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: HACKBERRY 8 SSW, LA **COOP ID: 163979**

Climate Division: LA 7 **NWS Call Sign:** **Elevation: 6 Feet** **Lat: 29˚53N** **Lon: 93˚25W**

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	59.3	42.9	51.1	84	1952	27	58.1	1989	13	1982	14	41.8	1978	449	8	.0	.0	25.3	.1	4.2	.0
Feb	63.1	46.2	54.7	80+	1957	1	61.2	2000	11	1951	2	43.7	1978	306	16	.0	.0	25.1	@	1.9	.0
Mar	69.6	53.5	61.6	88	1963	11	67.3	2000	25+	1951	14	55.5	1996	150	43	.0	.0	30.3	.0	.4	.0
Apr	75.6	60.5	68.1	93	1987	29	72.5	1999	35	1951	12	62.8	1983	33	126	.0	.1	30.0	.0	.0	.0
May	82.4	68.6	75.5	94+	1958	29	78.6	1998	44	1960	12	71.6	1976	1	327	.0	1.0	31.0	.0	.0	.0
Jun	87.9	74.4	81.2	98+	1984	25	83.8	1990	54	1955	12	78.1	1976	0	484	.0	9.3	30.0	.0	.0	.0
Jul	90.2	75.6	82.9	100	1954	11	85.3	1997	62	1967	16	80.2	1972	0	555	.0	20.5	31.0	.0	.0	.0
Aug	90.4	75.2	82.8	103+	1999	20	87.4	1999	59	1956	22	79.9	1971	0	551	.3	20.2	31.0	.0	.0	.0
Sep	87.1	71.5	79.3	106	2000	1	83.1	1998	45	1948	29	76.2	1975	0	428	.2	9.6	30.0	.0	.0	.0
Oct	79.4	62.1	70.8	98	1998	1	75.0	1984	29	1952	30	61.6	1976	30	208	.0	.7	31.0	.0	@	.0
Nov	70.0	53.0	61.5	88	1971	3	68.7	1973	20+	1951	3	52.6	1976	178	73	.0	.0	29.4	.0	.2	.0
Dec	62.3	45.4	53.9	81+	1998	7	61.5	1984	12+	1983	25	45.7	1989	361	15	.0	.0	27.8	.2	2.4	.0
Ann	76.4	60.7	68.6	106	Sep 2000	1	87.4	Aug 1999	11	Feb 1951	2	41.8	Jan 1978	1508	2834	.5	61.4	351.9	.3	9.1	.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: 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	5.70	4.79	4.00	1972	20	13.76	1974	1.10	1976
Feb	3.46	2.90	3.80	1997	13	9.36	1997	.90	1989
Mar	3.78	3.28	6.48	1965	1	8.42	1990	.73+	1978
Apr	4.01	3.72	5.77	1967	14	11.57	1973	.23	1987
May	4.92	4.83	6.26	1983	21	12.29	1991	.10	1998
Jun	6.63	6.01	7.60	1957	27	20.81	1989	.64	1980
Jul	6.62	6.30	8.65	1952	16	22.01	1979	.59	1986
Aug	5.47	4.77	22.00	1962	29	18.12	1977	.18	1999
Sep	5.53	4.93	7.38	1979	20	15.72	1973	1.66	1974
Oct	4.37	3.80	5.75	1985	28	12.30	1985	.05	1978
Nov	4.72	3.92	4.93	1995	3	15.58	2000	.50	1999
Dec	4.37	3.89	5.30	1995	18	9.85	1982	1.25	1984
Ann	59.58	59.80	22.00	Aug 1962	29	22.01	Jul 1979	.05	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	13.5	7.0	3.4	1.7
Feb	9.9	5.4	2.2	1.0
Mar	9.1	5.1	2.5	1.4
Apr	7.0	3.8	2.2	1.3
May	8.1	5.5	3.0	1.6
Jun	9.6	6.8	3.8	2.2
Jul	12.6	7.9	4.0	2.2
Aug	11.3	7.4	3.4	1.6
Sep	9.2	6.2	2.9	1.5
Oct	7.3	4.5	2.4	1.5
Nov	9.5	5.4	3.0	1.6
Dec	12.0	6.1	2.8	1.3
Ann	119.1	71.1	35.6	18.9

