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: HOUMA, LA **COOP ID: 164407**

Climate Division: LA 9 **NWS Call Sign:** **Elevation: 15 Feet** **Lat: 29˚35N** **Lon: 90˚44W**

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	62.8	43.4	53.1	83+	1937	10	64.4	1974	12	1962	11	44.8	1977	400	16	.0	.0	26.7	.1	6.0	.0
Feb	65.7	46.6	56.2	86	1975	3	61.1	2000	13	1951	3	46.4	1978	261	12	.0	.0	26.3	.0	2.6	.0
Mar	71.8	53.6	62.7	88	1965	25	67.5	1997	23	1980	3	57.4	1996	131	59	.0	.0	30.5	.0	.6	.0
Apr	77.5	59.3	68.4	92+	1987	29	73.2	1999	32	1939	8	63.4	1993	34	135	.0	.1	30.0	.0	.0	.0
May	84.3	67.2	75.8	96	1953	28	79.4	2000	44	1952	12	72.4	1993	1	334	.0	3.1	31.0	.0	.0	.0
Jun	88.9	72.4	80.7	101	1930	27	83.4	1998	53+	1930	1	78.8	1983	0	469	.0	14.2	30.0	.0	.0	.0
Jul	90.7	74.2	82.5	100+	1932	16	84.6	1998	59	1967	16	80.3	1994	0	541	.0	21.8	31.0	.0	.0	.0
Aug	90.5	74.1	82.3	101	2000	31	85.4	1999	59	1989	10	79.7	1992	0	535	@	20.7	31.0	.0	.0	.0
Sep	87.2	70.6	78.9	100	1995	4	82.5	1986	44	1967	30	75.8	1975	0	417	@	11.0	30.0	.0	.0	.0
Oct	79.9	59.9	69.9	97	1998	2	74.9	1984	31	1952	30	63.0	1976	32	184	.0	1.0	31.0	.0	@	.0
Nov	72.1	52.1	62.1	89	1946	4	68.2	1985	22+	1940	16	53.3	1976	164	77	.0	.0	29.6	.0	.7	.0
Dec	65.6	45.2	55.4	84+	1956	7	64.1	1971	4	1960	21	45.8	1989	323	25	.0	.0	28.7	.1	3.9	.0
Ann	78.1	59.9	69.0	101+	Aug 2000	31	85.4	Aug 1999	4	Dec 1960	21	44.8	Jan 1977	1346	2804	.0	71.9	355.8	.2	13.8	.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: 1930-2001

(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	5.43	4.55	6.67	1936	1	15.53	1998	.67	1976
Feb	4.59	3.98	5.31	1961	21	11.45	1988	.02	1989
Mar	4.96	4.65	6.74	1933	12	9.84	1995	1.44	1986
Apr	4.46	3.14	6.92	1980	13	15.50	1980	.07	1999
May	5.35	4.03	11.35	1959	31	20.84	1991	.26	2000
Jun	5.96	5.40	7.65	2001	7	13.11	1999	.96	1972
Jul	7.85	8.44	7.17	1954	29	13.96	1994	1.62	1983
Aug	6.73	6.08	6.30	1992	26	14.20	1984	2.18	1980
Sep	6.28	5.08	9.40	1956	30	19.41	1973	.73	1995
Oct	3.11	2.11	6.26	1980	28	12.36	1985	.00	1978
Nov	4.55	3.93	7.75	1939	17	13.36	2000	.28	1999
Dec	4.40	3.86	5.88	1982	4	9.51	1982	1.56	1980
Ann	63.67	61.98	11.35	May 1959	31	20.84	May 1991	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	7.4	3.3	1.8
Feb	7.9	5.3	2.6	1.5
Mar	8.2	5.7	3.2	1.7
Apr	6.3	4.5	2.3	1.4
May	7.3	5.3	3.1	1.6
Jun	10.9	7.9	3.9	1.9
Jul	15.2	11.1	5.4	2.4
Aug	14.7	10.5	4.4	1.9
Sep	11.2	7.9	3.7	2.1
Oct	5.8	3.5	1.9	1.1
Nov	8.4	5.3	3.1	1.8
Dec	9.5	5.8	2.7	1.4
Ann	115.8	80.2	39.6	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	1.12	1.61	2.41	3.14	3.87	4.65	5.54	6.60	8.01	10.26	12.39
Feb	.33	.62	1.21	1.84	2.54	3.36	4.33	5.57	7.29	10.18	13.05
Mar	1.51	1.99	2.69	3.29	3.88	4.49	5.15	5.94	6.95	8.54	10.00
Apr	.28	.55	1.10	1.71	2.39	3.19	4.16	5.40	7.12	10.05	12.96
May	.53	.92	1.65	2.39	3.20	4.11	5.18	6.52	8.36	11.41	14.40
Jun	1.76	2.32	3.17	3.91	4.62	5.36	6.18	7.15	8.40	10.36	12.17
Jul	3.00	3.73	4.78	5.65	6.47	7.31	8.22	9.27	10.61	12.67	14.55
Aug	2.27	2.91	3.84	4.63	5.39	6.17	7.02	8.02	9.30	11.28	13.11
Sep	1.48	2.07	2.98	3.80	4.62	5.49	6.45	7.61	9.12	11.53	13.79
Oct	.18	.48	.96	1.41	1.90	2.43	3.06	3.83	4.88	6.60	8.28
Nov	.74	1.13	1.80	2.42	3.07	3.77	4.58	5.56	6.87	8.99	11.03
Dec	1.71	2.12	2.70	3.18	3.64	4.10	4.61	5.19	5.93	7.07	8.10
Ann	46.12	49.54	53.90	57.21	60.14	62.97	65.88	69.10	73.00	78.64	83.50

