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: BOGALUSA, LA **COOP ID: 160945**

Climate Division: LA 6 **NWS Call Sign:** **Elevation: 100 Feet** **Lat: 30˚47N** **Lon: 89˚52W**

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	60.3	38.3	49.3	86	1970	26	59.9	1974	4	1962	12	40.4	1977	503	0	.0	.0	25.2	.1	10.9	.0
Feb	64.3	40.9	52.6	86	1948	29	58.0	1976	12	1951	3	42.8	1978	353	6	.0	.0	25.1	.2	6.9	.0
Mar	71.4	47.9	59.7	91	1982	19	64.4	1997	20	1980	3	54.3	1996	194	28	.0	@	30.3	.0	1.5	.0
Apr	77.8	54.1	66.0	93+	1963	12	72.4	1999	31+	1987	4	61.0	1993	69	97	.0	.3	30.0	.0	.1	.0
May	84.7	62.5	73.6	100	1951	31	78.0	2000	42+	1954	4	70.2	1993	4	271	.0	5.9	31.0	.0	.0	.0
Jun	90.3	69.1	79.7	103	1963	15	84.1	1998	48	1984	1	77.6	1974	0	441	.1	17.9	30.0	.0	.0	.0
Jul	92.2	71.7	82.0	105+	1980	15	84.6	1980	57	1967	15	79.9	1994	0	524	1.0	25.1	31.0	.0	.0	.0
Aug	91.9	71.1	81.5	104	2000	31	85.4	1999	56	1956	23	77.5	1992	0	511	.6	24.3	31.0	.0	.0	.0
Sep	88.0	66.3	77.2	101+	1951	1	81.8	1972	40+	1967	29	73.4	1975	1	366	.2	14.2	30.0	.0	.0	.0
Oct	79.7	54.3	67.0	95+	1952	3	72.7	1984	27	1952	30	61.0	1987	68	131	.0	1.8	31.0	.0	.1	.0
Nov	70.1	46.3	58.2	88	1950	1	65.7	1985	21	1976	30	50.3	1976	239	35	.0	.0	29.4	.0	2.8	.0
Dec	62.9	40.0	51.5	84+	1951	9	61.2	1971	6	1989	24	41.6	1989	434	15	.0	.0	27.1	.1	9.7	.0
Ann	77.8	55.2	66.5	105+	Jul 1980	15	85.4	Aug 1999	4	Jan 1962	12	40.4	Jan 1977	1865	2425	1.9	89.5	351.1	.4	32.0	.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	6.18	6.04	5.00	1993	21	15.51	1998	.79	1981
Feb	5.63	5.77	7.28	1961	18	11.78	1981	.87	2000
Mar	6.57	6.46	5.08	1982	31	14.14	1980	3.11+	1986
Apr	5.40	4.43	5.06	1964	27	14.46	1983	.43	1999
May	5.59	4.70	5.07	1949	2	13.38	1980	.05	2000
Jun	5.62	5.64	9.15	2001	11	10.45	1997	1.38	1979
Jul	5.67	5.84	3.39	1972	14	9.41	1975	1.34	2000
Aug	4.94	4.02	4.10	1969	18	13.32	1987	1.22	1979
Sep	4.72	3.98	5.45	1957	18	11.59	1998	.52	1995
Oct	3.53	2.84	7.35	1999	9	10.47	1999	.00	1978
Nov	5.19	4.33	6.39	1961	14	13.57	2000	1.29	1996
Dec	5.01	4.22	9.78	1961	10	12.23	1982	1.23	1980
Ann	64.05	66.23	9.78	Dec 1961	10	15.51	Jan 1998	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.2	8.1	4.0	1.8
Feb	8.4	6.2	3.6	1.8
Mar	9.6	7.2	4.1	2.3
Apr	7.5	5.3	2.9	1.9
May	8.4	6.0	3.6	1.9
Jun	10.8	7.9	3.4	2.0
Jul	13.0	8.8	4.0	1.7
Aug	11.2	7.4	3.1	1.7
Sep	8.8	5.8	3.1	1.5
Oct	5.9	4.0	2.1	1.1
Nov	8.7	6.2	3.2	1.7
Dec	9.4	6.4	3.1	1.6
Ann	112.9	79.3	40.2	21.0

