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: NEW ORLEANS AUDUBON, LA **COOP ID: 166664**

Climate Division: LA 9 **NWS Call Sign:** **Elevation: 6 Feet** **Lat: 29˚55N** **Lon: 90˚08W**

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	62.7	45.3	54.0	82+	1982	7	63.3	1974	16+	1982	11	45.0	1977	369	14	.0	.0	27.0	@	2.9	.0
Feb	66.2	48.3	57.3	85	1989	15	62.3	1990	20	1996	5	49.3	1978	231	14	.0	.0	26.4	.0	1.0	.0
Mar	72.8	54.5	63.7	88	1982	18	67.4	2000	28	1980	2	59.3	1996	102	59	.0	.0	30.7	.0	.2	.0
Apr	78.6	59.9	69.3	93	1987	21	74.6	1981	37	1987	4	64.2	1973	27	155	.0	.3	30.0	.0	.0	.0
May	85.4	67.7	76.6	96+	1998	28	81.1	2000	51+	1965	1	71.3	1973	1	359	.0	6.0	31.0	.0	.0	.0
Jun	90.1	73.1	81.6	99+	1990	19	85.1	1998	54	1984	1	78.4	1976	0	499	.0	18.5	30.0	.0	.0	.0
Jul	91.6	75.0	83.3	101+	1980	7	86.4	1998	64	1967	16	79.8	1972	0	567	.3	22.9	31.0	.0	.0	.0
Aug	91.7	74.9	83.3	103	2000	30	86.7	1999	64	1976	10	79.5	1984	0	567	.3	23.1	31.0	.0	.0	.0
Sep	87.9	71.7	79.8	101+	2000	2	84.8	1980	50	1967	30	76.1	1983	0	444	.1	13.5	30.0	.0	.0	.0
Oct	80.5	62.1	71.3	97+	1990	9	75.4	1984	37	1993	31	63.3	1976	21	217	.0	1.4	31.0	.0	.0	.0
Nov	71.7	53.6	62.7	87	1996	1	68.2	1985	29+	1970	24	52.5	1976	161	90	.0	.0	29.6	.0	.1	.0
Dec	65.3	47.6	56.5	84+	1977	5	65.0	1984	12	1989	23	48.3	1989	296	31	.0	.0	28.6	.1	1.4	.0
Ann	78.7	61.1	70.0	103	Aug 2000	30	86.7	Aug 1999	12	Dec 1989	23	45.0	Jan 1977	1208	3016	.7	85.7	356.3	.1	5.6	.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

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1962-2001

(3) Derived from 1971-2000 serially complete daily data

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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	5.52	3.94	5.45	1965	22	19.80	1991	1.20	1981
Feb	4.66	4.63	6.06	1967	6	12.44	1979	.07	1989
Mar	5.28	4.70	4.27	1973	24	10.17	1973	1.97	1981
Apr	4.99	3.41	7.75	1983	7	20.24	1980	.04	1999
May	5.07	3.74	10.94	1995	8	15.79	1995	.04	2000
Jun	6.29	4.78	7.80	1991	10	17.90	1991	.39	1977
Jul	6.97	6.18	3.59	1966	31	16.00	1991	1.49	2000
Aug	6.34	5.79	4.12	1992	26	17.82	1977	2.57	2000
Sep	6.04	4.98	10.20	1998	11	22.22	1998	.80	1976
Oct	2.90	2.24	7.91	1985	29	17.51	1985	.01	1978
Nov	5.02	3.90	6.21	1989	7	14.79	1992	.41	1999
Dec	4.65	4.11	4.10	1973	25	10.68	1983	1.43	1987
Ann	63.73	62.35	10.94	May 1995	8	22.22	Sep 1998	.01	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	7.1	3.6	1.8
Feb	8.5	5.9	2.9	1.6
Mar	9.1	6.0	3.2	2.0
Apr	7.2	4.8	2.5	1.4
May	8.5	5.9	2.7	1.4
Jun	11.9	8.3	3.9	1.9
Jul	15.9	10.9	5.1	2.3
Aug	14.1	9.9	4.3	1.9
Sep	11.5	7.6	3.6	2.0
Oct	6.6	3.8	1.8	.8
Nov	8.6	5.9	3.2	1.9
Dec	9.3	6.0	3.1	1.6
Ann	121.6	82.1	39.9	20.6

