59.6	1976	60	107	.0	2.5	31.0	.0	.1	.0
Nov	67.6	45.2	56.4	88+	1936	2	62.5	1973	19+	1938	25	49.7	1976	280	21	.0	.0	28.5	.0	3.0	.0
Dec	59.2	38.0	48.6	83+	1956	4	59.1	1984	5+	1989	23	39.3	1989	516	7	.0	.0	25.0	.4	10.0	.0
Ann	76.6	54.7	65.7	110+	Sep 2000	1	88.9	Jul 1998	3+	Feb 1951	2	37.3	Jan 1978	2180	2438	6.4	96.7	343.0	1.3	34.9	.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

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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	5.68	4.73	6.30	1999	29	17.20	1999	.55	1971
Feb	4.41	3.13	6.00	1946	9	10.28	1997	.93	1999
Mar	5.34	5.10	4.34	1965	30	9.39	1995	1.83	1971
Apr	4.52	3.70	8.70	1953	29	14.47	1991	.32	1971
May	5.83	4.93	8.55	1989	18	18.32	1989	.00	1998
Jun	4.50	3.78	6.63	1989	28	15.86	1989	1.13	1995
Jul	3.39	3.17	4.70	1936	2	7.85	1973	.34	1986
Aug	3.49	3.73	3.77	1955	3	7.50	1998	.14	1980
Sep	3.09	2.68	7.05	1998	12	10.87	1998	.34	2000
Oct	4.14	3.54	8.00	1941	31	11.90	1984	.34	2000
Nov	4.62	3.57	6.20	1987	16	14.63	1987	.67	1989
Dec	5.92	5.83	6.00	1982	27	21.77	1982	.81	1980
Ann	54.93	53.54	8.70	Apr 1953	29	21.77	Dec 1982	.00	May 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.6	3.4	1.9
Feb	7.8	5.8	3.0	1.6
Mar	9.7	6.5	3.5	1.8
Apr	7.2	5.0	2.7	1.6
May	9.1	6.7	3.7	1.9
Jun	8.8	6.2	2.9	1.4
Jul	8.9	6.0	2.2	.8
Aug	7.4	5.6	2.3	1.0
Sep	6.8	4.9	2.1	.8
Oct	6.6	4.8	2.6	1.6
Nov	8.1	5.9	2.8	1.3
Dec	9.9	6.8	4.0	2.2
Ann	100.8	71.8	35.2	17.9

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	.96	1.45	2.28	3.06	3.86	4.73	5.73	6.93	8.55	11.16	13.65
Feb	.93	1.33	1.98	2.57	3.16	3.79	4.50	5.36	6.49	8.29	9.99
Mar	2.10	2.59	3.30	3.88	4.43	4.98	5.59	6.29	7.17	8.54	9.78
Apr	.57	.94	1.58	2.21	2.87	3.61	4.46	5.52	6.95	9.30	11.57
May	1.05	1.85	2.84	3.63	4.40	5.20	6.09	7.14	8.50	10.62	12.61
Jun	.87	1.27	1.93	2.54	3.16	3.82	4.58	5.48	6.69	8.62	10.46
Jul	.74	1.05	1.55	2.00	2.45	2.93	3.47	4.11	4.96	6.31	7.59
Aug	.48	.76	1.26	1.75	2.25	2.81	3.46	4.26	5.33	7.09	8.79
Sep	.55	.83	1.28	1.70	2.13	2.60	3.13	3.77	4.62	6.00	7.31
Oct	.61	.96	1.56	2.13	2.73	3.38	4.13	5.05	6.29	8.31	10.25
Nov	.91	1.33	2.01	2.63	3.26	3.94	4.70	5.63	6.85	8.81	10.67
Dec	1.45	2.01	2.87	3.64	4.40	5.20	6.10	7.16	8.56	10.76	12.83
Ann	38.93	42.02	45.99	48.99	51.67	54.25	56.92	59.88	63.46	68.65	73.15

