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: BATON ROUGE RYAN AP, LA **COOP ID: 160549**

Climate Division: LA 6 **NWS Call Sign: BTR** **Elevation: 64 Feet** **Lat: 30˚32N** **Lon: 91˚09W**

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	60.0	40.2	50.1	85	1946	4	59.5	1974	9	1985	21	41.1	1977	457	11	.0	.0	25.5	.1	8.1	.0
Feb	63.9	43.1	53.5	85+	1957	4	59.9	2000	13+	1951	2	44.4	1978	326	15	.0	.0	25.5	.1	4.2	.0
Mar	71.0	49.6	60.3	91+	1946	31	65.6	1974	20	1980	3	55.8	1971	185	55	.0	.0	30.5	.0	.9	.0
Apr	77.3	55.8	66.6	92+	1952	30	71.8	1999	31	1940	13	61.7	1983	57	119	.0	.2	30.0	.0	@	.0
May	84.0	64.1	74.0	98	1953	28	78.3	2000	40	1944	14	70.2	1976	4	298	.0	5.6	31.0	.0	.0	.0
Jun	89.2	70.2	79.7	103	1954	30	83.2	1998	53	1984	1	76.2	1983	0	457	.1	18.9	30.0	.0	.0	.0
Jul	90.7	72.7	81.7	101	1960	12	84.5	1998	58	1967	15	79.6	1984	0	534	@	23.9	31.0	.0	.0	.0
Aug	90.9	71.9	81.4	105	2000	30	85.1	1999	59+	1967	12	78.4	1992	0	523	.2	23.2	31.0	.0	.0	.0
Sep	87.4	67.5	77.5	104	2000	4	81.7	1986	43	1967	29	74.3	1975	2	389	.2	13.0	30.0	.0	.0	.0
Oct	79.7	56.4	68.1	94+	1938	2	73.2	1984	30	1993	31	61.6	1976	49	157	.0	1.5	31.0	.0	@	.0
Nov	70.1	47.9	59.0	89+	1935	2	65.8	1985	21	1976	30	51.0	1976	212	48	.0	.0	29.4	.0	1.6	.0
Dec	62.8	42.1	52.4	85	1982	2	61.6	1971	8	1989	23	43.6	1989	397	22	.0	.0	27.5	.1	6.3	.0
Ann	77.3	56.8	67.0	105	Aug 2000	30	85.1	Aug 1999	8	Dec 1989	23	41.1	Jan 1977	1689	2628	.5	86.3	352.4	.3	21.1	.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	6.19	6.25	9.01	1993	20	14.94	1998	1.15	1971
Feb	5.10	4.51	4.51	1961	17	12.49	1988	.64	2000
Mar	5.07	4.75	7.29	1947	13	12.73	1973	1.20	1984
Apr	5.56	4.63	11.99	1967	14	14.84	1980	.38	1976
May	5.34	5.08	4.85	1972	7	14.67	1989	.35	1998
Jun	5.33	4.59	9.35	2001	7	23.18	1989	.12	1979
Jul	5.96	6.11	4.26	1969	10	10.32	1994	2.36	1995
Aug	5.86	5.04	7.94	1987	11	14.48	1987	.38	1999
Sep	4.84	4.02	6.31	1973	12	13.95	1977	.78	1987
Oct	3.81	2.93	4.84	1964	3	14.48	1984	.00	1978
Nov	4.76	4.06	6.16	1989	7	13.55	1989	.42	1985
Dec	5.26	4.69	7.22	1982	3	15.94	1982	1.83	1996
Ann	63.08	61.55	11.99	Apr 1967	14	23.18	Jun 1989	.00	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	7.6	3.7	2.1
Feb	8.3	5.8	3.1	1.7
Mar	9.3	6.6	3.3	1.8
Apr	7.9	5.4	2.8	1.8
May	8.0	5.7	3.3	1.8
Jun	10.9	7.4	3.5	1.5
Jul	12.7	9.0	4.1	1.8
Aug	12.3	8.0	3.6	1.7
Sep	9.2	6.5	3.1	1.5
Oct	5.9	4.1	2.1	1.4
Nov	8.9	5.6	3.3	1.5
Dec	9.4	6.8	3.1	1.7
Ann	113.4	78.5	39.0	20.3

