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: BURAS, LA **COOP ID: 161292**

Climate Division: LA 9 **NWS Call Sign:** **Elevation: 5 Feet** **Lat: 29˚20N** **Lon: 89˚31W**

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	61.3	44.7	53.0	83+	1949	23	63.3	1974	10	1962	12	43.6	1977	400	14	.0	.0	27.9	.0	4.0	.0
Feb	63.7	48.4	56.1	83+	1957	5	61.0	1999	18	1951	2	46.1	1978	262	13	.0	.0	26.8	.1	2.9	.0
Mar	69.6	54.5	62.1	95	1964	14	66.7	1997	28	1954	7	57.9	1996	139	47	.0	.0	30.7	.0	.2	.0
Apr	75.7	60.8	68.3	90	1948	30	73.0	1981	41	1962	3	64.1	1983	31	128	.0	@	30.0	.0	.0	.0
May	81.8	68.8	75.3	95+	1948	20	78.7	2000	47	1960	13	71.1	1976	1	322	.0	.7	31.0	.0	.0	.0
Jun	87.1	74.5	80.8	99	1952	15	83.6	1998	55	1956	3	78.5	1976	0	474	.0	7.8	30.0	.0	.0	.0
Jul	88.6	75.8	82.2	100	1952	25	84.5	1980	66+	1953	13	80.4	1972	0	533	.1	15.7	31.0	.0	.0	.0
Aug	88.2	76.0	82.1	100+	1951	30	85.2	1999	61	1955	1	79.6	1992	0	530	.0	16.8	31.0	.0	.0	.0
Sep	85.4	73.6	79.5	96+	1964	1	83.4	1980	53	1953	23	76.4	1975	0	434	.0	7.1	30.0	.0	.0	.0
Oct	78.1	64.8	71.5	92	1959	1	76.0	1984	36+	1957	29	65.4	1976	21	221	.0	.5	31.0	.0	.0	.0
Nov	71.1	56.7	63.9	85+	1955	13	69.9	1985	31	1959	30	55.1	1976	130	97	.0	.0	29.7	.0	.9	.0
Dec	63.9	48.6	56.3	83	1951	7	64.9	1984	14	1989	23	47.8	1989	302	31	.0	.0	29.2	.1	3.2	.0
Ann	76.2	62.3	69.3	100+	Jul 1952	25	85.2	Aug 1999	10	Jan 1962	12	43.6	Jan 1977	1286	2844	.1	48.6	358.3	.2	11.2	.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

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	5.20	4.34	4.30	1998	7	18.53	1998	.87	1981
Feb	3.47	3.19	4.68	1966	27	6.69	1987	.55	2000
Mar	6.17	5.60	6.80	1991	1	14.00	1995	2.12	1994
Apr	3.78	3.03	4.60	1991	18	20.41	1991	.04	1999
May	3.40	3.44	7.49	1948	29	7.57	1980	.55	1998
Jun	5.45	4.77	6.65	1959	9	11.18	1989	1.35	1977
Jul	7.15	7.33	7.00	1997	18	16.00	1997	2.12	1983
Aug	6.05	5.79	5.30	2001	12	13.33	1977	2.28	1980
Sep	6.91	6.10	4.93	1949	4	17.86	1973	1.40	1997
Oct	3.48	3.10	4.93	1967	30	11.59	1985	.04	1978
Nov	3.93	3.03	6.12	1953	20	13.58	1992	.00	1999
Dec	4.84	4.60	4.00	2001	23	12.27	1982	1.89	2000
Ann	59.83	61.11	7.49	May 1948	29	20.41	Apr 1991	.00	Nov 1999

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.3	3.9	1.9	.9
Feb	4.2	3.1	1.7	.8
Mar	10.2	6.9	3.6	1.8
Apr	7.0	4.8	2.4	1.4
May	6.6	5.1	2.7	1.2
Jun	5.1	4.1	1.9	1.0
Jul	12.3	9.3	4.1	1.8
Aug	9.3	6.8	2.6	1.1
Sep	3.9	3.8	1.7	.9
Oct	6.5	4.4	2.1	1.1
Nov	7.6	5.3	2.6	1.0
Dec	4.5	3.5	1.4	.8
Ann	82.5	61.0	28.7	13.8

