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: FRANKLIN 3 NW, LA **COOP ID: 163313**

Climate Division: LA 8 **NWS Call Sign:** **Elevation: 12 Feet** **Lat: 29˚49N** **Lon: 91˚33W**

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	61.0	42.7	51.9	82+	1952	21	60.9	1974	12	1982	11	43.0	1977	430	9	.0	.0	26.5	.0	5.2	.0
Feb	64.4	45.7	55.1	90	1949	22	61.1	1999	0	1953	28	45.9	1978	290	11	.0	.0	26.1	.0	2.5	.0
Mar	70.8	51.7	61.3	94+	1948	21	65.8	1974	22	1980	3	56.5	1983	154	37	.0	.0	30.6	.0	.7	.0
Apr	76.5	57.9	67.2	95+	1948	18	71.8	1999	34+	1971	7	62.5	1983	42	108	.0	.1	30.0	.0	.0	.0
May	83.0	66.1	74.6	96	1956	20	77.4	2000	43	1952	12	71.6	1976	1	297	.0	2.0	31.0	.0	.0	.0
Jun	87.6	71.7	79.7	100	1954	30	82.2	1998	54	1966	2	77.2+	1983	0	439	.0	11.5	30.0	.0	.0	.0
Jul	89.2	73.5	81.4	100	1981	14	83.7	1998	60	1984	18	79.6	1976	0	507	@	19.3	31.0	.0	.0	.0
Aug	89.1	73.0	81.1	100	1962	8	83.4	1999	59+	1956	22	78.8	1992	0	498	.0	18.9	31.0	.0	.0	.0
Sep	85.7	69.1	77.4	98+	1954	10	80.9	1986	44	1967	29	73.2	1975	0	373	.0	9.4	30.0	.0	.0	.0
Oct	78.6	58.6	68.6	93+	1953	1	73.4	1984	31	1952	30	60.9	1976	47	158	.0	.6	31.0	.0	.0	.0
Nov	70.2	50.3	60.3	89+	1958	10	66.7	1985	23	1950	25	50.8	1976	199	55	.0	.0	29.5	.0	.8	.0
Dec	63.6	44.6	54.1	84	1971	16	63.3	1984	10	1989	23	45.3	1989	359	20	.0	.0	28.3	.1	3.6	.0
Ann	76.6	58.7	67.7	100+	Jul 1981	14	83.7	Jul 1998	0	Feb 1953	28	43.0	Jan 1977	1522	2512	@	61.8	355.0	.1	12.8	.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	5.43	4.51	3.92	1998	6	15.85	1998	1.17	1981
Feb	3.92	3.57	5.25	1966	12	12.55	1979	.56	1989
Mar	4.73	4.03	4.55	1988	30	13.45	1980	.89	1971
Apr	5.09	4.27	6.70	1980	13	14.46	1980	.09	1999
May	4.92	5.07	6.74	1956	28	12.99	1980	.09	2000
Jun	7.06	6.09	6.41	2001	6	18.31	1989	1.15	1972
Jul	7.37	7.71	11.55	1954	29	12.26	1989	1.99	1983
Aug	7.76	7.27	8.51	1984	3	18.02	1988	2.33	1994
Sep	5.85	4.93	5.70	1973	5	16.41	1973	.91	1987
Oct	3.72	3.01	7.23	1964	4	9.84	1999	.02	1978
Nov	4.46	4.02	6.80	1961	14	12.26	2000	.52	1985
Dec	4.82	4.33	4.60	1982	3	13.07	1982	.92	1991
Ann	65.13	64.72	11.55	Jul 1954	29	18.31	Jun 1989	.02	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	7.5	3.6	1.7
Feb	8.3	5.2	2.6	1.3
Mar	8.3	5.8	3.0	1.7
Apr	6.5	4.4	2.6	1.7
May	8.2	5.6	3.0	1.7
Jun	11.5	8.7	4.5	2.4
Jul	14.7	11.1	5.2	2.5
Aug	14.3	10.1	5.3	2.4
Sep	10.9	7.5	4.0	2.0
Oct	6.1	4.4	2.2	1.3
Nov	8.1	5.5	2.6	1.4
Dec	9.2	6.2	3.0	1.6
Ann	116.5	82.0	41.6	21.7