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	1.24	1.76	2.60	3.35	4.11	4.92	5.83	6.92	8.36	10.65	12.81
Feb	.69	1.00	1.51	1.98	2.45	2.95	3.53	4.22	5.13	6.59	7.98
Mar	1.07	1.43	1.97	2.44	2.90	3.38	3.92	4.55	5.36	6.64	7.83
Apr	.45	.75	1.31	1.87	2.47	3.14	3.92	4.90	6.22	8.42	10.55
May	.40	.73	1.37	2.05	2.80	3.66	4.69	5.98	7.77	10.77	13.72
Jun	1.17	1.75	2.72	3.63	4.55	5.56	6.70	8.08	9.93	12.90	15.75
Jul	1.79	2.42	3.37	4.21	5.03	5.89	6.85	7.98	9.45	11.76	13.92
Aug	.86	1.32	2.12	2.87	3.65	4.51	5.49	6.68	8.29	10.89	13.39
Sep	1.53	2.05	2.85	3.54	4.23	4.94	5.73	6.66	7.88	9.78	11.56
Oct	.58	.93	1.56	2.17	2.80	3.51	4.33	5.34	6.70	8.93	11.08
Nov	.94	1.37	2.07	2.70	3.34	4.03	4.81	5.75	6.99	8.97	10.86
Dec	1.51	1.92	2.52	3.03	3.52	4.02	4.56	5.20	6.01	7.28	8.44
Ann	43.83	46.92	50.85	53.83	56.46	58.99	61.60	64.47	67.95	72.97	77.30

\+ 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)

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	.2	.0	#	0	4.0	1973	12	4.0	1973	#	1982	14	#	1982	@	@	@	.0	.0	.0	.0	.0	.0
Feb	#	.0	#	0	#	1988	8	#	1988	#	1988	8	#	1988	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	0	0	0	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	4.0	Jan 1973	12	4.0	Jan 1973	#+	Feb 1988	8	#+	Feb 1988	@	@	@	.0	.0	.0	.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	3/21	3/11	3/04	2/26	2/21	2/15	2/09	2/02	1/24
32	3/06	2/22	2/14	2/07	1/31	1/24	1/16	1/07	12/24
28	2/20	2/10	2/02	1/25	1/18	1/08	12/23	0/00	0/00
24	1/24	1/12	1/01	12/15	0/00	0/00	0/00	0/00	0/00
20	1/14	12/30	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	11/12	11/19	11/24	11/29	12/03	12/07	12/11	12/16	12/23
32	11/13	11/25	12/04	12/11	12/18	12/25	1/02	1/11	1/25
28	12/11	12/20	12/26	1/01	1/06	1/13	1/23	0/00	0/00
24	12/23	1/03	1/13	1/28	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	0/00	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	314	302	294	288	282	276	270	263	253
32	>365	359	340	328	318	308	298	287	272
28	>365	>365	>365	>365	>365	347	332	319	305
24	>365	>365	>365	>365	>365	>365	>365	>365	348
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	449	306	150	33	1	0	0	0	0	30	178	361	1508
60	318	196	67	6	0	0	0	0	0	8	98	235	928
57	252	144	35	1	0	0	0	0	0	3	62	174	671
55	214	115	22	0	0	0	0	0	0	2	44	139	536
50	132	55	5	0	0	0	0	0	0	0	16	68	276
32	6	0	0	0	0	0	0	0	0	0	0	0	6

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	599	634	916	1082	1349	1474	1578	1574	1418	1202	885	677	13388
55	93	105	224	392	636	784	865	861	728	490	239	103	5520
57	70	78	176	334	574	724	803	799	668	430	197	75	4928
60	43	46	115	248	481	634	710	706	578	342	143	43	4089
65	8	16	43	126	327	484	555	551	428	208	73	15	2834
70	7	5	10	45	183	334	400	396	280	104	29	2	1795

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	378	453	683	855	1116	1249	1346	1339	1186	964	656	455	378	831	1514	2369	3485	4734	6080	7419	8605	9569	10225	10680
45	252	319	529	705	961	1099	1191	1184	1036	809	508	314	252	571	1100	1805	2766	3865	5056	6240	7276	8085	8593	8907
50	149	204	382	555	806	949	1036	1029	886	654	369	196	149	353	735	1290	2096	3045	4081	5110	5996	6650	7019	7215
55	71	113	249	407	651	799	881	874	736	503	244	107	71	184	433	840	1491	2290	3171	4045	4781	5284	5528	5635
60	29	47	131	263	496	649	726	719	586	351	139	47	29	76	207	470	966	1615	2341	3060	3646	3997	4136	4183
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	201	243	406	560	796	912	962	960	847	655	396	248	201	444	850	1410	2206	3118	4080	5040	5887	6542	6938	7186

(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