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: ROSEPINE RESEARCH STN, LA **COOP ID: 168046**

Climate Division: LA 4 **NWS Call Sign:** **Elevation: 238 Feet** **Lat: 30˚57N** **Lon: 93˚17W**

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	58.9	35.9	47.4	80+	1997	4	54.4	1999	8	1982	11	37.6	1977	557	3	.0	.0	24.2	.3	12.4	.0
Feb	63.5	39.3	51.4	86	1986	27	58.1	1999	12	1996	5	40.1	1978	391	9	.0	.0	24.5	.3	7.8	.0
Mar	70.6	46.7	58.7	88	1997	29	65.0	2000	18	1980	3	54.1	1978	223	26	.0	@	29.9	.0	2.9	.0
Apr	77.0	53.2	65.1	93	1987	22	70.3	1999	30	1987	4	60.5	1983	74	76	.0	.4	30.0	.0	.2	.0
May	84.3	61.7	73.0	101	1998	31	77.5	1996	42	1992	8	69.3	1976	5	254	@	4.9	31.0	.0	.0	.0
Jun	90.3	67.7	79.0	102+	1998	20	83.9	1998	49	1984	1	76.0	1976	0	420	.5	19.3	30.0	.0	.0	.0
Jul	93.0	70.0	81.5	105+	1980	18	86.1	1998	57	1990	15	79.3	1976	0	512	1.6	26.1	31.0	.0	.0	.0
Aug	93.4	69.1	81.3	110	1998	1	85.4	1999	51	1992	29	78.4	1992	0	505	2.1	26.1	31.0	.0	.0	.0
Sep	88.9	64.6	76.8	110	2000	1	82.6	1980	42	1983	22	72.7	1974	1	354	.6	16.3	30.0	.0	.0	.0
Oct	80.3	53.5	66.9	97	1998	1	71.1	1984	26+	1989	20	59.2	1976	60	119	.0	2.9	31.0	.0	.2	.0
Nov	69.4	45.2	57.3	87+	1978	3	62.7	1973	18	1976	30	49.0	1976	257	25	.0	.0	29.1	.0	3.2	.0
Dec	61.4	38.1	49.8	85	1998	5	59.9	1984	6	1989	23	41.3	1989	482	9	.0	.0	26.5	.3	10.2	.0
Ann	77.6	53.8	65.7	110+	Sep 2000	1	86.1	Jul 1998	6	Dec 1989	23	37.6	Jan 1977	2050	2312	4.8	96.0	348.2	.9	36.9	.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: 1969-2001

(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	5.74	5.20	4.47	1998	7	12.75	1990	.86	2000
Feb	4.42	3.68	5.10	1984	12	12.34	1997	.62	2000
Mar	5.37	5.06	5.55	1995	7	10.95	1973	1.35	1986
Apr	4.26	3.86	5.42	1995	11	9.48	1995	.43	1978
May	5.58	4.85	6.93	1995	29	11.53	1995	.01	1998
Jun	4.86	4.22	4.82	1989	28	18.72	1989	1.14	1998
Jul	5.13	4.92	5.27	1991	4	11.13	1991	2.17	1992
Aug	3.96	4.23	5.30	1973	29	9.06	1973	.16	1999
Sep	4.36	3.90	6.46	1998	12	12.10	1998	.84	1993
Oct	4.13	3.68	5.37	2001	13	16.09	1985	.45	1978
Nov	5.25	4.49	5.28	2001	27	13.00	2000	1.11	1999
Dec	6.08	4.85	6.25	1982	26	18.51	1982	1.53	1980
Ann	59.14	58.04	6.93	May 1995	29	18.72	Jun 1989	.01	May 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	12.3	7.5	3.6	1.9
Feb	9.4	5.6	2.8	1.4
Mar	10.1	6.4	3.6	1.9
Apr	8.4	5.3	2.4	1.6
May	9.3	6.4	3.5	2.1
Jun	10.4	6.7	3.4	1.4
Jul	10.9	7.5	3.4	1.6
Aug	9.6	6.2	2.5	1.1
Sep	8.7	5.7	2.7	1.2
Oct	8.0	5.0	2.5	1.3
Nov	10.1	6.6	3.3	2.0
Dec	11.4	7.1	3.9	1.9
Ann	118.6	76.0	37.6	19.4

