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: CALHOUN RESEARCH STN, LA **COOP ID: 161411**

Climate Division: LA 2 **NWS Call Sign:** **Elevation: 180 Feet** **Lat: 32˚31N** **Lon: 92˚21W**

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	57.3	33.5	45.4	83+	1950	25	51.2	1975	-2	1962	12	36.3	1977	608	0	.0	.0	20.6	.9	15.9	.0
Feb	62.8	36.7	49.8	86	1986	21	58.4	1976	-5	1951	2	39.6	1978	429	2	.0	.0	22.4	.5	11.2	.0
Mar	70.2	44.3	57.3	90	1950	25	63.4	1974	15	1996	9	51.6	1996	258	18	.0	.0	29.4	@	3.9	.0
Apr	77.4	50.8	64.1	94+	1987	21	70.7	1981	27+	1987	4	58.4	1997	100	73	.0	.3	29.9	.0	.6	.0
May	84.4	60.1	72.3	99	1951	31	75.7	1987	40+	1954	4	68.3	1976	12	235	.0	4.1	31.0	.0	.0	.0
Jun	91.1	67.5	79.3	103+	1953	21	82.9	1998	49+	1966	1	76.4	1976	0	429	.3	18.0	30.0	.0	.0	.0
Jul	94.5	71.0	82.8	105+	1954	16	86.9	1980	53	1967	15	80.1	1989	0	550	2.3	25.6	31.0	.0	.0	.0
Aug	94.7	69.6	82.2	108+	1998	2	85.8	2000	50	1986	30	77.3	1992	0	532	3.4	25.1	31.0	.0	.0	.0
Sep	89.1	63.4	76.3	110	2000	1	82.5	1980	36+	1967	29	71.0	1974	4	342	.9	14.3	30.0	.0	.0	.0
Oct	79.4	51.1	65.3	100	1954	6	70.7	1973	26+	1952	29	58.7	1976	86	94	.0	2.0	31.0	.0	.5	.0
Nov	68.5	42.8	55.7	88	1955	13	62.0	1973	16	1976	29	49.1	1976	296	16	.0	.0	27.9	.0	5.3	.0
Dec	59.9	35.7	47.8	84	1995	4	58.6	1984	5+	1989	23	38.3	2000	541	7	.0	.0	23.3	.6	13.8	.0
Ann	77.4	52.2	64.9	110	Sep 2000	1	86.9	Jul 1980	-5	Feb 1951	2	36.3	Jan 1977	2334	2298	6.9	89.4	337.5	2.0	51.2	.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

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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	5.72	4.58	4.50	1999	29	16.68	1999	.65	1986
Feb	4.79	4.71	6.42	1966	10	11.71	1987	.61	1999
Mar	5.77	5.89	6.43	1955	21	10.67	1980	2.26	1996
Apr	4.79	4.13	4.30	1991	29	16.84	1991	.80	1987
May	5.39	4.52	10.50	1989	5	18.21	1989	.69	1982
Jun	4.52	3.85	4.78	1975	10	13.28	1989	1.02	1979
Jul	3.72	3.29	5.20	1975	11	11.63	1975	.72	1980
Aug	3.14	2.63	3.75	1968	13	12.24	1996	.54	1999
Sep	3.36	2.32	7.90	1978	15	9.07	1978	.57+	1989
Oct	4.24	2.95	5.40	1991	30	10.07	1985	.73	1983
Nov	4.61	4.30	3.70	1968	28	11.90	1986	.69	1999
Dec	5.44	4.87	6.49	1982	26	22.21	1982	.70	1980
Ann	55.49	54.87	10.50	May 1989	5	22.21	Dec 1982	.54	Aug 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.2	7.6	3.4	1.7
Feb	8.1	6.1	3.2	1.7
Mar	9.4	7.0	4.1	2.0
Apr	7.7	5.6	2.7	1.9
May	8.3	6.2	3.1	1.9
Jun	8.8	6.3	3.2	1.4
Jul	8.3	6.0	2.4	1.0
Aug	6.8	4.7	2.1	1.0
Sep	6.5	4.4	2.1	1.1
Oct	6.6	4.9	2.4	1.4
Nov	8.3	6.3	3.4	1.4
Dec	9.4	6.8	3.3	1.8
Ann	98.4	71.9	35.4	18.3

