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: LSU BEN HUR FARM, LA **COOP ID: 165620**

Climate Division: LA 6 **NWS Call Sign:** **Elevation: 21 Feet** **Lat: 30˚22N** **Lon: 91˚10W**

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	60.4	39.7	50.1	82	1975	28	58.7	1974	10+	1982	11	40.9	1977	480	3	.0	.0	25.2	.2	8.7	.0
Feb	64.1	42.5	53.3	84+	1989	16	58.7	2000	15	1996	5	43.9	1978	335	7	.0	.0	25.3	.1	5.0	.0
Mar	71.3	49.3	60.3	89	1963	18	64.9	1985	20	1980	3	55.8+	1996	177	31	.0	.0	30.3	.0	1.3	.0
Apr	77.7	55.3	66.5	92+	1987	22	71.6	1981	31	1987	4	61.5	1993	60	105	.0	.4	30.0	.0	.1	.0
May	84.7	63.8	74.3	96	1998	31	78.1	2000	42	1970	4	70.7	1976	3	289	.0	4.9	31.0	.0	.0	.0
Jun	89.7	69.5	79.6	98+	1969	30	83.5	1998	49	1984	1	76.6	1983	0	437	.0	17.8	30.0	.0	.0	.0
Jul	91.4	72.0	81.7	100+	1969	5	85.4	1998	57+	1967	15	79.4	1972	0	516	.1	23.8	31.0	.0	.0	.0
Aug	91.5	71.3	81.4	105	2000	31	84.9	1999	56	1990	10	78.8	1992	0	507	.1	23.3	31.0	.0	.0	.0
Sep	88.0	67.1	77.6	103	2000	4	81.2	1980	41+	1967	29	73.6	1975	0	376	.2	14.0	30.0	.0	.0	.0
Oct	80.2	55.6	67.9	95	1998	2	72.9	1984	32+	1977	17	61.0	1976	54	145	.0	1.6	31.0	.0	.1	.0
Nov	70.8	47.9	59.4	88	1964	13	66.4	1985	20	1976	30	50.9	1976	219	49	.0	.0	29.4	.0	2.1	.0
Dec	63.4	41.8	52.6	84	1998	8	61.5	1984	9+	1989	23	42.6	1989	402	17	.0	.0	27.6	.1	7.2	.0
Ann	77.8	56.3	67.1	105	Aug 2000	31	85.4	Jul 1998	9+	Dec 1989	23	40.9	Jan 1977	1730	2482	.4	85.8	351.8	.4	24.5	.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: 1963-2001

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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	5.94	5.70	4.47	1993	21	13.28	1998	1.00	1981
Feb	4.99	4.80	4.96	1988	2	14.55	1988	.88	1980
Mar	4.98	4.62	4.53	1973	25	11.77	1973	1.63	1984
Apr	5.26	4.29	6.31	1969	13	14.47	1979	.16	1999
May	5.24	4.42	5.97	1978	3	14.12	1991	.09	1998
Jun	5.81	4.85	8.57	1989	28	21.26	1989	1.14	1974
Jul	5.40	5.05	4.09	1992	1	13.40	1979	1.76	1982
Aug	5.72	5.07	6.85	1983	2	15.12	1978	.61	1990
Sep	4.54	3.82	4.93	1965	10	11.11	1973	1.16	1993
Oct	3.61	3.47	8.13	1964	4	10.65	1996	.00	1978
Nov	4.81	4.33	5.40	1995	3	12.41	1986	.90	1999
Dec	5.17	4.42	6.38	1982	4	13.13	1982	1.27	1980
Ann	61.47	62.05	8.57	Jun 1989	28	21.26	Jun 1989	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.7	8.1	4.0	2.0
Feb	9.4	6.3	3.1	1.6
Mar	9.2	6.6	3.3	1.6
Apr	7.4	4.9	2.6	1.5
May	8.2	5.5	3.0	1.7
Jun	11.1	7.8	3.3	1.6
Jul	13.1	9.1	3.7	1.3
Aug	12.0	7.9	3.7	1.6
Sep	9.5	6.3	3.1	1.4
Oct	6.1	4.3	2.1	1.2
Nov	8.7	5.8	2.9	1.7
Dec	10.0	6.6	3.4	1.6
Ann	116.4	79.2	38.2	18.8

