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: RUSTON LA TECH, LA **COOP ID: 168067**

Climate Division: LA 2 **NWS Call Sign:** **Elevation: 280 Feet** **Lat: 32˚31N** **Lon: 92˚39W**

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	55.4	32.9	44.2	84+	1943	23	52.8	1998	-4	1962	12	33.7	1977	646	0	.0	.0	21.1	.9	15.7	.0
Feb	60.8	36.4	48.6	87+	1932	28	55.8	1976	-3	1951	2	38.3	1978	460	1	.0	.0	22.8	.6	10.3	.0
Mar	68.6	43.7	56.2	91	1946	30	61.4	1974	14+	1943	3	51.0	1996	288	12	.0	@	29.3	@	3.9	.0
Apr	75.9	50.7	63.3	94	1987	21	69.0	1981	28	1987	4	58.5	1983	106	56	.0	.3	29.9	.0	.6	.0
May	82.8	59.8	71.3	102	1934	31	75.1	1987	38	1960	12	66.9	1976	14	209	.0	3.7	31.0	.0	.0	.0
Jun	89.7	66.9	78.3	106	1936	20	83.5	1998	50+	1946	5	74.6	1974	0	398	.6	17.1	30.0	.0	.0	.0
Jul	92.9	69.8	81.4	107+	1930	13	85.5	1998	55+	1947	23	77.9	1972	0	507	2.2	25.2	31.0	.0	.0	.0
Aug	93.0	68.7	80.9	109	1999	20	85.1	1999	49	1986	31	76.7	1992	0	490	2.7	24.3	31.0	.0	.0	.0
Sep	87.1	62.8	75.0	106+	1947	1	80.8	1980	37	1967	29	68.5	1974	6	305	.7	12.8	30.0	.0	.0	.0
Oct	77.5	51.2	64.4	100	1938	1	68.5	1973	22	1932	10	57.1	1976	94	75	.0	1.2	30.9	.0	.2	.0
Nov	66.5	42.4	54.5	88	1965	27	59.6	1985	17	1959	18	46.5	1976	327	10	.0	.0	28.2	.0	4.8	.0
Dec	57.9	35.1	46.5	84	1931	13	56.9	1984	0	1989	23	37.4	1989	576	3	.0	.0	23.4	.7	12.7	@
Ann	75.7	51.7	63.7	109	Aug 1999	20	85.5	Jul 1998	-4	Jan 1962	12	33.7	Jan 1977	2517	2066	6.2	84.6	338.6	2.2	48.2	@

\+ 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

(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	5.66	4.54	3.98	1999	2	14.69	1999	.81	1986
Feb	4.82	4.72	8.61	1966	10	11.46	1987	.48	1996
Mar	5.25	5.55	4.20+	1934	25	9.02	1973	1.70	1996
Apr	4.71	3.96	6.27	1953	29	16.64	1991	.41	1987
May	5.52	4.38	11.84	1989	5	21.40	1989	.99	1982
Jun	4.39	4.05	4.53	1950	21	12.47	1989	.54	1988
Jul	3.98	3.60	8.35	1933	25	8.41	1971	.80	1983
Aug	2.93	2.64	5.50	1944	31	6.31	1984	.46	1999
Sep	3.53	2.57	5.11	1958	20	9.25	1996	1.02	1976
Oct	4.07	3.67	9.82	1941	30	11.05	1984	.64	1983
Nov	4.74	4.45	4.88	1946	10	11.66	1986	1.12	1999
Dec	5.43	4.77	7.73	1944	31	18.77	1982	.53	1980
Ann	55.03	53.89	11.84	May 1989	5	21.40	May 1989	.41	Apr 1987

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.9	7.8	3.6	1.9
Feb	8.6	6.2	3.1	1.7
Mar	9.9	7.1	3.3	1.8
Apr	8.0	5.6	3.1	1.6
May	9.1	6.4	3.5	1.8
Jun	8.9	6.2	3.0	1.5
Jul	8.6	6.2	2.8	1.1
Aug	7.3	5.0	1.9	.9
Sep	6.5	4.6	2.4	1.2
Oct	7.4	5.2	2.6	1.5
Nov	9.3	6.7	3.2	1.6
Dec	10.0	7.0	3.5	1.8
Ann	104.5	74.0	36.0	18.4

