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: MORGAN CITY, LA **COOP ID: 166394**

Climate Division: LA 8 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 29˚41N** **Lon: 91˚11W**

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	60.5	43.1	51.8	84+	1937	10	60.4	1974	12	1962	11	43.0	1977	428	4	.0	.0	26.3	.0	4.8	.0
Feb	63.7	45.9	54.8	86+	1932	16	59.5	1990	17	1951	3	45.2	1978	296	9	.0	.0	25.9	@	2.0	.0
Mar	69.7	52.7	61.2	88+	1945	17	65.2	1985	17	1996	10	54.5	1996	157	38	.0	.0	30.5	.0	.5	.0
Apr	75.7	59.0	67.4	92+	1955	30	71.7	1991	35+	1938	10	63.0	1983	40	110	.0	@	30.0	.0	.0	.0
May	82.0	66.9	74.5	96+	1933	17	77.1	2000	44	1945	6	71.0	1976	2	294	.0	.9	31.0	.0	.0	.0
Jun	86.7	72.5	79.6	101	1954	30	81.7	1998	55+	1930	1	77.4	1983	0	438	.0	9.9	30.0	.0	.0	.0
Jul	88.5	74.4	81.5	102	1980	6	83.4	1995	60	1970	4	79.7	1972	0	509	@	18.5	31.0	.0	.0	.0
Aug	88.4	74.0	81.2	100+	1944	10	84.0	1999	56	1956	23	78.9	1992	0	503	.0	18.7	31.0	.0	.0	.0
Sep	85.5	70.8	78.2	99+	1964	2	81.1	1986	46	1967	30	75.4	1979	0	395	.0	8.8	30.0	.0	.0	.0
Oct	78.7	61.2	70.0	97	1937	5	74.0	1984	35+	1955	31	61.2	1976	34	186	.0	.8	31.0	.0	.0	.0
Nov	70.4	52.2	61.3	91	1973	5	67.4	1985	22+	1940	15	53.0	1976	174	63	.0	@	29.7	.0	.2	.0
Dec	63.6	45.5	54.6	86	1931	13	63.2	1984	10	1989	23	44.6	1989	346	21	.0	.0	28.1	.1	2.8	.0
Ann	76.1	59.9	68.0	102	Jul 1980	6	84.0	Aug 1999	10	Dec 1989	23	43.0	Jan 1977	1477	2570	@	57.6	354.5	.1	10.3	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1930-2001

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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	5.81	4.24	5.75	1991	30	17.59	1998	1.09	1976
Feb	4.39	3.09	4.65	1959	25	12.30	1979	.46	1989
Mar	4.70	4.45	5.02	1951	29	10.37	1980	.91	1971
Apr	4.22	2.48	9.10	1980	13	15.50	1980	.26	1984
May	5.38	4.08	10.02	1995	9	18.82	1991	.19	2000
Jun	5.81	4.41	7.70	1997	18	15.96	1975	.42	1972
Jul	7.60	7.29	5.64	1954	29	17.54	1975	2.59	1997
Aug	7.40	7.07	5.20	1945	18	16.14	1975	1.95	1997
Sep	6.49	4.89	8.00	1948	13	18.00	1973	1.75	1995
Oct	3.66	3.25	7.11	1959	14	12.36	1985	.01	1978
Nov	5.07	4.36	6.47	2000	17	16.04	2000	.44	1999
Dec	4.95	4.59	6.20	1973	25	9.38	1982	1.45	1980
Ann	65.48	66.14	10.02	May 1995	9	18.82	May 1991	.01	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	7.5	3.5	1.7
Feb	8.5	5.4	2.7	1.4
Mar	8.4	5.7	3.1	1.7
Apr	6.3	4.0	2.0	1.4
May	7.9	5.4	2.9	1.6
Jun	10.9	7.5	3.5	1.6
Jul	14.5	10.2	5.0	2.2
Aug	14.6	10.4	5.3	2.1
Sep	11.2	8.3	3.8	1.8
Oct	6.4	4.1	2.4	1.2
Nov	8.4	5.5	3.3	1.7
Dec	8.7	5.8	3.0	1.5
Ann	116.4	79.8	40.5	19.9