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	1.17	1.69	2.53	3.30	4.08	4.91	5.85	6.98	8.48	10.87	13.14
Feb	.88	1.29	1.93	2.53	3.13	3.77	4.50	5.38	6.54	8.40	10.16
Mar	1.86	2.36	3.10	3.73	4.32	4.94	5.61	6.39	7.39	8.93	10.35
Apr	.79	1.16	1.79	2.37	2.96	3.59	4.31	5.19	6.35	8.22	10.00
May	.69	1.13	1.92	2.69	3.52	4.43	5.50	6.82	8.60	11.54	14.38
Jun	1.26	1.72	2.42	3.04	3.66	4.30	5.01	5.86	6.97	8.72	10.35
Jul	2.02	2.49	3.17	3.73	4.26	4.79	5.37	6.05	6.90	8.21	9.40
Aug	.84	1.21	1.79	2.32	2.85	3.41	4.05	4.81	5.82	7.43	8.96
Sep	1.23	1.64	2.27	2.81	3.34	3.90	4.52	5.24	6.18	7.66	9.04
Oct	.73	1.09	1.70	2.26	2.84	3.46	4.17	5.04	6.19	8.04	9.81
Nov	1.41	1.91	2.67	3.33	3.99	4.67	5.43	6.33	7.51	9.35	11.07
Dec	1.93	2.50	3.36	4.09	4.80	5.53	6.33	7.27	8.48	10.37	12.11
Ann	41.76	45.11	49.41	52.68	55.59	58.40	61.30	64.51	68.41	74.07	78.96

+ 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: 1969-2001
(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	.3	1973	11	.5	1973	#	1982	14	#	1982	.2	.0	.0	.0	.0	.0	.0	.0	.0
Feb	#	.0	0	0	#	1989	7	#+	1989	0	0	0	0	0	.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	#	1990	24	#+	1990	#	1990	24	#	1990	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	.3	Jan 1973	11	.5	Jan 1973	#+	Dec 1990	24	#+	Dec 1990	.2	.0	.0	.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	4/19	4/12	4/07	4/03	3/30	3/27	3/23	3/18	3/11
32	3/30	3/24	3/20	3/17	3/14	3/10	3/07	3/03	2/25
28	3/18	3/11	3/05	3/01	2/24	2/20	2/15	2/10	2/02
24	3/06	2/24	2/16	2/10	2/04	1/29	1/22	1/14	1/02
20	2/23	2/12	2/03	1/27	1/19	1/09	12/27	0/00	0/00
16	1/29	1/15	1/01	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	10/21	10/26	10/30	11/02	11/06	11/09	11/12	11/16	11/21
32	10/29	11/04	11/08	11/12	11/16	11/19	11/23	11/27	12/04
28	11/10	11/17	11/22	11/27	12/01	12/06	12/10	12/16	12/23
24	11/28	12/04	12/09	12/14	12/18	12/22	12/26	1/01	1/09
20	12/08	12/20	12/29	1/07	1/15	1/26	2/14	0/00	0/00
16	12/27	1/10	1/24	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	247	238	231	225	219	214	208	201	192
32	271	262	256	251	246	241	236	230	222
28	310	300	292	285	279	273	267	259	249
24	>365	340	329	321	315	308	301	294	283
20	>365	>365	>365	>365	>365	349	336	324	310
16	>365	>365	>365	>365	>365	>365	>365	>365	347

***** 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	557	391	223	74	5	0	0	0	1	60	257	482	2050
60	417	267	121	22	0	0	0	0	0	18	152	343	1340
57	340	204	75	8	0	0	0	0	0	7	104	269	1007
55	293	168	52	4	0	0	0	0	0	4	77	226	824
50	197	95	16	0	0	0	0	0	0	0	31	138	477
32	16	2	0	0	0	0	0	0	0	0	0	5	23

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	493	544	826	992	1272	1410	1535	1528	1342	1082	759	555	12338
55	57	67	164	306	559	720	822	815	652	372	146	63	4743
57	42	47	126	250	497	660	760	753	592	314	113	44	4198
60	25	26	78	174	404	570	667	660	502	232	71	25	3434
65	3	9	26	76	254	420	512	505	354	119	25	9	2312
70	0	0	6	21	125	271	357	350	214	45	7	0	1396

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	296	375	599	766	1036	1188	1301	1292	1114	849	546	347	296	671	1270	2036	3072	4260	5561	6853	7967	8816	9362	9709
45	187	252	450	616	881	1038	1146	1137	964	695	407	230	187	439	889	1505	2386	3424	4570	5707	6671	7366	7773	8003
50	109	159	315	468	726	888	991	982	814	541	279	138	109	268	583	1051	1777	2665	3656	4638	5452	5993	6272	6410
55	54	83	191	329	571	738	836	827	664	391	174	75	54	137	328	657	1228	1966	2802	3629	4293	4684	4858	4933
60	22	38	97	202	416	588	681	672	514	256	92	35	22	60	157	359	775	1363	2044	2716	3230	3486	3578	3613
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	190	240	376	502	704	812	876	866	754	562	348	228	190	430	806	1308	2012	2824	3700	4566	5320	5882	6230	6458

(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