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: ELIZABETH, LA **COOP ID: 162800**

Climate Division: LA 7 **NWS Call Sign:** **Elevation: 150 Feet** **Lat: 30˚51N** **Lon: 92˚47W**

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	59.7	36.5	48.1	81+	1950	31	54.6	1989	6	1948	24	39.2	1977	533	3	.0	.0	24.5	.3	12.5	.0
Feb	64.2	39.8	52.0	86	1986	27	58.0	1990	6	1951	2	42.0	1978	371	7	.0	.0	24.6	.4	7.4	.0
Mar	71.7	47.2	59.5	91	1974	31	65.0	1974	20	1968	1	54.5	1996	199	27	.0	@	29.9	.0	2.2	.0
Apr	77.8	53.3	65.6	93+	1955	29	71.2	1981	30	1987	4	61.1	1983	70	87	.0	.3	30.0	.0	.2	.0
May	84.5	62.3	73.4	100	1951	31	77.0	1998	42+	1960	13	69.6	1976	5	265	.0	4.4	31.0	.0	.0	.0
Jun	90.0	68.6	79.3	101+	1948	25	83.9	1998	49	1984	1	76.3	1976	0	429	.4	18.4	30.0	.0	.0	.0
Jul	92.7	71.0	81.9	105	1980	18	85.5	1998	54	1967	16	79.2	1976	0	523	1.1	25.6	31.0	.0	.0	.0
Aug	92.8	70.3	81.6	108	2000	31	84.8	1999	54	1986	30	77.6	1992	0	513	1.0	25.1	31.0	.0	.0	.0
Sep	88.6	65.2	76.9	109	2000	1	81.6	1980	36	1967	29	73.8	1974	1	357	.3	15.7	30.0	.0	.0	.0
Oct	80.3	53.8	67.1	98	1953	1	71.5	1973	28+	1976	21	59.3	1976	60	123	.0	2.2	31.0	.0	.2	.0
Nov	70.3	45.6	58.0	90	1971	3	64.4	1973	22	1976	30	50.8	1976	243	30	.0	@	29.1	.0	3.1	.0
Dec	62.5	38.7	50.6	83+	1995	4	60.2	1984	8	1989	23	41.3	1989	459	12	.0	.0	26.8	.2	9.3	.0
Ann	77.9	54.4	66.2	109	Sep 2000	1	85.5	Jul 1998	6+	Feb 1951	2	39.2	Jan 1977	1941	2376	2.8	91.7	348.9	.9	34.9	.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: 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	6.23	5.50	6.25	1987	18	13.17	1974	.83	2000
Feb	4.53	4.20	5.22	1955	5	12.18	1997	.45	2000
Mar	5.23	4.56	5.02	1965	1	11.41	1980	1.64	1978
Apr	4.68	4.22	9.68	1995	11	15.04	1995	.47	1987
May	6.13	5.92	10.52	1953	18	13.12	1989	.00	1998
Jun	5.84	5.59	6.33	1989	27	22.55	1989	.82	1979
Jul	4.85	4.04	3.91	1979	15	12.36	1979	1.07	1983
Aug	4.29	3.63	8.98	1983	3	10.38	1983	.57	1999
Sep	4.83	4.12	7.11	1979	20	14.78	1979	1.35	1989
Oct	4.87	3.73	9.48	1970	12	16.14	1984	.04	1978
Nov	5.96	5.61	9.16	1987	16	16.15	1987	1.67	1994
Dec	6.45	6.00	6.42	1962	21	17.98	1982	2.63	1989
Ann	63.89	63.69	10.52	May 1953	18	22.55	Jun 1989	.00	May 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.8	7.7	3.8	2.2
Feb	10.0	5.9	3.1	1.5
Mar	9.9	6.0	3.2	1.9
Apr	7.9	5.1	2.7	1.4
May	9.0	6.6	3.4	2.2
Jun	10.8	7.6	3.6	1.8
Jul	10.7	7.5	3.0	1.4
Aug	9.5	6.1	2.7	1.0
Sep	8.4	5.9	2.6	1.5
Oct	7.1	4.7	2.6	1.3
Nov	9.5	6.3	3.7	2.0
Dec	10.6	7.2	4.0	2.2
Ann	115.2	76.6	38.4	20.4