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	1.08	1.55	2.32	3.01	3.72	4.46	5.31	6.33	7.67	9.82	11.86
Feb	.89	1.22	1.72	2.17	2.61	3.07	3.58	4.19	4.99	6.25	7.42
Mar	2.34	2.92	3.74	4.43	5.08	5.74	6.46	7.29	8.35	9.98	11.47
Apr	.26	.49	.97	1.48	2.06	2.74	3.55	4.58	6.01	8.44	10.84
May	.77	1.09	1.59	2.03	2.48	2.95	3.49	4.12	4.96	6.29	7.54
Jun	2.14	2.64	3.36	3.96	4.52	5.09	5.71	6.43	7.34	8.74	10.01
Jul	2.83	3.49	4.43	5.20	5.93	6.68	7.48	8.41	9.59	11.40	13.05
Aug	2.40	2.96	3.75	4.41	5.02	5.65	6.33	7.12	8.12	9.64	11.03
Sep	2.51	3.15	4.09	4.88	5.62	6.39	7.22	8.19	9.43	11.34	13.09
Oct	.22	.43	.86	1.33	1.87	2.49	3.24	4.21	5.55	7.83	10.09
Nov	.46	.95	1.61	2.17	2.74	3.34	4.02	4.84	5.92	7.65	9.29
Dec	1.88	2.33	2.96	3.50	4.00	4.51	5.07	5.71	6.52	7.78	8.92
Ann	43.69	46.84	50.87	53.91	56.60	59.20	61.88	64.83	68.40	73.57	78.02

\+ 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

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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	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
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	.0	0	0	.0	0	0	0	0	0	0
Feb	.0	0	0	.0	0	0	0	0	0	0
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	23	#	1989	#	1989	24	#	1989
Ann	#	Dec 1989	23	#	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	3/26	3/14	3/06	2/27	2/20	2/13	2/06	1/28	1/16
32	3/06	2/24	2/17	2/10	2/03	1/26	1/11	0/00	0/00
28	2/23	2/08	1/26	1/09	0/00	0/00	0/00	0/00	0/00
24	2/09	1/23	1/05	0/00	0/00	0/00	0/00	0/00	0/00
20	1/06	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	10/30	11/17	11/30	12/11	12/22	1/01	1/13	1/26	2/13
32	11/17	12/05	12/18	12/31	1/13	1/29	2/27	0/00	0/00
28	12/03	12/17	12/29	1/14	0/00	0/00	0/00	0/00	0/00
24	12/18	12/28	1/09	0/00	0/00	0/00	0/00	0/00	0/00
20	1/04	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	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	>365	359	333	315	300	286	272	256	234
32	>365	>365	>365	>365	>365	326	300	281	258
28	>365	>365	>365	>365	>365	>365	313	301	291
24	>365	>365	>365	>365	>365	>365	>365	341	320
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)

Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	400	262	139	31	1	0	0	0	0	21	130	302	1286
60	283	155	59	5	0	0	0	0	0	5	63	193	763
57	225	107	29	1	0	0	0	0	0	2	36	141	541
55	191	79	16	0	0	0	0	0	0	1	24	111	422
50	115	30	3	0	0	0	0	0	0	0	7	51	206
32	6	0	0	0	0	0	0	0	0	0	0	0	6

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	658	674	932	1087	1344	1464	1556	1553	1424	1223	957	752	13624
55	130	109	235	397	631	774	843	840	734	510	291	150	5644
57	102	81	185	338	569	714	781	778	674	449	243	118	5032
60	67	45	122	252	476	624	688	685	584	360	180	77	4160
65	14	13	47	128	322	474	533	530	434	221	97	31	2844
70	14	2	11	45	177	324	378	375	285	111	40	11	1773

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	437	478	684	855	1097	1233	1320	1321	1173	959	687	482	437	915	1599	2454	3551	4784	6104	7425	8598	9557	10244	10726
45	294	344	529	705	942	1083	1165	1166	1023	804	538	339	294	638	1167	1872	2814	3897	5062	6228	7251	8055	8593	8932
50	177	221	380	555	787	933	1010	1011	873	649	396	209	177	398	778	1333	2120	3053	4063	5074	5947	6596	6992	7201
55	81	120	235	406	632	783	855	856	723	494	268	105	81	201	436	842	1474	2257	3112	3968	4691	5185	5453	5558
60	26	48	118	262	477	633	700	701	573	342	156	41	26	74	192	454	931	1564	2264	2965	3538	3880	4036	4077
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	225	267	406	561	783	903	945	954	843	649	429	261	225	492	898	1459	2242	3145	4090	5044	5887	6536	6965	7226

(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