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	1.07	1.58	2.42	3.19	3.98	4.84	5.80	6.97	8.52	11.02	13.40
Feb	1.22	1.67	2.37	2.98	3.59	4.23	4.94	5.78	6.89	8.63	10.27
Mar	2.43	2.96	3.69	4.29	4.86	5.43	6.05	6.76	7.65	9.02	10.26
Apr	.86	1.29	1.99	2.64	3.31	4.03	4.84	5.84	7.16	9.28	11.31
May	.81	1.26	2.04	2.78	3.56	4.41	5.39	6.58	8.19	10.80	13.31
Jun	1.04	1.46	2.12	2.71	3.30	3.93	4.64	5.48	6.58	8.33	9.99
Jul	.67	1.00	1.55	2.05	2.57	3.13	3.76	4.53	5.55	7.20	8.77
Aug	.60	.88	1.34	1.76	2.19	2.66	3.19	3.82	4.67	6.03	7.32
Sep	.57	.86	1.35	1.82	2.29	2.80	3.39	4.11	5.06	6.60	8.08
Oct	.73	1.10	1.72	2.30	2.89	3.54	4.28	5.17	6.37	8.30	10.15
Nov	1.22	1.66	2.33	2.91	3.49	4.10	4.77	5.56	6.60	8.24	9.77
Dec	1.17	1.67	2.47	3.19	3.92	4.69	5.56	6.61	7.99	10.19	12.26
Ann	38.31	41.59	45.82	49.05	51.92	54.71	57.60	60.79	64.68	70.34	75.25

\+ 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
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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	.9	.0	#	0
Feb	.2	.0	#	0
Mar	#	.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	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	1971	8	7.0	1985	5	1982	14	#+	1997
Feb	1.0	1971	8	1.0+	1989	1	1989	6	#+	1996
Mar	#	1987	30	#+	1987	#	1978	4	#	1978
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	0	0	0	0	0
Dec	.7	1996	16	.7	1996	#+	1997	14	#+	1997
Ann	4.0	Jan 1971	8	7.0	Jan 1985	5	Jan 1982	14	#+	Dec 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.3	.2	.0	.0
Feb	.3	.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	.1	.0	.0	.0	.0
Ann	.7	.4	.2	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.1	.1	.0	.0
Feb	@	.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	.1	.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	4/18	4/13	4/10	4/07	4/04	4/01	3/29	3/26	3/21
32	4/12	4/05	3/31	3/28	3/24	3/20	3/16	3/11	3/05
28	3/27	3/19	3/13	3/09	3/04	2/27	2/22	2/17	2/09
24	3/12	3/03	2/25	2/19	2/14	2/09	2/03	1/28	1/19
20	2/27	2/16	2/08	2/01	1/25	1/18	1/08	12/22	0/00
16	2/06	1/26	1/18	1/10	1/01	12/16	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	10/09	10/15	10/19	10/23	10/26	10/30	11/02	11/07	11/13
32	10/23	10/29	11/02	11/05	11/09	11/12	11/15	11/19	11/25
28	11/07	11/12	11/15	11/19	11/22	11/25	11/28	12/02	12/07
24	11/19	11/26	12/01	12/05	12/08	12/12	12/16	12/21	12/27
20	11/30	12/11	12/19	12/26	1/02	1/09	1/18	2/04	0/00
16	12/16	12/25	1/01	1/08	1/17	1/31	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	223	217	212	208	204	200	196	192	185
32	254	245	239	234	229	224	219	213	204
28	291	281	274	268	262	256	250	243	233
24	326	316	308	302	296	291	284	277	267
20	>365	>365	>365	>365	343	328	316	306	293
16	>365	>365	>365	>365	>365	>365	>365	344	322

***** 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	608	429	258	100	12	0	0	0	4	86	296	541	2334
60	465	301	145	37	2	0	0	0	0	31	180	399	1560
57	381	230	94	17	0	0	0	0	0	14	126	321	1183
55	328	189	66	9	0	0	0	0	0	7	96	274	969
50	215	106	22	1	0	0	0	0	0	1	41	176	562
32	15	1	0	0	0	0	0	0	0	0	0	10	26

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	430	498	783	963	1247	1419	1573	1555	1328	1031	710	499	12036
55	30	42	136	282	534	729	860	842	638	325	116	50	4584
57	20	27	102	230	472	669	798	780	578	269	86	35	4066
60	11	14	59	160	380	579	705	687	488	194	50	20	3347
65	0	2	18	73	235	429	550	532	342	94	16	7	2298
70	0	0	3	22	117	280	395	377	209	34	2	0	1439

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	217	304	526	712	986	1169	1319	1293	1078	772	457	265	217	521	1047	1759	2745	3914	5233	6526	7604	8376	8833	9098
45	132	201	384	562	831	1019	1164	1138	928	617	324	162	132	333	717	1279	2110	3129	4293	5431	6359	6976	7300	7462
50	71	117	254	417	676	869	1009	983	778	464	210	94	71	188	442	859	1535	2404	3413	4396	5174	5638	5848	5942
55	33	63	152	279	521	719	854	828	628	324	123	49	33	96	248	527	1048	1767	2621	3449	4077	4401	4524	4573
60	12	26	74	168	368	569	699	673	478	198	62	22	12	38	112	280	648	1217	1916	2589	3067	3265	3327	3349
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	144	204	332	462	666	802	895	866	724	507	294	174	144	348	680	1142	1808	2610	3505	4371	5095	5602	5896	6070

(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