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: GRAND COTEAU, LA **COOP ID: 163800**

Climate Division: LA 5 **NWS Call Sign:** **Elevation: 55 Feet** **Lat: 30˚26N** **Lon: 92˚02W**

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	62.2	41.2	51.7	83	1965	8	58.7	1974	10+	1962	12	42.6	1977	430	4	.0	.0	26.0	.1	7.4	.0
Feb	66.2	44.1	55.2	90	2001	28	60.6	1999	13+	1951	2	46.2	1978	286	10	.0	.0	25.8	.2	4.2	.0
Mar	73.1	50.6	61.9	87	1967	15	67.3	1974	20	1980	2	57.5	1996	144	47	.0	.0	30.7	.0	1.3	.0
Apr	79.3	56.3	67.8	94	2001	30	73.3	1981	30	1987	5	63.6	1993	38	123	.0	.5	30.0	.0	.1	.0
May	86.3	64.3	75.3	99	1998	31	78.0	2000	44+	1954	4	72.2	1993	1	320	.0	5.8	31.0	.0	.0	.0
Jun	91.0	69.9	80.5	101+	1954	30	83.5	1998	52	1974	27	77.5	1976	0	464	@	19.6	30.0	.0	.0	.0
Jul	92.6	72.3	82.5	101+	1954	1	85.6	1998	58+	1967	15	80.5	1987	0	541	.3	24.7	31.0	.0	.0	.0
Aug	93.0	71.7	82.4	106	2000	31	85.8	1999	58+	1956	23	78.9	1992	0	537	.7	25.6	31.0	.0	.0	.0
Sep	89.0	67.2	78.1	106	2000	3	82.1	1980	42	1967	29	75.0	1974	0	393	.2	14.7	30.0	.0	.0	.0
Oct	81.5	56.8	69.2	96	1998	1	73.1	1984	29+	1989	20	63.3	1976	32	160	.0	1.9	31.0	.0	.1	.0
Nov	71.8	49.0	60.4	89	1974	2	66.1	1973	20	1976	30	53.6	1976	191	54	.0	.0	29.4	.0	1.7	.0
Dec	64.9	43.0	54.0	84+	1956	8	62.9	1984	8	1989	23	45.1	1989	363	21	.0	.0	28.1	.1	5.9	.0
Ann	79.2	57.2	68.3	106+	Sep 2000	3	85.8	Aug 1999	8	Dec 1989	23	42.6	Jan 1977	1485	2674	1.2	92.8	354.0	.4	20.7	.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	6.49	6.17	8.40	1993	20	15.93	1998	1.03	1971
Feb	4.55	4.29	7.32	1955	5	11.20	1988	.73	2000
Mar	4.79	3.89	5.32	1973	24	12.97	1973	1.61	1981
Apr	5.13	5.07	7.65	1967	14	15.40	1979	.58	1987
May	5.80	5.01	8.25	1980	16	15.89	1991	.01	1998
Jun	6.06	5.52	6.05	1992	30	16.56	1989	.43	1979
Jul	5.95	4.67	10.00	1989	14	19.31	1989	.88	1980
Aug	4.60	4.29	5.30	1978	29	10.34	1988	.40	1999
Sep	4.68	4.45	5.75	1971	16	12.62	1973	.87	1997
Oct	4.46	3.14	6.85	1980	18	18.91	1985	.54	1989
Nov	5.45	5.15	6.00	1993	15	12.59	2000	1.47	1999
Dec	5.33	4.44	8.67	1982	26	16.97	1982	1.92	1980
Ann	63.29	65.71	10.00	Jul 1989	14	19.31	Jul 1989	.01	May 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.7	7.9	3.8	1.7
Feb	8.7	6.0	3.0	1.7
Mar	9.4	6.5	3.4	1.7
Apr	7.9	5.2	2.8	1.5
May	9.1	6.2	3.7	1.8
Jun	10.7	8.0	4.1	2.0
Jul	12.0	8.0	3.7	1.7
Aug	10.3	6.8	2.9	1.4
Sep	9.5	6.1	2.9	1.3
Oct	6.5	4.7	2.6	1.3
Nov	9.4	6.7	3.4	1.8
Dec	10.1	6.3	3.6	1.6
Ann	115.3	78.4	39.9	19.5