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	1.33	1.84	2.63	3.34	4.03	4.77	5.59	6.57	7.85	9.88	11.79
Feb	.62	.96	1.53	2.07	2.63	3.24	3.94	4.79	5.93	7.79	9.57
Mar	.92	1.35	2.05	2.68	3.33	4.03	4.81	5.76	7.02	9.03	10.95
Apr	.24	.50	1.09	1.76	2.55	3.48	4.63	6.11	8.21	11.82	15.43
May	.68	1.08	1.78	2.47	3.18	3.97	4.89	6.01	7.52	10.00	12.38
Jun	1.66	2.32	3.35	4.28	5.19	6.17	7.26	8.55	10.26	12.96	15.50
Jul	3.29	3.95	4.86	5.60	6.29	6.99	7.73	8.59	9.66	11.30	12.77
Aug	2.64	3.38	4.45	5.35	6.22	7.12	8.09	9.23	10.70	12.96	15.05
Sep	1.74	2.29	3.13	3.85	4.55	5.27	6.07	7.02	8.24	10.15	11.92
Oct	.37	.65	1.16	1.67	2.23	2.87	3.61	4.54	5.81	7.93	9.99
Nov	.75	1.14	1.79	2.40	3.03	3.72	4.50	5.45	6.71	8.76	10.72
Dec	1.42	1.88	2.57	3.16	3.74	4.34	5.00	5.78	6.79	8.37	9.84
Ann	49.14	52.31	56.32	59.35	62.02	64.58	67.22	70.11	73.61	78.64	82.96

\+ 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

Complete documentation available from:
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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	.1	.0	0	0
Ann	.1	.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	1973	11	.5	1973	1	1973	11	#	1973
Feb	#	1988	7	#+	1988	#	1988	7	#	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	2.5	1989	22	2.5	1989	0	0	0	0	0
Ann	2.5	Dec 1989	22	2.5	Dec 1989	1	Jan 1973	11	#+	Feb 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	@	.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
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	@	.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	3/30	3/21	3/15	3/10	3/05	2/28	2/22	2/16	2/08
32	3/16	3/06	2/26	2/19	2/13	2/07	1/31	1/24	1/13
28	3/07	2/21	2/12	2/04	1/26	1/18	1/08	12/26	0/00
24	2/08	1/25	1/14	12/31	0/00	0/00	0/00	0/00	0/00
20	1/17	12/31	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	11/04	11/10	11/14	11/18	11/21	11/25	11/28	12/02	12/08
32	11/14	11/22	11/27	12/02	12/06	12/10	12/14	12/20	12/27
28	11/24	12/04	12/12	12/18	12/24	12/31	1/07	1/17	0/00
24	12/18	12/28	1/07	1/17	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	293	282	274	267	261	254	248	240	228
32	332	318	308	301	293	286	279	270	258
28	>365	>365	355	336	326	317	309	300	289
24	>365	>365	>365	>365	>365	>365	>365	340	321
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	430	290	154	42	1	0	0	0	0	47	199	359	1522
60	303	176	67	8	0	0	0	0	0	14	114	237	919
57	239	124	34	2	0	0	0	0	0	6	74	178	657
55	203	94	20	1	0	0	0	0	0	3	53	145	519
50	124	39	4	0	0	0	0	0	0	0	20	74	261
32	6	0	0	0	0	0	0	0	0	0	0	0	6

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	621	644	907	1056	1318	1429	1530	1521	1362	1134	846	684	13052
55	105	94	213	366	605	739	817	808	672	424	209	116	5168
57	80	68	166	308	543	679	755	746	612	365	170	88	4580
60	50	36	106	224	450	589	662	653	522	280	120	53	3745
65	9	11	37	108	297	439	507	498	373	158	55	20	2512
70	9	0	8	34	154	289	352	343	228	69	20	7	1513

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	404	462	682	839	1093	1210	1304	1297	1147	910	631	469	404	866	1548	2387	3480	4690	5994	7291	8438	9348	9979	10448
45	274	329	532	689	938	1060	1149	1142	997	755	484	334	274	603	1135	1824	2762	3822	4971	6113	7110	7865	8349	8683
50	167	214	381	539	783	910	994	987	847	601	347	211	167	381	762	1301	2084	2994	3988	4975	5822	6423	6770	6981
55	91	121	246	391	628	760	839	832	697	447	223	127	91	212	458	849	1477	2237	3076	3908	4605	5052	5275	5402
60	42	58	134	251	473	610	684	677	547	299	129	60	42	100	234	485	958	1568	2252	2929	3476	3775	3904	3964
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	234	267	420	549	773	868	930	923	808	606	391	279	234	501	921	1470	2243	3111	4041	4964	5772	6378	6769	7048

(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