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: MONROE RGNL AP, LA **COOP ID: 166303**

Climate Division: LA 2 **NWS Call Sign: MLU** **Elevation: 133 Feet** **Lat: 32˚31N** **Lon: 92˚02W**

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	56.0	35.9	46.0	82+	1935	19	52.8	1990	-1	1962	12	36.8	1977	597	0	.0	.0	20.4	1.3	13.2	.0
Feb	61.9	40.0	51.0	86+	1932	9	57.9	1976	-2	1951	2	38.9	1978	400	6	.0	.0	22.8	.6	7.4	.0
Mar	69.7	47.1	58.4	91+	1935	27	65.1	1974	18	1996	9	52.4	1978	233	28	.0	.1	29.8	.0	1.6	.0
Apr	77.7	54.1	65.9	97	1931	16	72.7	1981	32+	1987	4	60.3	1983	74	100	.0	.9	30.0	.0	.1	.0
May	85.2	63.4	74.3	104	1998	31	78.6	1998	43+	1954	5	69.7	1976	8	296	@	6.6	31.0	.0	.0	.0
Jun	91.9	70.2	81.1	108	1931	26	85.1	1998	51	1984	1	77.9	1976	0	481	.7	18.8	30.0	.0	.0	.0
Jul	94.3	72.7	83.5	108	1930	29	88.6	1980	54	1970	6	81.0	1972	0	574	1.8	25.0	31.0	.0	.0	.0
Aug	93.8	71.1	82.5	108	1935	9	86.4	1980	51	1968	28	77.3	1992	0	540	1.7	23.5	31.0	.0	.0	.0
Sep	88.6	65.0	76.8	107	2000	1	83.1	1980	35	1967	29	71.1	1974	3	358	.4	12.9	30.0	.0	.0	.0
Oct	79.6	53.0	66.3	98	1954	6	71.0	1973	29+	1952	29	60.3	1976	68	108	.0	1.8	30.9	.0	.1	.0
Nov	67.7	44.6	56.2	90	1971	2	62.3	1985	19+	1969	15	49.9	1976	282	16	.0	@	28.1	.0	3.8	.0
Dec	58.8	38.0	48.4	83+	1982	2	59.4	1984	5+	1983	25	38.2	2000	525	10	.0	.0	23.2	.4	10.8	.0
Ann	77.1	54.6	65.9	108+	Aug 1935	9	88.6	Jul 1980	-2	Feb 1951	2	36.8	Jan 1977	2190	2517	4.6	89.6	338.2	2.3	37.0	.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: 1930-2001

(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	5.46	4.31	4.18	1951	2	12.45	1990	.62	1986
Feb	4.34	4.03	4.46	1966	9	10.29	1987	1.18	2000
Mar	5.53	5.39	5.48	1955	21	12.50	1980	1.49	1978
Apr	4.77	4.26	6.73	1991	28	18.52	1991	.77	1989
May	5.47	4.58	5.96	1989	4	16.30	1989	.29	1988
Jun	4.47	4.48	6.68	1950	21	11.45	1989	.60	1988
Jul	3.50	3.06	6.12	1933	26	10.80	1975	.46	1984
Aug	2.84	2.62	4.78	1984	20	7.72	1984	.20	1980
Sep	3.37	2.17	7.23	1978	15	12.21	1978	.66	1984
Oct	3.91	3.39	4.62	1982	12	10.84	1991	.37	1971
Nov	4.45	3.85	7.34	1987	16	10.88	1987	.98	1999
Dec	5.23	5.05	4.66	1948	15	16.07	1982	.75	1980
Ann	53.34	50.65	7.34	Nov 1987	16	18.52	Apr 1991	.20	Aug 1980

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	7.1	3.4	1.7
Feb	8.0	5.9	2.9	1.7
Mar	9.0	6.7	3.9	1.9
Apr	7.9	5.7	2.9	1.6
May	9.0	6.5	3.5	1.7
Jun	8.6	6.4	3.1	1.4
Jul	7.7	5.5	2.5	.7
Aug	6.6	4.2	1.9	.7
Sep	6.5	4.4	2.0	.7
Oct	6.8	4.8	2.3	1.2
Nov	7.7	5.9	2.9	1.3
Dec	9.3	6.2	3.3	1.7
Ann	97.1	69.3	34.6	16.3

