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: WINNSBORO 5 SSE, LA **COOP ID: 169806**

Climate Division: LA 3 **NWS Call Sign:** **Elevation: 80 Feet** **Lat: 32˚06N** **Lon: 91˚43W**

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	54.8	35.4	45.1	84	1943	23	51.3	1999	1	1962	12	34.7	1977	624	0	.0	.0	20.7	1.1	13.9	.0
Feb	59.7	38.8	49.3	84+	1977	26	55.8	1990	6	1951	2	38.6	1978	446	5	.0	.0	22.0	.7	8.6	.0
Mar	67.8	46.4	57.1	90	1946	30	62.4	2000	17	1943	3	52.4	1978	262	17	.0	.0	29.4	@	2.5	.0
Apr	75.5	53.2	64.4	93+	1987	22	70.4	1981	29	1987	4	59.4	1983	95	76	.0	.4	30.0	.0	.2	.0
May	83.1	62.3	72.7	99	1977	31	77.0	1996	39	1961	28	67.3	1976	13	252	.0	5.5	31.0	.0	.0	.0
Jun	89.9	69.2	79.6	108	1963	16	84.2	1998	48	1977	8	76.0	1974	0	436	.4	18.7	30.0	.0	.0	.0
Jul	92.7	71.9	82.3	106+	1930	12	86.6	1998	51	1967	15	79.6	1972	0	537	2.3	25.8	31.0	.0	.0	.0
Aug	92.6	70.4	81.5	109	1951	31	85.5	2000	54+	1931	12	77.8	1992	0	512	2.6	25.0	31.0	.0	.0	.0
Sep	87.9	64.5	76.2	108	2000	1	81.6	1980	35	1967	29	70.6	1974	5	341	.7	15.5	30.0	.0	.0	.0
Oct	78.6	52.3	65.5	100	1954	6	70.0	1973	23	1952	29	58.4	1976	83	97	.0	2.2	31.0	.0	.3	.0
Nov	67.0	44.8	55.9	89+	1960	29	61.6	1973	18+	1938	28	47.7	1976	291	18	.0	.0	28.3	.0	3.6	.0
Dec	57.9	37.8	47.9	83+	1942	25	57.2	1984	5	1989	23	39.5	1989	538	7	.0	.0	23.6	.6	11.0	.0
Ann	75.6	53.9	64.8	109	Aug 1951	31	86.6	Jul 1998	1	Jan 1962	12	34.7	Jan 1977	2357	2298	6.0	93.1	338.0	2.4	40.1	.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	5.89	4.58	4.89	1949	3	15.34	1974	.95	1971
Feb	4.94	4.47	7.47	1966	10	11.72	1983	1.32	2000
Mar	5.92	5.86	7.47	1951	28	11.42	1980	1.91	1978
Apr	5.63	5.21	5.77	1996	23	17.88	1991	.30	1981
May	5.30	5.02	5.63	1953	17	17.56	1983	.34	1988
Jun	4.61	3.60	5.74	1955	28	12.65	1989	1.05	1973
Jul	3.44	2.67	5.40	1945	25	8.37	1995	1.21	1987
Aug	3.02	2.71	4.02	1992	27	7.95	1985	.04	2000
Sep	2.88	2.68	5.26	1940	24	7.43	1979	.62	1984
Oct	3.99	3.52	4.18	1975	16	11.86	1985	.10	1983
Nov	5.17	4.50	10.63	1987	16	17.21	1987	.93	1999
Dec	5.75	4.72	6.65	1998	12	17.78	1982	.77	1980
Ann	56.54	55.36	10.63	Nov 1987	16	17.88	Apr 1991	.04	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.6	7.7	4.0	1.8
Feb	8.3	6.2	3.1	1.6
Mar	9.7	7.5	3.8	1.9
Apr	7.2	5.3	3.0	1.9
May	8.5	6.4	3.2	1.7
Jun	8.8	6.1	3.0	1.3
Jul	8.5	5.8	2.2	.9
Aug	7.5	5.2	1.8	.8
Sep	6.6	4.4	2.1	.9
Oct	6.7	5.1	2.3	1.2
Nov	8.3	6.4	3.3	1.4
Dec	9.8	7.2	3.9	1.9
Ann	100.5	73.3	35.7	17.3

