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: ST BERNARD, LA **COOP ID: 168108**

Climate Division: LA 9 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 29˚52N** **Lon: 89˚50W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	61.5	42.8	52.2	86	1972	10	64.3	1974	11	1985	21	43.0	1978	430	17	.0	.0	27.7	@	4.9	.0
Feb	64.2	45.8	55.0	87	1972	26	60.5	1990	17	1996	5	44.6	1978	292	13	.0	.0	26.8	@	2.6	.0
Mar	71.0	52.0	61.5	89	1982	18	66.8	2000	22	1980	2	57.3	1996	152	43	.0	.0	30.9	.0	.4	.0
Apr	76.6	58.5	67.6	92	1970	22	72.7	1999	36	1973	11	63.8	1993	37	114	.0	.4	30.0	.0	.0	.0
May	83.5	66.4	75.0	96	1977	30	79.0	2000	47	1970	5	71.5	1976	1	310	.0	4.9	31.0	.0	.0	.0
Jun	88.2	71.6	79.9	99	1988	28	84.0	1998	54	1984	1	77.1	1974	0	447	.0	16.9	30.0	.0	.0	.0
Jul	89.5	73.5	81.5	100+	1969	2	84.6	1998	58	1967	16	78.6	1972	0	511	.1	23.9	31.0	.0	.0	.0
Aug	88.8	73.5	81.2	101	1980	22	84.9	1999	63	1989	10	78.4	1992	0	501	.1	22.3	31.0	.0	.0	.0
Sep	85.0	70.1	77.6	99	1980	10	80.5	1997	44	1967	30	73.9	1975	0	376	.0	10.6	30.0	.0	.0	.0
Oct	77.7	60.2	69.0	95	1977	1	73.5	1984	35	1989	20	62.9	1976	37	160	.0	1.2	31.0	.0	.0	.0
Nov	69.7	51.6	60.7	89+	1969	8	67.0	1985	26	1966	3	52.3	1976	190	60	.0	.0	29.7	.0	.4	.0
Dec	63.5	45.0	54.3	87	1971	16	62.8	1971	10	1989	23	46.2	1989	354	20	.0	.0	28.7	.1	3.4	.0
Ann	76.6	59.3	68.0	101	Aug 1980	22	84.9	Aug 1999	10	Dec 1989	23	43.0	Jan 1978	1493	2572	.2	80.2	357.8	.1	11.7	.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: 1966-2001

(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	5.05	4.32	3.90	1974	25	14.82	1991	.20	2000
Feb	5.06	4.83	8.80	1981	10	12.91	1981	.55	1999
Mar	6.05	4.92	6.20	1998	7	17.07	1998	1.69	1981
Apr	4.91	2.59	8.88	1988	2	24.06	1980	.22	1986
May	5.03	4.84	6.05	1978	3	13.04	1991	.00	1998
Jun	5.22	3.99	4.51	1988	22	13.70	1999	1.24	1977
Jul	6.73	6.00	4.00	1986	22	13.37	1991	1.85	1990
Aug	6.10	5.16	6.13	1984	2	15.52	1977	.88	1980
Sep	6.29	4.82	9.20	1998	11	24.74	1998	1.08	1995
Oct	2.95	2.24	8.40	1967	30	12.81	1985	.00+	2000
Nov	5.13	3.84	12.38	1989	7	24.00	1989	.79	1988
Dec	4.29	3.63	4.70	1967	10	8.91	1976	1.25	1998
Ann	62.81	63.34	12.38	Nov 1989	7	24.74	Sep 1998	.00+	Oct 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	8.1	6.5	3.3	1.8
Feb	7.0	5.4	3.0	1.6
Mar	7.0	5.8	3.6	2.2
Apr	5.6	4.4	2.4	1.4
May	6.7	5.5	2.8	1.7
Jun	9.1	7.4	3.6	1.9
Jul	11.1	8.8	4.3	2.0
Aug	10.9	8.4	3.6	1.8
Sep	8.8	7.4	4.0	2.0
Oct	4.7	3.4	1.5	1.1
Nov	6.7	5.4	3.0	1.7
Dec	6.4	5.5	3.1	1.3
Ann	92.1	73.9	38.2	20.5