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	1.36	1.89	2.71	3.45	4.18	4.96	5.82	6.85	8.21	10.35	12.36
Feb	1.13	1.58	2.28	2.91	3.54	4.21	4.95	5.84	7.00	8.85	10.59
Mar	2.22	2.70	3.37	3.92	4.43	4.95	5.51	6.15	6.96	8.20	9.33
Apr	.88	1.30	1.99	2.63	3.28	3.98	4.78	5.74	7.02	9.07	11.03
May	1.07	1.57	2.37	3.12	3.87	4.69	5.61	6.72	8.19	10.55	12.79
Jun	1.01	1.42	2.06	2.64	3.21	3.82	4.51	5.33	6.40	8.10	9.71
Jul	.93	1.30	1.88	2.40	2.92	3.47	4.09	4.83	5.80	7.33	8.78
Aug	.71	.98	1.41	1.79	2.17	2.57	3.01	3.54	4.24	5.34	6.37
Sep	.82	1.15	1.67	2.13	2.59	3.08	3.63	4.28	5.14	6.50	7.78
Oct	.71	1.07	1.66	2.22	2.79	3.41	4.11	4.96	6.10	7.94	9.69
Nov	1.67	2.12	2.77	3.31	3.83	4.37	4.95	5.63	6.50	7.84	9.08
Dec	1.33	1.84	2.63	3.33	4.03	4.77	5.60	6.58	7.86	9.90	11.81
Ann	40.07	42.99	46.72	49.55	52.05	54.46	56.95	59.69	63.01	67.81	71.95

\+ 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

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(2) Derived from station's available digital record: 1930-2001
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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	1.0	.0	#	0
Feb	.1	.0	#	0
Mar	.0	.0	#	0
Apr	#	.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	.1	.0	#	0
Ann	1.2	.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	4.0	1985	3	4.3	1975	6	1982	13	#+	1992
Feb	1.0	1985	1	1.0	1988	1+	1988	13	#+	1988
Mar	.0	0	0	.0	0	#	1993	12	#	1993
Apr	#	1987	3	#	1987	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	#	2000	19	#+	2000	#	1980	27	#	1980
Dec	.4	1973	20	.6	1973	2	1983	17	#+	2000
Ann	4.0	Jan 1985	3	4.3	Jan 1975	6	Jan 1982	13	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.4	.3	.1	.0	.0
Feb	.2	.1	.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	.2	.0	.0	.0	.0
Ann	.8	.4	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.2	.1	.0	.0
Feb	.1	.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	.3	.1	.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	4/17	4/12	4/09	4/06	4/03	3/31	3/28	3/25	3/20
32	4/08	4/02	3/28	3/24	3/20	3/17	3/13	3/08	3/01
28	3/30	3/19	3/11	3/04	2/26	2/20	2/13	2/05	1/25
24	3/14	3/03	2/22	2/16	2/09	2/02	1/27	1/18	1/07
20	2/27	2/17	2/09	2/03	1/27	1/21	1/13	12/31	0/00
16	2/06	1/27	1/19	1/12	1/04	12/25	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	10/17	10/22	10/26	10/30	11/02	11/06	11/09	11/13	11/19
32	10/28	11/03	11/07	11/10	11/13	11/17	11/20	11/24	11/30
28	11/04	11/11	11/16	11/21	11/25	11/29	12/03	12/08	12/15
24	11/21	11/27	12/02	12/06	12/09	12/13	12/16	12/21	12/27
20	11/27	12/09	12/17	12/25	1/01	1/09	1/19	2/07	0/00
16	12/17	12/26	1/02	1/08	1/16	1/26	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	236	228	222	217	213	208	203	197	189
32	265	255	249	243	237	232	226	219	209
28	300	288	280	274	268	262	256	248	238
24	336	322	314	307	300	294	287	279	268
20	>365	>365	>365	346	333	324	315	307	296
16	>365	>365	>365	>365	>365	>365	>365	343	324

***** 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	646	460	288	106	14	0	0	0	6	94	327	576	2517
60	503	330	166	38	2	0	0	0	0	33	203	433	1708
57	418	257	110	16	0	0	0	0	0	14	144	352	1311
55	365	213	80	8	0	0	0	0	0	7	111	301	1085
50	247	125	28	1	0	0	0	0	0	1	50	196	648
32	23	3	0	0	0	0	0	0	0	0	0	13	39

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	399	468	747	940	1218	1388	1530	1513	1289	1004	673	462	11631
55	28	34	114	258	505	698	817	800	599	298	94	38	4283
57	20	22	82	206	443	638	755	738	539	243	67	26	3779
60	11	11	45	138	352	548	662	645	449	169	36	15	3081
65	0	1	12	56	209	398	507	490	305	75	10	3	2066
70	0	0	1	14	97	251	352	336	177	23	0	0	1251

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	216	308	525	716	989	1168	1301	1285	1069	777	461	268	216	524	1049	1765	2754	3922	5223	6508	7577	8354	8815	9083
45	129	201	383	566	834	1018	1146	1130	919	623	324	161	129	330	713	1279	2113	3131	4277	5407	6326	6949	7273	7434
50	65	117	250	421	679	868	991	975	769	473	213	91	65	182	432	853	1532	2400	3391	4366	5135	5608	5821	5912
55	32	58	144	283	524	718	836	820	619	324	123	45	32	90	234	517	1041	1759	2595	3415	4034	4358	4481	4526
60	12	22	68	164	371	568	681	665	471	197	59	17	12	34	102	266	637	1205	1886	2551	3022	3219	3278	3295
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	142	197	329	462	665	801	885	864	721	504	284	170	142	339	668	1130	1795	2596	3481	4345	5066	5570	5854	6024

(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