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	1.63	2.21	3.11	3.90	4.67	5.49	6.40	7.47	8.87	11.08	13.14
Feb	1.27	1.75	2.49	3.15	3.80	4.49	5.25	6.16	7.35	9.23	11.00
Mar	1.76	2.23	2.93	3.52	4.08	4.66	5.29	6.03	6.97	8.44	9.78
Apr	.55	.95	1.71	2.48	3.32	4.27	5.38	6.78	8.69	11.87	14.98
May	1.09	1.58	2.36	3.08	3.80	4.57	5.45	6.50	7.89	10.11	12.22
Jun	.71	1.14	1.90	2.64	3.42	4.28	5.28	6.51	8.17	10.89	13.52
Jul	2.78	3.30	4.01	4.59	5.13	5.67	6.25	6.91	7.74	8.99	10.12
Aug	1.26	1.80	2.66	3.44	4.22	5.05	5.99	7.12	8.60	10.97	13.21
Sep	.88	1.31	2.02	2.68	3.35	4.08	4.90	5.90	7.23	9.38	11.42
Oct	.45	.92	1.57	2.11	2.66	3.25	3.91	4.70	5.74	7.42	9.00
Nov	.87	1.29	1.98	2.63	3.29	4.01	4.82	5.80	7.11	9.22	11.22
Dec	1.56	2.06	2.81	3.46	4.08	4.74	5.46	6.31	7.41	9.13	10.73
Ann	44.19	47.82	52.49	56.04	59.20	62.26	65.42	68.92	73.17	79.35	84.70

\+ 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	.0	.0	#	0	.5	1973	11	.6	1973	1	1973	12	#	1973	.1	.0	.0	.0	.0	@	.0	.0	.0
Feb	.2	.0	#	0	3.2	1988	5	3.2	1988	2	1988	6	#	1988	.1	.1	@	.0	.0	.1	.0	.0	.0
Mar	#	.0	0	0	#	1993	12	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	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	#	1989	.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	#	1976	28	#	1976	#	1976	29	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1989	22	#+	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	3.2	Feb 1988	5	3.2	Feb 1988	2	Feb 1988	6	#+	May 1989	.2	.1	@	.0	.0	.1	.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	4/01	3/26	3/21	3/17	3/13	3/10	3/06	3/01	2/23
32	3/19	3/12	3/07	3/02	2/26	2/22	2/17	2/12	2/05
28	3/08	2/27	2/20	2/14	2/08	2/03	1/28	1/21	1/12
24	2/23	2/13	2/05	1/28	1/20	1/08	0/00	0/00	0/00
20	1/28	1/16	1/04	12/16	0/00	0/00	0/00	0/00	0/00
16	1/13	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	10/27	11/02	11/07	11/11	11/14	11/18	11/21	11/26	12/02
32	11/09	11/16	11/21	11/25	11/29	12/03	12/07	12/12	12/19
28	11/21	11/29	12/04	12/09	12/13	12/18	12/22	12/28	1/04
24	12/06	12/16	12/25	1/02	1/11	1/24	0/00	0/00	0/00
20	12/22	12/30	1/07	1/17	0/00	0/00	0/00	0/00	0/00
16	1/11	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	270	261	255	250	245	240	235	229	220
32	303	294	287	281	275	270	264	257	248
28	344	330	320	313	306	299	292	283	271
24	>365	>365	>365	>365	>365	>365	330	314	298
20	>365	>365	>365	>365	>365	>365	>365	>365	338
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	457	326	185	57	4	0	0	0	2	49	212	397	1689
60	350	211	84	11	0	0	0	0	0	17	130	278	1081
57	282	153	46	3	0	0	0	0	0	7	87	214	792
55	242	121	28	1	0	0	0	0	0	4	63	177	636
50	158	57	6	0	0	0	0	0	0	0	24	100	345
32	12	0	0	0	0	0	0	0	0	0	0	2	14

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	585	624	902	1061	1328	1453	1561	1548	1377	1130	824	654	13047
55	77	101	228	375	615	763	848	835	687	420	192	104	5245
57	58	76	184	319	553	703	786	773	627	361	154	81	4675
60	35	47	125	239	460	613	693	680	537	276	106	54	3865
65	11	15	55	119	298	457	534	523	389	157	48	22	2628
70	2	3	17	49	166	313	383	370	247	69	14	5	1638

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	364	435	661	829	1087	1222	1323	1308	1146	891	596	426	364	799	1460	2289	3376	4598	5921	7229	8375	9266	9862	10288
45	244	305	512	679	932	1072	1168	1153	996	737	448	294	244	549	1061	1740	2672	3744	4912	6065	7061	7798	8246	8540
50	152	197	367	529	777	922	1013	998	846	583	310	183	152	349	716	1245	2022	2944	3957	4955	5801	6384	6694	6877
55	81	111	237	383	622	772	858	843	696	429	201	109	81	192	429	812	1434	2206	3064	3907	4603	5032	5233	5342
60	41	53	131	247	467	622	703	688	546	284	113	56	41	94	225	472	939	1561	2264	2952	3498	3782	3895	3951
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	218	261	415	544	758	851	927	912	799	587	373	263	218	479	894	1438	2196	3047	3974	4886	5685	6272	6645	6908

(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