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	1.13	1.66	2.53	3.32	4.13	5.00	5.99	7.18	8.76	11.29	13.70
Feb	1.27	1.74	2.46	3.09	3.71	4.37	5.10	5.96	7.09	8.87	10.54
Mar	2.50	3.04	3.79	4.41	4.98	5.57	6.20	6.93	7.84	9.24	10.51
Apr	.68	1.12	1.91	2.69	3.53	4.45	5.54	6.88	8.70	11.69	14.60
May	.92	1.38	2.15	2.88	3.62	4.43	5.34	6.46	7.95	10.35	12.64
Jun	.88	1.30	1.97	2.60	3.23	3.91	4.68	5.61	6.85	8.84	10.72
Jul	1.04	1.37	1.86	2.28	2.69	3.11	3.58	4.13	4.84	5.95	6.97
Aug	.37	.60	1.03	1.45	1.90	2.39	2.97	3.69	4.67	6.27	7.82
Sep	.75	1.03	1.44	1.81	2.17	2.55	2.98	3.48	4.13	5.17	6.13
Oct	.36	.63	1.17	1.72	2.32	3.01	3.83	4.85	6.27	8.62	10.93
Nov	1.27	1.76	2.51	3.18	3.85	4.55	5.33	6.26	7.48	9.40	11.21
Dec	1.52	2.07	2.90	3.63	4.35	5.10	5.94	6.94	8.23	10.27	12.18
Ann	39.55	42.82	47.02	50.21	53.05	55.80	58.65	61.80	65.63	71.18	76.00

+ 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	.3	.0	#	0	1.2	1988	7	1.2	1988	7	1982	13	#+	1988	.2	.2	.0	.0	.0	.2	.0	.0	.0
Feb	#	.0	#	0	#	1989	7	#+	1989	1	1985	2	#+	1988	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	#	0	#	1980	2	#+	1980	#	1978	4	#	1978	.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	#	1989	18	#	1989	#	1983	17	#	1983	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	1.2	Jan 1988	7	1.2	Jan 1988	7	Jan 1982	13	#+	Feb 1988	.2	.2	.0	.0	.0	.2	.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	4/12	4/07	4/04	4/01	3/29	3/26	3/23	3/20	3/15
32	4/03	3/27	3/22	3/18	3/15	3/11	3/07	3/02	2/24
28	3/15	3/08	3/03	2/26	2/22	2/18	2/13	2/08	2/01
24	3/08	2/27	2/20	2/15	2/10	2/05	1/30	1/24	1/15
20	2/20	2/09	1/31	1/23	1/15	1/05	12/17	0/00	0/00
16	1/21	1/10	12/30	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	10/11	10/18	10/23	10/27	10/31	11/04	11/08	11/13	11/20
32	10/26	11/01	11/06	11/10	11/13	11/17	11/21	11/25	12/02
28	11/02	11/09	11/14	11/18	11/22	11/26	11/30	12/05	12/12
24	11/17	11/27	12/05	12/12	12/18	12/24	12/31	1/08	1/18
20	12/10	12/17	12/22	12/27	12/31	1/06	1/17	0/00	0/00
16	12/25	1/06	1/20	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	238	230	224	220	215	211	206	200	192
32	272	262	255	249	243	237	231	223	213
28	302	292	285	278	272	266	260	252	242
24	352	333	322	314	307	299	292	283	271
20	>365	>365	>365	>365	>365	345	329	317	303
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	624	446	262	95	13	0	0	0	5	83	291	538	2357
60	478	317	148	34	2	0	0	0	0	29	178	394	1580
57	396	247	96	15	0	0	0	0	0	12	125	315	1206
55	345	205	69	7	0	0	0	0	0	7	96	268	997
50	235	122	24	1	0	0	0	0	0	1	41	170	594
32	22	3	0	0	0	0	0	0	0	0	0	9	34

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	428	486	778	971	1262	1426	1560	1535	1326	1037	717	501	12027
55	38	44	134	288	549	736	847	822	636	331	123	47	4595
57	27	30	99	235	488	676	785	760	576	275	93	32	4076
60	16	16	58	164	396	586	692	667	486	199	55	18	3353
65	0	5	17	76	252	436	537	512	341	97	18	7	2298
70	0	0	3	24	134	287	382	357	209	36	4	0	1436

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	235	322	555	748	1032	1200	1327	1302	1104	804	496	295	235	557	1112	1860	2892	4092	5419	6721	7825	8629	9125	9420
45	144	216	408	598	877	1050	1172	1147	954	649	358	188	144	360	768	1366	2243	3293	4465	5612	6566	7215	7573	7761
50	81	131	277	453	722	900	1017	992	804	496	241	110	81	212	489	942	1664	2564	3581	4573	5377	5873	6114	6224
55	40	65	167	314	567	750	862	837	654	348	145	58	40	105	272	586	1153	1903	2765	3602	4256	4604	4749	4807
60	14	25	84	191	413	600	707	682	504	223	75	26	14	39	123	314	727	1327	2034	2716	3220	3443	3518	3544
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	144	197	337	481	700	828	900	880	742	530	307	176	144	341	678	1159	1859	2687	3587	4467	5209	5739	6046	6222

(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