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	1.83	2.42	3.30	4.06	4.80	5.57	6.42	7.42	8.72	10.74	12.62
Feb	1.27	1.79	2.62	3.36	4.10	4.89	5.78	6.83	8.23	10.44	12.53
Mar	3.00	3.58	4.38	5.03	5.64	6.24	6.89	7.64	8.57	9.99	11.27
Apr	.56	.96	1.70	2.46	3.27	4.18	5.25	6.59	8.41	11.43	14.39
May	.75	1.21	2.01	2.78	3.60	4.50	5.55	6.83	8.56	11.40	14.14
Jun	1.61	2.14	2.95	3.65	4.33	5.04	5.83	6.75	7.95	9.84	11.59
Jul	2.30	2.82	3.56	4.17	4.74	5.32	5.94	6.67	7.58	8.98	10.25
Aug	1.25	1.72	2.44	3.07	3.70	4.36	5.10	5.97	7.12	8.92	10.61
Sep	.82	1.24	1.93	2.57	3.23	3.95	4.76	5.76	7.08	9.21	11.25
Oct	.20	.53	1.08	1.60	2.15	2.76	3.47	4.35	5.55	7.52	9.44
Nov	1.60	2.09	2.83	3.46	4.07	4.70	5.40	6.21	7.27	8.91	10.44
Dec	1.64	2.11	2.81	3.41	3.98	4.57	5.22	5.98	6.95	8.47	9.86
Ann	50.19	52.97	56.49	59.11	61.42	63.64	65.90	68.39	71.37	75.65	79.31

\+ 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	.2	.0	#	0	3.7	1973	12	3.7	1973	4	1973	12	#+	1982	.1	.1	@	.0	.0	@	@	.0	.0
Feb	.0	.0	#	0	.6	1988	6	.6	1988	1	1988	6	#	1988	@	.0	.0	.0	.0	@	.0	.0	.0
Mar	.1	.0	#	0	3.0	1993	13	3.0	1993	3	1993	13	#	1993	@	@	@	.0	.0	@	@	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	3.7	Jan 1973	12	3.7	Jan 1973	4	Jan 1973	12	#+	Mar 1993	.1	.1	@	.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	4/09	4/03	3/29	3/25	3/21	3/18	3/14	3/09	3/03
32	3/24	3/16	3/11	3/07	3/03	2/27	2/22	2/17	2/10
28	3/12	3/04	2/26	2/21	2/16	2/12	2/07	2/01	1/24
24	3/01	2/20	2/13	2/06	1/31	1/25	1/16	1/01	0/00
20	2/09	1/30	1/21	1/12	1/01	0/00	0/00	0/00	0/00
16	1/17	12/30	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	10/25	10/30	11/03	11/07	11/10	11/13	11/16	11/20	11/25
32	11/01	11/08	11/12	11/16	11/20	11/24	11/28	12/02	12/09
28	11/17	11/25	12/01	12/06	12/10	12/15	12/20	12/25	1/02
24	12/01	12/13	12/22	12/30	1/07	1/15	1/26	2/14	0/00
20	12/19	12/31	1/10	1/20	2/01	0/00	0/00	0/00	0/00
16	1/09	1/28	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	258	249	243	238	232	227	222	216	207
32	290	280	273	267	261	255	249	242	232
28	331	319	311	303	296	290	282	274	262
24	>365	>365	>365	>365	339	327	316	306	293
20	>365	>365	>365	>365	>365	>365	>365	350	324
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	503	353	194	69	4	0	0	0	1	68	239	434	1865
60	368	228	96	21	0	0	0	0	0	24	142	302	1181
57	297	165	54	8	0	0	0	0	0	11	97	235	867
55	255	131	34	4	0	0	0	0	0	6	71	197	698
50	167	63	8	0	0	0	0	0	0	1	28	116	383
32	12	0	0	0	0	0	0	0	0	0	0	3	15

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	548	577	857	1018	1290	1431	1547	1534	1355	1086	787	607	12637
55	78	64	178	332	577	741	834	821	665	379	168	88	4925
57	58	42	136	276	515	681	772	759	605	322	133	64	4363
60	36	21	84	199	422	591	679	666	515	242	88	38	3581
65	0	6	28	97	271	441	524	511	366	131	35	15	2425
70	0	0	6	33	138	291	369	356	223	54	12	3	1485

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	326	390	621	789	1050	1201	1306	1297	1124	847	557	383	326	716	1337	2126	3176	4377	5683	6980	8104	8951	9508	9891
45	213	267	471	639	895	1051	1151	1142	974	693	411	258	213	480	951	1590	2485	3536	4687	5829	6803	7496	7907	8165
50	126	167	328	490	740	901	996	987	824	538	287	159	126	293	621	1111	1851	2752	3748	4735	5559	6097	6384	6543
55	67	95	205	347	585	751	841	832	674	387	174	95	67	162	367	714	1299	2050	2891	3723	4397	4784	4958	5053
60	30	45	110	216	431	601	686	677	524	252	98	47	30	75	185	401	832	1433	2119	2796	3320	3572	3670	3717
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	209	248	390	515	721	826	898	891	774	564	357	246	209	457	847	1362	2083	2909	3807	4698	5472	6036	6393	6639

(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