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	.86	1.30	2.03	2.72	3.43	4.21	5.09	6.16	7.59	9.90	12.11
Feb	.71	1.12	1.85	2.55	3.29	4.10	5.03	6.18	7.73	10.26	12.70
Mar	1.85	2.42	3.28	4.02	4.73	5.48	6.29	7.25	8.49	10.43	12.22
Apr	.17	.39	.91	1.53	2.28	3.20	4.34	5.84	7.98	11.71	15.47
May	.51	1.11	1.94	2.67	3.41	4.21	5.12	6.21	7.66	10.00	12.24
Jun	.84	1.29	2.05	2.77	3.51	4.32	5.25	6.38	7.89	10.34	12.68
Jul	2.42	3.05	3.97	4.74	5.47	6.22	7.03	7.98	9.20	11.07	12.79
Aug	1.74	2.32	3.19	3.95	4.69	5.47	6.32	7.33	8.64	10.70	12.61
Sep	1.25	1.82	2.74	3.59	4.45	5.37	6.41	7.66	9.32	11.98	14.51
Oct	.00	.10	.45	.86	1.35	1.92	2.64	3.56	4.87	7.12	9.38
Nov	.69	1.11	1.84	2.56	3.31	4.13	5.09	6.27	7.86	10.47	12.98
Dec	1.49	1.90	2.49	2.98	3.46	3.95	4.48	5.10	5.90	7.13	8.26
Ann	39.52	43.82	49.44	53.78	57.69	61.52	65.51	69.96	75.42	83.45	90.49

\+ 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: 1966-2001
(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	#	.0	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	#	.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	#	1973	12	#	1973	0	0	0	0	0
Feb	#	1988	5	#	1988	#	1988	5	#	1988
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	#	1996	18	#+	1996	#+	1996	18	#+	1996
Ann	#+	Dec 1996	18	#+	Dec 1996	#+	Dec 1996	18	#+	Dec 1996

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	.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	.0	.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	3/13	3/08	3/03	2/26	2/21	2/15	2/06
32	3/09	3/01	2/23	2/18	2/13	2/09	2/03	1/28	1/18
28	2/25	2/16	2/09	2/03	1/27	1/20	1/09	0/00	0/00
24	2/08	1/27	1/18	1/08	12/28	0/00	0/00	0/00	0/00
20	1/16	1/01	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	11/07	11/15	11/21	11/26	12/01	12/06	12/11	12/17	12/26
32	11/18	11/29	12/06	12/12	12/18	12/24	12/31	1/08	1/20
28	12/06	12/14	12/21	12/27	1/02	1/09	1/19	0/00	0/00
24	12/20	12/29	1/06	1/13	1/23	0/00	0/00	0/00	0/00
20	1/05	1/20	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	302	292	285	279	273	267	261	254	244
32	>365	331	319	310	303	296	290	282	271
28	>365	>365	>365	>365	340	326	316	306	293
24	>365	>365	>365	>365	>365	>365	>365	342	323
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	430	292	152	37	1	0	0	0	0	37	190	354	1493
60	309	180	69	7	0	0	0	0	0	10	107	232	914
57	248	129	36	2	0	0	0	0	0	4	69	174	662
55	213	100	21	0	0	0	0	0	0	2	48	141	525
50	135	43	4	0	0	0	0	0	0	0	18	71	271
32	9	0	0	0	0	0	0	0	0	0	0	0	9

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	633	645	914	1066	1332	1437	1534	1524	1366	1146	860	690	13147
55	123	100	222	377	619	747	821	811	676	435	218	117	5266
57	96	73	175	318	557	687	759	749	616	375	178	89	4672
60	64	41	115	233	464	597	666	656	526	288	127	54	3831
65	17	13	43	114	310	447	511	501	376	160	60	20	2572
70	14	2	11	37	167	297	356	346	228	66	22	7	1553

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	435	492	715	867	1120	1235	1332	1320	1174	945	667	499	435	927	1642	2509	3629	4864	6196	7516	8690	9635	10302	10801
45	303	362	563	717	965	1085	1177	1165	1024	790	518	356	303	665	1228	1945	2910	3995	5172	6337	7361	8151	8669	9025
50	191	241	413	567	810	935	1022	1010	874	635	378	238	191	432	845	1412	2222	3157	4179	5189	6063	6698	7076	7314
55	106	146	275	417	655	785	867	855	724	481	250	138	106	252	527	944	1599	2384	3251	4106	4830	5311	5561	5699
60	53	72	158	274	500	635	712	700	574	330	146	72	53	125	283	557	1057	1692	2404	3104	3678	4008	4154	4226
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	256	294	447	571	791	872	930	932	833	634	415	292	256	550	997	1568	2359	3231	4161	5093	5926	6560	6975	7267

(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