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: GALLIANO, LA **COOP ID: 163433**

Climate Division: LA 9 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 29˚27N** **Lon: 90˚18W**

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	63.0	43.0	53.0	83	1972	1	63.3	1974	14	1985	21	44.1	1977	404	18	.0	.0	27.3	@	5.1	.0
Feb	65.4	45.9	55.7	82	1975	3	61.2	1990	19	1996	6	46.9	1978	270	9	.0	.0	26.4	@	2.0	.0
Mar	71.4	53.1	62.3	86+	1981	31	66.9	1997	26	1980	2	56.7	1996	137	51	.0	.0	30.6	.0	.5	.0
Apr	76.7	59.1	67.9	91	1987	28	73.4	1981	35	1971	7	62.8	1993	37	124	.0	@	30.0	.0	.0	.0
May	83.5	66.7	75.1	95	1977	31	77.8	2000	48+	1976	3	71.0	1993	1	314	.0	1.2	31.0	.0	.0	.0
Jun	88.2	72.0	80.1	99	1969	30	83.2	1981	50	1984	1	78.0	1979	0	452	.0	10.8	30.0	.0	.0	.0
Jul	90.0	73.8	81.9	100+	1971	16	84.3	1998	65+	1970	13	80.0	1971	0	523	.1	18.3	31.0	.0	.0	.0
Aug	89.8	73.7	81.8	100	1980	23	84.3	1999	62	1976	11	79.3	1992	0	519	@	18.5	31.0	.0	.0	.0
Sep	86.4	70.6	78.5	97+	1980	11	82.0	1972	52	1975	26	75.9	1983	0	405	.0	8.1	30.0	.0	.0	.0
Oct	79.4	60.4	69.9	94+	1998	2	74.0	1984	34	1989	20	63.3	1976	31	183	.0	.6	31.0	.0	.0	.0
Nov	71.8	52.6	62.2	86+	1973	10	68.3	1985	24	1976	30	55.1	1976	157	73	.0	.0	29.7	.0	.4	.0
Dec	65.3	45.3	55.3	82+	1978	8	63.6	1971	10	1989	23	46.9	1989	322	22	.0	.0	28.7	.1	3.4	.0
Ann	77.6	59.7	68.6	100+	Aug 1980	23	84.3+	Aug 1999	10	Dec 1989	23	44.1	Jan 1977	1359	2693	.1	57.5	356.7	.1	11.4	.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: 1968-2001

(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	5.85	3.92	7.02	1998	6	19.16	1998	1.25	1981
Feb	4.59	4.12	6.90	1981	11	14.14	1981	.49	1989
Mar	5.53	5.16	4.79	2000	19	11.80	1973	1.47	1986
Apr	4.43	3.50	8.00	1974	15	15.25	1973	.18	1999
May	5.75	4.21	9.90	1975	30	18.87	1975	.25	1998
Jun	5.82	5.60	5.50	2001	11	15.56	1987	.22	1979
Jul	7.69	8.07	4.93	1991	5	12.68	1997	2.12	1998
Aug	7.13	6.58	7.80	1984	2	19.24	1992	1.82	1986
Sep	6.34	5.20	4.65	1974	8	21.35	1998	1.48	1976
Oct	3.65	3.02	5.73	1985	27	18.62	1985	.12	1978
Nov	4.67	4.27	4.05	1998	11	14.13	1992	.37	1999
Dec	4.03	3.78	6.20	1982	4	10.21	1982	1.40	1985
Ann	65.48	65.20	9.90	May 1975	30	21.35	Sep 1998	.12	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.6	7.1	3.7	1.8
Feb	8.1	5.9	2.8	1.4
Mar	8.3	6.1	3.5	2.0
Apr	5.6	4.0	2.2	1.4
May	7.1	5.3	3.0	1.7
Jun	11.2	7.9	3.8	1.9
Jul	14.6	10.9	5.1	2.3
Aug	13.5	9.4	4.4	2.1
Sep	10.5	7.9	4.0	2.1
Oct	6.0	4.1	2.0	1.1
Nov	7.6	5.6	2.9	1.7
Dec	8.4	5.5	2.6	1.3
Ann	110.5	79.7	40.0	20.8