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	1.03	1.54	2.39	3.18	3.99	4.87	5.87	7.09	8.70	11.31	13.80
Feb	.59	.94	1.57	2.18	2.82	3.53	4.35	5.36	6.73	8.96	11.11
Mar	1.18	1.62	2.31	2.91	3.51	4.14	4.84	5.68	6.77	8.50	10.11
Apr	.22	.46	.96	1.52	2.17	2.94	3.88	5.09	6.79	9.70	12.60
May	.50	.88	1.61	2.36	3.17	4.09	5.19	6.55	8.43	11.56	14.62
Jun	1.19	1.72	2.58	3.35	4.14	4.98	5.93	7.07	8.58	10.99	13.27
Jul	2.66	3.37	4.41	5.29	6.13	6.99	7.93	9.03	10.43	12.60	14.60
Aug	2.24	2.94	3.99	4.90	5.78	6.69	7.69	8.87	10.40	12.78	14.99
Sep	1.55	2.15	3.10	3.95	4.79	5.68	6.67	7.86	9.41	11.88	14.20
Oct	.43	.71	1.22	1.73	2.27	2.88	3.59	4.46	5.66	7.62	9.53
Nov	.66	1.06	1.78	2.49	3.23	4.06	5.01	6.19	7.79	10.41	12.94
Dec	1.43	1.90	2.61	3.22	3.82	4.45	5.14	5.95	7.01	8.67	10.21
Ann	43.72	47.83	53.15	57.22	60.87	64.41	68.09	72.18	77.17	84.45	90.79

\+ 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	#	.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	#	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	#	1988	15	#+	1988	0	0	0	0	0
Feb	#	1988	8	#+	1988	#	1988	8	#	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	1.0	1989	23	1.0	1989	1	1989	24	#	1989
Ann	1.0	Dec 1989	23	1.0	Dec 1989	1	Dec 1989	24	#+	Dec 1989

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
Ann	@	@	.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	.1	.0	.0	.0
Ann	.1	.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	3/24	3/16	3/09	3/04	2/27	2/22	2/17	2/10	2/01
32	3/03	2/21	2/14	2/07	2/01	1/25	1/17	1/04	0/00
28	2/22	2/11	2/02	1/24	1/15	1/02	0/00	0/00	0/00
24	2/09	1/21	12/26	0/00	0/00	0/00	0/00	0/00	0/00
20	1/22	12/22	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/28	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	11/17	11/23	11/28	12/02	12/06	12/09	12/13	12/18	12/25
32	11/28	12/05	12/10	12/15	12/19	12/23	12/29	1/06	0/00
28	12/10	12/21	12/30	1/07	1/16	1/27	0/00	0/00	0/00
24	12/29	1/09	1/24	0/00	0/00	0/00	0/00	0/00	0/00
20	1/02	1/17	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	310	300	293	287	281	275	269	262	252
32	>365	>365	349	330	320	312	304	295	283
28	>365	>365	>365	>365	>365	>365	345	324	304
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	428	296	157	40	2	0	0	0	0	34	174	346	1477
60	303	180	70	8	0	0	0	0	0	9	94	225	889
57	239	126	36	2	0	0	0	0	0	4	58	168	633
55	203	96	21	1	0	0	0	0	0	2	40	136	499
50	123	39	4	0	0	0	0	0	0	0	13	67	246
32	5	0	0	0	0	0	0	0	0	0	0	0	5

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	620	637	904	1060	1315	1428	1532	1526	1385	1176	879	698	13160
55	104	89	213	371	602	738	819	813	695	464	229	121	5258
57	78	63	165	312	540	678	757	751	635	404	187	92	4662
60	49	33	107	228	447	588	664	658	545	317	133	56	3825
65	4	9	38	110	294	438	509	503	395	186	63	21	2570
70	3	0	9	35	153	288	354	348	246	87	23	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	403	456	677	841	1085	1207	1308	1306	1168	947	655	477	403	859	1536	2377	3462	4669	5977	7283	8451	9398	10053	10530
45	275	322	524	691	930	1057	1153	1151	1018	792	507	337	275	597	1121	1812	2742	3799	4952	6103	7121	7913	8420	8757
50	167	206	378	541	775	907	998	996	868	638	367	216	167	373	751	1292	2067	2974	3972	4968	5836	6474	6841	7057
55	94	112	241	392	620	757	843	841	718	484	241	125	94	206	447	839	1459	2216	3059	3900	4618	5102	5343	5468
60	44	51	126	250	465	607	688	686	568	335	138	63	44	95	221	471	936	1543	2231	2917	3485	3820	3958	4021
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	229	258	402	545	769	874	931	930	832	635	402	277	229	487	889	1434	2203	3077	4008	4938	5770	6405	6807	7084

(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