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	1.59	2.17	3.08	3.88	4.67	5.50	6.43	7.52	8.96	11.23	13.35
Feb	.99	1.41	2.07	2.67	3.28	3.92	4.64	5.50	6.64	8.46	10.17
Mar	1.57	2.07	2.81	3.45	4.07	4.72	5.43	6.27	7.36	9.05	10.62
Apr	.77	1.18	1.86	2.50	3.16	3.89	4.71	5.72	7.06	9.24	11.32
May	1.18	2.03	3.06	3.90	4.70	5.53	6.44	7.52	8.90	11.08	13.10
Jun	1.09	1.61	2.47	3.26	4.07	4.94	5.93	7.12	8.70	11.25	13.68
Jul	1.46	1.92	2.61	3.20	3.78	4.38	5.04	5.81	6.82	8.38	9.83
Aug	.88	1.27	1.90	2.48	3.06	3.68	4.38	5.22	6.34	8.12	9.81
Sep	1.26	1.72	2.42	3.04	3.64	4.28	4.99	5.84	6.93	8.67	10.29
Oct	.39	.71	1.35	2.02	2.77	3.62	4.64	5.93	7.71	10.69	13.63
Nov	1.96	2.52	3.35	4.06	4.74	5.44	6.21	7.11	8.26	10.05	11.71
Dec	2.56	3.16	4.00	4.70	5.36	6.03	6.76	7.60	8.67	10.30	11.78
Ann	45.48	49.05	53.62	57.09	60.17	63.15	66.23	69.63	73.75	79.73	84.90

\+ 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: 1948-2001
(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	.2	.0	#	0	2.0	1973	12	2.0	1973	#+	1985	4	#+	1985	.2	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.6	1988	6	.6	1988	1	1988	6	#	1988	.1	.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	#	1989	18	#	1989	#	1989	18	#	1989	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	2.0	Jan 1973	12	2.0	Jan 1973	1	Feb 1988	6	#+	Dec 1989	.3	.1	.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	4/13	4/06	4/02	3/29	3/25	3/21	3/17	3/13	3/06
32	4/01	3/24	3/19	3/14	3/09	3/05	2/28	2/22	2/14
28	3/17	3/08	3/02	2/24	2/19	2/14	2/09	2/03	1/25
24	3/01	2/20	2/13	2/07	2/01	1/26	1/19	1/10	0/00
20	2/09	1/29	1/20	1/12	1/02	12/16	0/00	0/00	0/00
16	1/14	12/27	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	10/22	10/28	11/02	11/06	11/09	11/13	11/17	11/21	11/27
32	10/30	11/06	11/10	11/14	11/18	11/21	11/25	11/30	12/06
28	11/08	11/17	11/23	11/28	12/03	12/08	12/13	12/19	12/28
24	11/29	12/10	12/18	12/25	12/31	1/07	1/15	1/26	0/00
20	12/16	12/26	1/02	1/10	1/20	0/00	0/00	0/00	0/00
16	1/06	1/25	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	253	245	239	233	228	223	218	212	203
32	280	271	264	258	253	247	242	235	225
28	319	308	299	292	286	279	272	264	252
24	>365	>365	>365	338	327	319	311	302	291
20	>365	>365	>365	>365	>365	>365	354	336	320
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	533	371	199	70	5	0	0	0	1	60	243	459	1941
60	392	246	100	20	0	0	0	0	0	19	143	323	1243
57	316	183	58	7	0	0	0	0	0	8	97	253	922
55	269	147	37	3	0	0	0	0	0	4	72	212	744
50	175	76	10	0	0	0	0	0	0	0	28	128	417
32	11	0	0	0	0	0	0	0	0	0	0	4	15

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	510	560	851	1006	1284	1419	1546	1536	1346	1086	778	581	12503
55	55	63	175	319	571	729	833	823	656	376	159	76	4835
57	39	43	134	264	509	669	771	761	596	318	125	55	4284
60	23	22	83	186	416	579	678	668	506	236	81	32	3510
65	3	7	27	87	265	429	523	513	357	123	30	12	2376
70	0	0	5	27	135	279	368	358	216	47	9	1	1445

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	303	382	619	782	1048	1190	1307	1299	1116	848	549	366	303	685	1304	2086	3134	4324	5631	6930	8046	8894	9443	9809
45	194	263	473	632	893	1040	1152	1144	966	694	409	238	194	457	930	1562	2455	3495	4647	5791	6757	7451	7860	8098
50	112	163	333	482	738	890	997	989	816	541	280	143	112	275	608	1090	1828	2718	3715	4704	5520	6061	6341	6484
55	56	89	207	335	583	740	842	834	666	391	171	76	56	145	352	687	1270	2010	2852	3686	4352	4743	4914	4990
60	23	41	112	209	428	590	687	679	516	256	91	38	23	64	176	385	813	1403	2090	2769	3285	3541	3632	3670
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	197	249	391	512	717	820	896	877	761	564	356	237	197	446	837	1349	2066	2886	3782	4659	5420	5984	6340	6577

(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