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	1.55	2.11	2.97	3.73	4.48	5.26	6.14	7.17	8.53	10.66	12.66
Feb	1.07	1.52	2.26	2.92	3.59	4.30	5.10	6.06	7.33	9.36	11.28
Mar	1.82	2.28	2.96	3.52	4.06	4.61	5.20	5.90	6.78	8.15	9.40
Apr	.45	.81	1.51	2.24	3.04	3.95	5.04	6.40	8.29	11.44	14.53
May	.84	1.29	2.06	2.78	3.52	4.33	5.26	6.40	7.91	10.37	12.73
Jun	1.06	1.58	2.43	3.22	4.02	4.89	5.88	7.08	8.67	11.23	13.67
Jul	1.90	2.41	3.15	3.77	4.37	4.98	5.64	6.42	7.41	8.94	10.35
Aug	1.38	1.91	2.75	3.49	4.23	5.01	5.88	6.92	8.28	10.44	12.46
Sep	1.25	1.68	2.34	2.91	3.46	4.05	4.70	5.46	6.46	8.02	9.48
Oct	.38	.81	1.42	1.94	2.47	3.04	3.68	4.46	5.49	7.15	8.73
Nov	1.13	1.58	2.29	2.91	3.54	4.20	4.94	5.82	6.98	8.82	10.55
Dec	1.67	2.16	2.88	3.50	4.10	4.71	5.39	6.18	7.20	8.78	10.24
Ann	44.16	47.52	51.82	55.08	57.97	60.77	63.65	66.83	70.69	76.27	81.10

\+ 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: 1963-2001
(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
Feb	.1	.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	.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	#	1982	14	#+	1982	#	1982	14	#	1982
Feb	1.0	1988	6	1.0	1988	1	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	.0	0	0	.0	0	0	0	0	0	0
Ann	1.0	Feb 1988	6	1.0	Feb 1988	1	Feb 1988	7	#+	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	.0
Feb	.1	.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	.0	.0	.0	.0	.0
Ann	.1	.1	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.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	.1	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

(1) Derived from Snow Climatology and 1971-2000 daily data

@ Denotes mean number of days greater than 0 but less than .05

(2) Derived from 1971-2000 daily data

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

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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	4/05	3/29	3/24	3/20	3/17	3/13	3/09	3/04	2/26
32	3/23	3/16	3/11	3/06	3/02	2/26	2/21	2/16	2/08
28	3/13	3/04	2/26	2/21	2/15	2/10	2/05	1/29	1/20
24	2/23	2/13	2/05	1/29	1/22	1/12	0/00	0/00	0/00
20	2/01	1/17	1/04	12/13	0/00	0/00	0/00	0/00	0/00
16	1/16	12/30	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	10/25	10/31	11/04	11/08	11/11	11/15	11/18	11/23	11/29
32	11/03	11/09	11/14	11/18	11/21	11/25	11/29	12/04	12/10
28	11/20	11/26	12/01	12/05	12/09	12/13	12/17	12/22	12/29
24	12/04	12/14	12/21	12/28	1/05	1/14	1/30	0/00	0/00
20	12/21	1/06	1/22	2/15	0/00	0/00	0/00	0/00	0/00
16	1/09	1/28	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	265	256	250	244	239	233	228	221	212
32	295	284	276	270	264	258	251	244	233
28	324	315	308	302	296	291	285	278	268
24	>365	>365	>365	>365	>365	333	318	307	295
20	>365	>365	>365	>365	>365	>365	>365	>365	340
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	480	335	177	60	3	0	0	0	0	54	219	402	1730
60	346	212	83	16	0	0	0	0	0	17	130	274	1078
57	276	152	45	6	0	0	0	0	0	8	87	211	785
55	235	119	27	3	0	0	0	0	0	4	64	174	626
50	150	55	6	0	0	0	0	0	0	1	25	98	335
32	9	0	0	0	0	0	0	0	0	0	0	1	10

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	568	596	878	1035	1310	1427	1539	1530	1366	1114	820	639	12822
55	81	71	192	348	597	737	826	817	676	405	194	99	5043
57	60	48	147	291	535	677	764	755	616	346	157	74	4470
60	37	24	93	212	442	587	671	662	526	263	110	44	3671
65	3	7	31	105	289	437	516	507	376	145	49	17	2482
70	2	0	7	37	151	287	361	352	231	61	18	5	1512

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	346	410	641	807	1072	1197	1299	1292	1133	874	588	413	346	756	1397	2204	3276	4473	5772	7064	8197	9071	9659	10072
45	227	284	491	657	917	1047	1144	1137	983	719	445	281	227	511	1002	1659	2576	3623	4767	5904	6887	7606	8051	8332
50	138	177	347	508	762	897	989	982	833	567	314	177	138	315	662	1170	1932	2829	3818	4800	5633	6200	6514	6691
55	74	100	224	363	607	747	834	827	683	415	201	103	74	174	398	761	1368	2115	2949	3776	4459	4874	5075	5178
60	33	47	121	229	452	597	679	672	533	271	114	54	33	80	201	430	882	1479	2158	2830	3363	3634	3748	3802
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	208	246	399	529	743	836	902	895	781	584	375	256	208	454	853	1382	2125	2961	3863	4758	5539	6123	6498	6754

(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