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	1.40	1.99	2.95	3.81	4.67	5.60	6.64	7.88	9.52	12.14	14.62
Feb	1.01	1.43	2.10	2.70	3.30	3.94	4.66	5.53	6.67	8.48	10.19
Mar	1.24	1.70	2.39	3.00	3.61	4.24	4.95	5.78	6.87	8.60	10.21
Apr	.58	.97	1.68	2.40	3.16	4.02	5.02	6.27	7.96	10.76	13.49
May	.74	1.20	2.02	2.83	3.68	4.63	5.73	7.09	8.93	11.95	14.87
Jun	1.28	1.84	2.73	3.53	4.35	5.22	6.20	7.37	8.92	11.40	13.74
Jul	1.46	2.02	2.89	3.66	4.42	5.23	6.13	7.20	8.60	10.82	12.91
Aug	.98	1.41	2.08	2.69	3.31	3.96	4.70	5.58	6.75	8.62	10.38
Sep	1.10	1.54	2.23	2.84	3.45	4.09	4.81	5.67	6.80	8.59	10.27
Oct	.75	1.14	1.79	2.40	3.03	3.71	4.50	5.45	6.72	8.77	10.74
Nov	1.79	2.31	3.07	3.71	4.34	4.98	5.68	6.51	7.56	9.21	10.72
Dec	1.65	2.16	2.91	3.56	4.18	4.83	5.55	6.38	7.46	9.15	10.71
Ann	46.51	49.80	54.00	57.17	59.97	62.67	65.46	68.52	72.23	77.59	82.21

\+ 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)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	#	.0	#	0
Feb	.1	.0	#	0
Mar	#	.0	0	0
Apr	.0	.0	0	0
May	.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
Ann	.1	.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	#	1985	3	#+	1985	2	1973	11	#+	1982
Feb	1.5	1973	9	1.5	1973	2	1973	9	#+	1988
Mar	#	1993	12	#+	1993	0	0	0	0	0
Apr	.0	0	0	.0	0	0	0	0	0	0
May	.0	0	0	.0	0	#	1996	11	#	1996
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	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1997	14	#	1997	#	1997	14	#	1997
Ann	1.5	Feb 1973	9	1.5	Feb 1973	2+	Feb 1973	9	#+	Dec 1997

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.1	.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	.0	.0	.0	.0	.0
Ann	.1	.1	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.1	.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	.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	4/07	3/31	3/26	3/22	3/17	3/13	3/09	3/04	2/25
32	3/20	3/13	3/07	3/02	2/25	2/21	2/16	2/10	2/02
28	3/15	3/05	2/26	2/20	2/15	2/09	2/03	1/27	1/18
24	2/26	2/15	2/07	1/31	1/24	1/16	1/07	12/20	0/00
20	1/31	1/19	1/08	12/25	0/00	0/00	0/00	0/00	0/00
16	1/08	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	11/06	11/10	11/13	11/16	11/20	11/24	11/30
32	11/03	11/10	11/16	11/20	11/25	11/29	12/04	12/09	12/16
28	11/16	11/24	11/29	12/03	12/07	12/12	12/16	12/21	12/29
24	12/01	12/13	12/21	12/29	1/06	1/14	1/24	2/12	0/00
20	12/17	12/31	1/12	1/27	0/00	0/00	0/00	0/00	0/00
16	1/15	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	268	259	252	246	240	234	228	221	211
32	301	291	284	277	271	266	259	252	242
28	327	316	308	301	295	289	282	274	263
24	>365	>365	>365	>365	352	332	321	310	298
20	>365	>365	>365	>365	>365	>365	>365	>365	334
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	430	286	144	38	1	0	0	0	0	32	191	363	1485
60	305	172	62	8	0	0	0	0	0	7	106	242	902
57	240	119	31	2	0	0	0	0	0	3	68	183	646
55	204	90	18	1	0	0	0	0	0	1	48	150	512
50	124	36	3	0	0	0	0	0	0	0	17	78	258
32	6	0	0	0	0	0	0	0	0	0	0	0	6

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	617	648	927	1075	1342	1454	1564	1560	1383	1152	853	681	13256
55	102	95	232	386	629	764	851	847	693	440	211	118	5368
57	76	68	183	327	567	704	789	785	633	379	171	89	4771
60	48	36	121	243	474	614	696	692	543	291	119	55	3932
65	4	10	47	123	320	464	541	537	393	160	54	21	2674
70	3	0	12	44	173	314	386	382	246	65	18	8	1651

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	381	445	677	834	1091	1211	1318	1317	1140	903	610	443	381	826	1503	2337	3428	4639	5957	7274	8414	9317	9927	10370
45	257	319	523	684	936	1061	1163	1162	990	748	468	311	257	576	1099	1783	2719	3780	4943	6105	7095	7843	8311	8622
50	159	206	378	534	781	911	1008	1007	840	593	331	196	159	365	743	1277	2058	2969	3977	4984	5824	6417	6748	6944
55	80	114	244	386	626	761	853	852	690	442	212	111	80	194	438	824	1450	2211	3064	3916	4606	5048	5260	5371
60	38	55	133	250	471	611	698	697	540	296	119	57	38	93	226	476	947	1558	2256	2953	3493	3789	3908	3965
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	225	269	426	547	757	844	912	901	790	608	387	275	225	494	920	1467	2224	3068	3980	4881	5671	6279	6666	6941

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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