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	1.14	1.67	2.53	3.32	4.12	4.98	5.95	7.12	8.68	11.17	13.54
Feb	.68	1.06	1.73	2.36	3.02	3.75	4.58	5.60	6.98	9.21	11.36
Mar	1.96	2.48	3.23	3.87	4.47	5.09	5.77	6.56	7.57	9.13	10.56
Apr	.24	.48	1.01	1.60	2.29	3.09	4.07	5.34	7.11	10.15	13.18
May	.42	.79	1.53	2.32	3.20	4.22	5.44	6.99	9.13	12.75	16.32
Jun	1.07	1.58	2.44	3.23	4.03	4.90	5.89	7.09	8.68	11.25	13.69
Jul	3.22	3.92	4.91	5.71	6.47	7.24	8.06	9.01	10.22	12.05	13.71
Aug	1.76	2.43	3.47	4.39	5.31	6.27	7.35	8.62	10.30	12.95	15.43
Sep	1.51	2.10	3.03	3.85	4.67	5.54	6.52	7.68	9.20	11.61	13.87
Oct	.33	.59	1.07	1.58	2.13	2.76	3.51	4.44	5.73	7.87	9.98
Nov	.64	1.02	1.69	2.34	3.02	3.77	4.64	5.71	7.15	9.50	11.77
Dec	1.49	1.87	2.41	2.87	3.30	3.74	4.22	4.78	5.49	6.58	7.58
Ann	46.90	50.51	55.12	58.62	61.72	64.72	67.82	71.24	75.38	81.39	86.58

\+ 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: 1968-2001
(3) Derived from 1971-2000 serially complete daily data

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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	0
Feb	#	.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
Ann	#	.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	21	#	1985	0	0	0	0	0
Feb	#	1988	7	#+	1988	#	1988	6	#	1988
Mar	.0	0	0	.0	0	0	0	0	0	0
Apr	.0	0	0	.0	0	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	.0	0	0	.0	0	0	0	0	0	0
Dec	#	1989	22	#	1989	#	1989	24	#	1989
Ann	#+	Dec 1989	22	#+	Dec 1989	#+	Dec 1989	24	#+	Dec 1989

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	.0	.0	.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	.0	.0	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.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	.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	3/24	3/16	3/10	3/05	3/01	2/24	2/19	2/13	2/06
32	3/09	2/27	2/21	2/15	2/09	2/03	1/28	1/21	1/12
28	2/24	2/14	2/06	1/29	1/21	1/12	12/26	0/00	0/00
24	1/23	1/12	12/31	0/00	0/00	0/00	0/00	0/00	0/00
20	1/15	1/01	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/27	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	11/08	11/15	11/20	11/24	11/29	12/03	12/07	12/12	12/19
32	11/23	11/30	12/05	12/10	12/14	12/18	12/23	12/28	1/05
28	12/08	12/16	12/23	12/28	1/04	1/11	1/24	0/00	0/00
24	12/22	12/30	1/06	1/18	0/00	0/00	0/00	0/00	0/00
20	1/02	1/14	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/14	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	300	291	284	278	272	267	261	254	244
32	341	328	320	313	306	300	293	286	275
28	>365	>365	>365	>365	>365	330	318	308	296
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	404	270	137	37	1	0	0	0	0	31	157	322	1359
60	285	156	57	7	0	0	0	0	0	8	81	205	799
57	226	105	28	2	0	0	0	0	0	3	48	150	562
55	193	77	16	1	0	0	0	0	0	1	32	118	438
50	116	28	2	0	0	0	0	0	0	0	10	54	210
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	656	663	937	1078	1336	1442	1546	1542	1395	1175	905	723	13398
55	130	96	240	388	623	752	833	829	705	464	248	128	5436
57	102	68	190	330	561	692	771	767	645	403	203	97	4829
60	67	35	127	245	468	602	678	674	555	315	147	59	3972
65	18	9	51	124	314	452	523	519	405	183	73	22	2693
70	14	0	13	45	171	302	368	364	257	83	27	7	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	426	480	696	844	1089	1212	1310	1305	1169	936	673	495	426	906	1602	2446	3535	4747	6057	7362	8531	9467	10140	10635
45	295	342	541	694	934	1062	1155	1150	1019	781	525	355	295	637	1178	1872	2806	3868	5023	6173	7192	7973	8498	8853
50	184	222	396	544	779	912	1000	995	869	626	383	231	184	406	802	1346	2125	3037	4037	5032	5901	6527	6910	7141
55	106	126	255	395	624	762	845	840	719	472	259	139	106	232	487	882	1506	2268	3113	3953	4672	5144	5403	5542
60	49	58	143	256	469	612	690	685	569	323	151	76	49	107	250	506	975	1587	2277	2962	3531	3854	4005	4081
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	249	274	426	554	774	868	930	932	836	629	419	292	249	523	949	1503	2277	3145	4075	5007	5843	6472	6891	7183

(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