\+ 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

Complete documentation available from:
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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	.8	.0	#	0
Feb	#	.0	#	0
Mar	#	.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
Dec	.0	.0	#	0
Ann	.8	.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	6.0	1977	31	6.0	1977	6	1977	31	#+	1997
Feb	#	1989	7	#+	1989	#+	1988	12	#+	1988
Mar	#	1993	12	#	1993	#	1993	13	#	1993
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	#	1976	29	#	1976	0	0	0	0	0
Dec	.7	1996	16	.8	1996	#+	1996	17	#+	1996
Ann	6.0	Jan 1977	31	6.0	Jan 1977	6	Jan 1977	31	#+	Jan 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.1	.1	.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	.1	.0	.0	.0	.0
Ann	.5	.3	.1	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	@	@	.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	.2	@	@	.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	4/09	4/02	3/29	3/25	3/21	3/17	3/13	3/09	3/02
32	3/27	3/19	3/14	3/09	3/05	2/28	2/24	2/18	2/11
28	3/16	3/07	3/01	2/23	2/18	2/13	2/08	2/02	1/24
24	3/02	2/19	2/11	2/05	1/29	1/22	1/15	1/06	12/19
20	2/02	1/23	1/15	1/07	12/29	12/14	0/00	0/00	0/00
16	1/24	1/11	12/25	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	10/26	11/01	11/05	11/08	11/11	11/14	11/18	11/22	11/27
32	11/03	11/09	11/13	11/16	11/20	11/23	11/26	11/30	12/06
28	11/19	11/26	12/01	12/05	12/09	12/12	12/17	12/21	12/28
24	11/23	12/05	12/13	12/20	12/27	1/02	1/10	1/20	2/07
20	12/13	12/22	12/30	1/06	1/14	1/28	0/00	0/00	0/00
16	1/01	1/15	2/02	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	260	251	245	239	234	229	224	218	209
32	290	279	272	265	259	253	247	239	228
28	320	311	304	298	293	287	281	274	265
24	>365	>365	351	336	326	318	309	300	287
20	>365	>365	>365	>365	>365	>365	>365	340	321
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	587	411	236	79	10	0	0	0	1	60	280	516	2180
60	443	284	128	24	1	0	0	0	0	18	170	374	1442
57	362	216	80	9	0	0	0	0	0	7	119	297	1090
55	312	177	55	4	0	0	0	0	0	3	91	250	892
50	208	99	17	0	0	0	0	0	0	0	39	156	519
32	16	2	0	0	0	0	0	0	0	0	0	7	25

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	459	520	807	987	1277	1441	1592	1574	1354	1070	731	521	12333
55	42	52	149	301	564	751	879	861	664	360	132	52	4807
57	30	35	112	246	502	691	817	799	604	302	100	36	4274
60	18	18	66	171	410	601	724	706	514	220	61	20	3529
65	0	6	20	77	264	451	569	551	365	107	21	7	2438
70	0	0	3	23	141	302	414	397	227	37	5	0	1549

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	270	358	592	775	1051	1213	1350	1336	1120	836	514	316	270	628	1220	1995	3046	4259	5609	6945	8065	8901	9415	9731
45	168	243	446	625	896	1063	1195	1181	970	681	373	200	168	411	857	1482	2378	3441	4636	5817	6787	7468	7841	8041
50	93	150	308	475	741	913	1040	1026	820	529	250	114	93	243	551	1026	1767	2680	3720	4746	5566	6095	6345	6459
55	48	82	190	335	586	763	885	871	670	379	148	63	48	130	320	655	1241	2004	2889	3760	4430	4809	4957	5020
60	21	38	98	204	432	613	730	716	521	242	77	29	21	59	157	361	793	1406	2136	2852	3373	3615	3692	3721
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	169	229	370	500	714	838	921	898	759	545	317	198	169	398	768	1268	1982	2820	3741	4639	5398	5943	6260	6458

(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