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	1.28	1.79	2.59	3.30	4.02	4.77	5.61	6.62	7.94	10.04	12.01
Feb	1.23	1.65	2.27	2.81	3.34	3.89	4.50	5.22	6.15	7.61	8.98
Mar	2.10	2.62	3.35	3.97	4.55	5.14	5.79	6.53	7.48	8.95	10.28
Apr	.85	1.27	1.97	2.62	3.28	4.01	4.83	5.82	7.15	9.29	11.33
May	.73	1.18	1.96	2.72	3.52	4.40	5.42	6.68	8.38	11.16	13.85
Jun	.94	1.35	2.01	2.60	3.20	3.84	4.56	5.43	6.57	8.40	10.12
Jul	.63	.94	1.46	1.93	2.42	2.95	3.54	4.27	5.23	6.78	8.26
Aug	.41	.64	1.05	1.44	1.86	2.31	2.83	3.47	4.33	5.73	7.08
Sep	.60	.90	1.39	1.85	2.32	2.82	3.40	4.10	5.04	6.54	7.98
Oct	.45	.74	1.29	1.84	2.42	3.07	3.83	4.78	6.06	8.19	10.25
Nov	1.14	1.56	2.21	2.78	3.34	3.93	4.59	5.37	6.39	8.01	9.51
Dec	1.23	1.71	2.48	3.16	3.84	4.56	5.37	6.34	7.60	9.61	11.50
Ann	36.94	40.08	44.12	47.20	49.95	52.61	55.36	58.41	62.11	67.51	72.18

\+ 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)

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	.8	.0	#	0	4.3	1985	3	4.5	1982	4+	1982	14	#	1988	.4	.3	.2	.0	.0	.3	.2	.0	.0
Feb	.2	.0	#	0	1.4	1985	1	1.7	1985	2+	1985	27	#	1996	.3	.1	.0	.0	.0	.2	.0	.0	.0
Mar	.0	.0	#	0	1.0	1993	12	1.0	1993	1	1993	12	#	1993	.0	.0	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1987	2	#	1987	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	#	1997	.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	#	1980	26	#+	1980	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.1	.0	#	0	1.0	1997	14	1.0	1997	1	1997	14	#	1997	.2	.0	.0	.0	.0	@	.0	.0	.0
Ann	1.1	.0	N/A	N/A	4.3	Jan 1985	3	4.5	Jan 1982	4+	Jan 1982	14	#+	Dec 1997	.9	.4	.2	.0	.0	.5	.2	.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	3/30	3/27	3/24	3/20	3/17	3/13	3/07
32	3/21	3/15	3/10	3/06	3/03	2/27	2/24	2/19	2/13
28	3/10	3/03	2/26	2/21	2/17	2/13	2/09	2/04	1/28
24	3/01	2/18	2/11	2/05	1/29	1/23	1/16	1/07	12/22
20	2/15	2/03	1/25	1/16	1/07	12/27	0/00	0/00	0/00
16	1/27	1/16	1/05	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	10/14	10/21	10/25	10/29	11/02	11/06	11/10	11/14	11/21
32	10/29	11/04	11/08	11/11	11/15	11/18	11/22	11/26	12/01
28	11/11	11/17	11/21	11/25	11/29	12/02	12/06	12/10	12/16
24	11/29	12/07	12/13	12/19	12/24	12/29	1/04	1/11	1/25
20	12/12	12/18	12/23	12/27	1/01	1/09	0/00	0/00	0/00
16	12/30	1/12	1/25	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	245	238	232	227	223	218	214	208	200
32	282	273	267	261	256	251	246	239	230
28	313	303	295	289	284	278	272	264	254
24	>365	>365	346	334	325	317	308	299	287
20	>365	>365	>365	>365	>365	357	337	324	310
16	>365	>365	>365	>365	>365	>365	>365	>365	358

***** 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	597	400	233	74	8	0	0	0	3	68	282	525	2190
60	452	273	130	24	1	0	0	0	0	21	168	385	1454
57	370	208	84	10	0	0	0	0	0	8	116	310	1106
55	320	170	59	5	0	0	0	0	0	4	87	264	909
50	214	94	20	0	0	0	0	0	0	0	36	171	535
32	17	1	0	0	0	0	0	0	0	0	0	11	29

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	450	532	818	1016	1312	1471	1597	1563	1345	1064	724	518	12410
55	40	57	164	331	599	781	884	850	655	354	121	59	4895
57	28	38	127	276	537	721	822	788	595	297	90	42	4361
60	17	20	80	200	444	631	729	695	505	217	52	25	3615
65	0	6	28	100	296	481	574	540	358	108	16	10	2517
70	0	0	7	37	167	332	419	385	222	41	2	0	1612

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	239	338	558	764	1051	1219	1331	1300	1092	803	480	287	239	577	1135	1899	2950	4169	5500	6800	7892	8695	9175	9462
45	146	225	415	614	896	1069	1176	1145	942	649	340	176	146	371	786	1400	2296	3365	4541	5686	6628	7277	7617	7793
50	81	137	279	467	741	919	1021	990	792	495	222	98	81	218	497	964	1705	2624	3645	4635	5427	5922	6144	6242
55	38	72	170	326	586	769	866	835	642	346	127	52	38	110	280	606	1192	1961	2827	3662	4304	4650	4777	4829
60	16	29	86	199	432	619	711	680	493	214	65	23	16	45	131	330	762	1381	2092	2772	3265	3479	3544	3567
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	140	199	339	490	715	846	916	890	744	524	290	170	140	339	678	1168	1883	2729	3645	4535	5279	5803	6093	6263

(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