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: MANY, LA **COOP ID: 165892**

Climate Division: LA 4 **NWS Call Sign:** **Elevation: 260 Feet** **Lat: 31˚34N** **Lon: 93˚29W**

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	57.5	34.3	45.9	82+	1972	23	52.4	1975	2	1962	12	36.5	1978	598	0	.0	.0	22.7	.7	15.6	.0
Feb	62.6	38.0	50.3	88	1986	20	57.2	1990	11	1996	4	39.9	1978	417	4	.0	.0	23.6	.5	10.4	.0
Mar	70.1	45.4	57.8	90+	1974	31	63.0	1974	15	1980	3	52.0	1996	245	20	.0	.1	29.6	.0	4.1	.0
Apr	76.7	52.0	64.4	94+	1987	20	70.6	1981	27+	1971	7	59.7	1997	92	73	.0	.3	29.9	.0	.6	.0
May	83.4	61.0	72.2	100	1998	31	76.5	1996	36	1960	13	68.1	1976	14	237	@	4.2	31.0	.0	.0	.0
Jun	89.4	68.0	78.7	101+	1963	14	83.9	1998	47	1984	1	75.4	1976	0	411	.1	16.9	30.0	.0	.0	.0
Jul	92.7	71.0	81.9	104+	1954	24	86.8	1998	51+	1967	15	78.1	1972	0	521	1.2	25.6	31.0	.0	.0	.0
Aug	92.4	69.6	81.0	106	1962	10	84.5	1980	48	1956	22	76.2	1992	0	496	1.5	24.0	31.0	.0	.0	.0
Sep	87.4	63.8	75.6	107	2000	2	82.4	1980	35	1967	29	71.1	1974	4	322	.7	12.8	30.0	.0	.0	.0
Oct	78.4	51.3	64.9	98	1963	14	69.3	1984	24+	1957	28	57.2	1976	88	84	.0	1.3	30.9	.0	.6	.0
Nov	67.7	43.0	55.4	89+	1955	13	62.5	1973	15	1959	29	47.1	1976	312	21	.0	.0	28.5	.0	5.9	.0
Dec	59.9	35.9	47.9	85	1984	30	58.9	1984	3	1989	23	38.8	2000	538	8	.0	.0	25.4	.4	14.1	.0
Ann	76.5	52.8	64.7	107	Sep 2000	2	86.8	Jul 1998	2	Jan 1962	12	36.5	Jan 1978	2308	2197	3.5	85.2	343.6	1.6	51.3	.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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1953-2001

(3) Derived from 1971-2000 serially complete daily data

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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	5.73	4.75	7.05	1999	29	14.59	1974	.34	2000
Feb	4.25	3.34	6.25	1966	10	8.30	1997	.73	2000
Mar	5.09	5.16	4.36	1979	3	9.59	1973	1.34	1996
Apr	4.08	3.67	9.13	1968	9	9.64	1991	.58	1971
May	5.54	5.29	5.25	1969	8	13.34	1975	.04	1998
Jun	4.79	3.74	5.25	1989	28	17.24	1989	.99	1974
Jul	3.78	3.19	6.11	1972	4	11.95	1972	.51	1998
Aug	3.87	3.75	4.80	1958	23	8.88	1977	.10	1999
Sep	3.23	3.03	8.93	1961	12	9.50	1998	.73	1994
Oct	4.14	3.14	4.30	1994	17	11.31	1984	.04	2000
Nov	4.58	3.86	5.81	2001	28	12.73	2000	.78	1999
Dec	5.71	5.47	4.24	1983	11	12.95	1982	1.02	1980
Ann	54.79	55.44	9.13	Apr 1968	9	17.24	Jun 1989	.04+	Oct 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.2	3.4	1.9
Feb	8.2	5.8	2.8	1.4
Mar	8.3	6.4	3.2	1.6
Apr	6.9	4.9	2.6	1.2
May	8.7	6.6	3.7	1.9
Jun	8.4	6.1	2.8	1.3
Jul	8.3	5.9	2.4	1.0
Aug	7.5	5.6	2.4	1.2
Sep	6.9	5.1	2.2	1.0
Oct	6.2	4.5	2.5	1.6
Nov	8.4	5.9	3.0	1.6
Dec	10.2	7.1	3.9	1.9
Ann	98.5	71.1	34.9	17.6