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	1.06	1.56	2.37	3.11	3.87	4.69	5.61	6.73	8.20	10.58	12.83
Feb	.58	.95	1.61	2.26	2.95	3.71	4.60	5.69	7.17	9.61	11.97
Mar	2.22	2.70	3.38	3.93	4.44	4.97	5.53	6.18	7.00	8.25	9.38
Apr	.22	.47	1.03	1.69	2.46	3.37	4.51	5.97	8.06	11.65	15.25
May	.39	.73	1.38	2.08	2.86	3.75	4.82	6.17	8.03	11.17	14.26
Jun	.96	1.49	2.40	3.27	4.17	5.16	6.29	7.68	9.54	12.57	15.48
Jul	2.78	3.42	4.33	5.09	5.80	6.52	7.30	8.21	9.35	11.11	12.71
Aug	2.28	2.88	3.74	4.46	5.15	5.86	6.63	7.52	8.67	10.43	12.05
Sep	1.05	1.58	2.46	3.29	4.13	5.05	6.10	7.36	9.05	11.78	14.39
Oct	.18	.35	.70	1.10	1.54	2.07	2.70	3.51	4.64	6.56	8.47
Nov	.93	1.38	2.11	2.79	3.49	4.24	5.09	6.12	7.49	9.69	11.79
Dec	1.41	1.85	2.51	3.08	3.63	4.21	4.83	5.57	6.53	8.02	9.41
Ann	40.74	45.01	50.58	54.87	58.73	62.49	66.42	70.80	76.16	84.02	90.90

\+ 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: 1962-2001
(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	#	1985	20	#+	1985	#	1973	12	#	1973	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.8	1973	9	.8	1973	1	1973	10	#	1973	@	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1980	2	#	1980	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	#	1989	22	#+	1989	#	1989	24	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	#	.0	N/A	N/A	.8	Feb 1973	9	.8	Feb 1973	1	Feb 1973	10	#+	Dec 1989	@	.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	3/15	3/07	3/01	2/24	2/20	2/15	2/10	2/05	1/28
32	2/28	2/18	2/11	2/05	1/30	1/23	1/16	1/06	0/00
28	2/06	1/27	1/19	1/11	1/01	0/00	0/00	0/00	0/00
24	1/13	0/00	0/00	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	11/23	11/29	12/04	12/08	12/12	12/16	12/20	12/25	1/01
32	12/03	12/13	12/20	12/26	1/01	1/07	1/15	1/24	0/00
28	12/20	12/29	1/04	1/11	1/19	2/02	0/00	0/00	0/00
24	1/11	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	1/15	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	325	315	307	301	295	289	282	275	264
32	>365	>365	>365	344	331	322	314	305	294
28	>365	>365	>365	>365	>365	>365	>365	347	325
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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	369	231	102	27	1	0	0	0	0	21	161	296	1208
60	254	127	34	5	0	0	0	0	0	5	87	187	699
57	198	82	14	1	0	0	0	0	0	2	54	136	487
55	165	57	7	0	0	0	0	0	0	1	38	106	374
50	91	19	0	0	0	0	0	0	0	0	14	47	171
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	682	707	980	1118	1381	1489	1590	1590	1434	1219	920	758	13868
55	134	121	274	428	668	799	877	877	744	507	268	151	5848
57	105	89	219	369	606	739	815	815	684	446	224	119	5230
60	68	50	146	283	513	649	722	722	594	356	167	77	4347
65	14	14	59	155	359	499	567	567	444	217	90	31	3016
70	12	1	14	66	215	349	412	412	295	106	38	11	1931

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	455	513	745	891	1153	1265	1361	1359	1209	988	697	531	455	968	1713	2604	3757	5022	6383	7742	8951	9939	10636	11167
45	316	373	592	741	998	1115	1206	1204	1059	833	548	384	316	689	1281	2022	3020	4135	5341	6545	7604	8437	8985	9369
50	201	252	441	591	843	965	1051	1049	909	678	404	260	201	453	894	1485	2328	3293	4344	5393	6302	6980	7384	7644
55	114	151	298	442	688	815	896	894	759	523	271	155	114	265	563	1005	1693	2508	3404	4298	5057	5580	5851	6006
60	54	78	173	297	533	665	741	739	609	371	167	86	54	132	305	602	1135	1800	2541	3280	3889	4260	4427	4513
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	255	290	459	595	817	896	959	959	862	673	431	303	255	545	1004	1599	2416	3312	4271	5230	6092	6765	7196	7499

(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