+ 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: 1930-2001
(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
Feb	.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	.1	.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	#	1982	14	#	1982	#	1982	14	#	1982
Feb	.3	1988	6	.3	1988	#	1988	8	#	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	3.0	1989	23	3.0	1989	2	1989	24	#	1989
Ann	3.0	Dec 1989	23	3.0	Dec 1989	2	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
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
Ann	@	@	@	.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	.1	.0	.0	.0
Ann	.1	.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	3/17	3/12	3/08	3/04	2/28	2/24	2/19	2/12
32	3/15	3/05	2/26	2/20	2/15	2/09	2/03	1/27	1/18
28	2/27	2/18	2/11	2/05	1/30	1/24	1/17	1/07	0/00
24	2/02	1/19	1/06	12/17	0/00	0/00	0/00	0/00	0/00
20	1/16	12/30	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/28	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	11/04	11/10	11/15	11/19	11/23	11/27	12/01	12/05	12/12
32	11/16	11/24	11/30	12/04	12/09	12/13	12/18	12/24	12/31
28	11/30	12/08	12/14	12/20	12/25	12/30	1/05	1/13	0/00
24	12/26	1/01	1/07	1/14	0/00	0/00	0/00	0/00	0/00
20	1/09	1/28	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	290	281	274	268	263	258	252	245	236
32	331	319	311	303	296	289	282	273	261
28	>365	>365	345	335	327	320	313	305	295
24	>365	>365	>365	>365	>365	>365	>365	>365	337
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	400	261	131	34	1	0	0	0	0	32	164	323	1346
60	285	152	55	7	0	0	0	0	0	8	88	207	802
57	228	103	27	2	0	0	0	0	0	3	54	153	570
55	194	76	15	0	0	0	0	0	0	2	37	122	446
50	118	28	2	0	0	0	0	0	0	0	13	57	218
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	660	676	952	1091	1356	1459	1564	1558	1407	1175	903	725	13526
55	134	108	254	402	643	769	851	845	717	463	250	134	5570
57	106	79	203	343	581	709	789	783	657	403	206	103	4962
60	71	43	138	258	488	619	696	690	567	315	151	64	4100
65	16	12	59	135	334	469	541	535	417	184	77	25	2804
70	15	1	17	52	189	319	386	380	269	84	30	9	1751

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	421	477	704	850	1107	1213	1308	1302	1157	923	663	489	421	898	1602	2452	3559	4772	6080	7382	8539	9462	10125	10614
45	290	343	553	700	952	1063	1153	1147	1007	768	517	351	290	633	1186	1886	2838	3901	5054	6201	7208	7976	8493	8844
50	183	223	407	552	797	913	998	992	857	613	377	228	183	406	813	1365	2162	3075	4073	5065	5922	6535	6912	7140
55	106	131	270	404	642	763	843	837	707	459	247	136	106	237	507	911	1553	2316	3159	3996	4703	5162	5409	5545
60	49	62	149	263	487	613	688	682	557	311	148	68	49	111	260	523	1010	1623	2311	2993	3550	3861	4009	4077
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	246	278	434	561	785	864	926	920	821	616	417	294	246	524	958	1519	2304	3168	4094	5014	5835	6451	6868	7162

(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