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	.92	1.42	2.25	3.04	3.85	4.74	5.76	7.00	8.65	11.34	13.92
Feb	.97	1.37	1.99	2.55	3.10	3.69	4.36	5.15	6.19	7.85	9.41
Mar	1.95	2.42	3.10	3.66	4.20	4.74	5.33	6.01	6.88	8.22	9.44
Apr	.63	.98	1.57	2.13	2.72	3.35	4.09	4.98	6.18	8.13	10.00
May	.75	1.20	1.99	2.76	3.57	4.47	5.50	6.77	8.49	11.30	14.02
Jun	1.03	1.47	2.17	2.81	3.45	4.13	4.90	5.82	7.03	8.97	10.80
Jul	.73	1.07	1.63	2.14	2.65	3.21	3.84	4.60	5.60	7.22	8.75
Aug	.46	.76	1.30	1.84	2.42	3.06	3.80	4.73	5.99	8.06	10.07
Sep	.98	1.29	1.75	2.14	2.53	2.92	3.36	3.87	4.54	5.57	6.53
Oct	.56	.89	1.49	2.06	2.67	3.34	4.11	5.06	6.35	8.45	10.49
Nov	1.19	1.63	2.29	2.88	3.45	4.06	4.73	5.53	6.57	8.22	9.76
Dec	2.08	2.62	3.39	4.04	4.65	5.28	5.97	6.77	7.78	9.35	10.79
Ann	40.96	43.69	47.16	49.77	52.08	54.31	56.59	59.11	62.14	66.52	70.28

\+ 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: 1953-2001
(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	.4	.0	#	0
Feb	#	.0	#	0
Mar	#	.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
Dec	.0	.0	#	0
Ann	.4	.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	5.0	1977	31	5.0	1977	5	1977	31	#+	1997
Feb	#	1989	7	#+	1989	#+	1988	12	#+	1988
Mar	#	1978	4	#	1978	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	#	1980	27	#	1980	#	1980	27	#	1980
Dec	.5	1996	16	.5	1996	#	1996	16	#	1996
Ann	5.0	Jan 1977	31	5.0	Jan 1977	5	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	.2	.2	.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	.3	.2	.1	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	@	.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	.1	.1	@	.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	4/19	4/14	4/11	4/08	4/05	4/03	3/31	3/27	3/23
32	4/12	4/06	4/01	3/29	3/25	3/21	3/17	3/13	3/07
28	3/30	3/23	3/18	3/14	3/10	3/06	3/02	2/25	2/18
24	3/19	3/07	2/27	2/19	2/13	2/06	1/30	1/21	1/10
20	2/28	2/17	2/09	2/02	1/25	1/18	1/09	12/26	0/00
16	2/11	1/30	1/21	1/11	12/31	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	10/07	10/12	10/16	10/19	10/22	10/25	10/28	10/31	11/05
32	10/21	10/28	11/01	11/05	11/08	11/12	11/16	11/20	11/26
28	10/31	11/07	11/11	11/15	11/19	11/23	11/27	12/01	12/08
24	11/14	11/21	11/26	11/30	12/04	12/08	12/12	12/17	12/24
20	11/24	12/05	12/14	12/21	12/29	1/06	1/16	2/03	0/00
16	12/12	12/23	1/02	1/11	1/24	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	219	212	207	203	199	195	191	186	179
32	255	246	239	233	228	222	216	210	200
28	283	273	265	259	253	248	241	234	224
24	330	315	306	298	291	284	276	267	255
20	>365	>365	>365	345	329	320	313	304	294
16	>365	>365	>365	>365	>365	>365	351	336	323

***** 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	598	417	245	92	14	0	0	0	4	88	312	538	2308
60	453	289	135	31	2	0	0	0	0	32	199	396	1537
57	372	221	87	13	0	0	0	0	0	15	146	318	1172
55	321	181	60	7	0	0	0	0	0	8	115	271	963
50	215	102	20	0	0	0	0	0	0	1	55	174	567
32	17	1	0	0	0	0	0	0	0	0	0	10	28

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	449	513	799	971	1246	1401	1544	1519	1308	1018	699	502	11969
55	40	48	146	288	533	711	831	806	618	313	124	50	4508
57	28	32	110	234	471	651	769	744	558	258	95	35	3985
60	17	16	66	162	380	561	676	651	468	183	59	20	3259
65	0	4	20	73	237	411	521	496	322	84	21	8	2197
70	0	0	4	22	121	263	366	342	191	27	6	0	1342

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	246	329	557	728	997	1162	1293	1271	1069	774	468	288	246	575	1132	1860	2857	4019	5312	6583	7652	8426	8894	9182
45	152	222	411	579	842	1012	1138	1116	919	619	336	180	152	374	785	1364	2206	3218	4356	5472	6391	7010	7346	7526
50	86	134	277	432	687	862	983	961	769	466	220	108	86	220	497	929	1616	2478	3461	4422	5191	5657	5877	5985
55	44	73	167	295	532	712	828	806	619	322	131	57	44	117	284	579	1111	1823	2651	3457	4076	4398	4529	4586
60	17	33	86	174	380	562	673	651	470	195	64	27	17	50	136	310	690	1252	1925	2576	3046	3241	3305	3332
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	169	225	361	479	678	801	878	861	726	518	309	199	169	394	755	1234	1912	2713	3591	4452	5178	5696	6005	6204

(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