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: SHREVEPORT AP, LA **COOP ID: 168440**

Climate Division: LA 1 **NWS Call Sign: SHV** **Elevation: 254 Feet** **Lat: 32˚27N** **Lon: 93˚49W**

Temperature (˚F)

Month	Mean (1) Daily Max	Mean (1) Daily Min	Mean (1) Mean	Extremes Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Degree Days (1) Base Temp 65 Heating	Cooling	Mean Number of Days (3) Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	56.2	36.5	46.4	85	1950	25	52.9	1990	-2	1930	18	35.4	1978	597	6	.0	.0	21.4	.9	12.7	.0
Feb	62.0	40.3	51.2	89+	1977	25	59.9	1976	2	1951	2	38.8	1978	408	7	.0	.0	23.4	.5	7.2	.0
Mar	69.7	47.2	58.5	92	1974	31	64.3	1974	15	1943	3	53.4	1996	247	31	.0	.1	29.8	@	2.4	.0
Apr	76.6	53.8	65.2	94	1987	20	70.4	1981	31+	1987	3	60.1	1983	89	87	.0	.2	30.0	.0	.2	.0
May	83.2	62.7	73.0	102	1998	31	77.3	1998	42	1960	12	68.3	1976	8	242	@	3.9	31.0	.0	.0	.0
Jun	89.8	69.9	79.9	104	1936	20	84.9	1998	52	1977	8	76.3	1976	0	436	.4	17.7	30.0	.0	.0	.0
Jul	93.3	73.4	83.4	107	1998	31	88.5	1998	58	1972	7	79.6	1976	0	554	2.6	25.7	31.0	.0	.0	.0
Aug	93.4	72.3	82.9	109+	1936	10	87.1	1995	53	1992	17	79.1	1992	0	539	2.9	25.5	31.0	.0	.0	.0
Sep	87.6	66.4	77.0	109	2000	3	82.5	1980	42+	1967	29	72.0	1974	6	353	.7	14.4	30.0	.0	.0	.0
Oct	78.3	55.0	66.7	99	1938	1	70.9	1984	28	1993	31	60.7	1976	78	119	.0	1.8	30.9	.0	.2	.0
Nov	66.8	45.3	56.1	88+	1955	12	62.0	1973	16	1976	29	49.8	1976	296	24	.0	.0	28.1	.0	3.0	.0
Dec	58.5	38.3	48.4	84	1955	24	60.3	1984	5	1989	23	37.8	1983	522	7	.0	.0	23.9	.5	10.8	.0
Ann	76.3	55.1	65.7	109+	Sep 2000	3	88.5	Jul 1998	-2	Jan 1930	18	35.4	Jan 1978	2251	2405	6.6	89.3	340.5	1.9	36.5	.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

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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	4.60	4.51	4.34	1999	28	12.96	1999	.27	1971
Feb	4.21	3.95	3.20	1993	15	8.57	1983	.42	1999
Mar	4.18	3.82	4.37	1944	28	8.72	1997	.75	1986
Apr	4.42	3.36	10.44	1991	12	21.84	1991	.43	1987
May	5.25	4.92	5.23	1981	9	10.76	2000	.15	1998
Jun	5.05	3.76	7.27	1993	21	17.11	1989	.13	1988
Jul	3.99	3.46	12.05	1933	24	9.46	1972	.27	1993
Aug	2.71	2.54	3.30	1991	30	9.23	1991	.00	2000
Sep	3.21	3.03	4.91	1968	15	7.79	1998	.08	1994
Oct	4.45	4.05	6.81	1949	4	12.05	1984	.31	1977
Nov	4.68	4.52	4.64	1969	17	10.81	1987	.52	1999
Dec	4.55	4.09	3.38	1939	22	10.00	1982	.59	1981
Ann	51.30	50.95	12.05	Jul 1933	24	21.84	Apr 1991	.00	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.7	6.6	2.9	1.5
Feb	8.1	5.2	2.8	1.5
Mar	9.7	6.4	2.8	1.3
Apr	8.2	5.2	2.6	1.2
May	9.6	6.8	3.2	1.6
Jun	8.6	6.2	2.9	1.4
Jul	8.1	5.6	2.1	1.3
Aug	6.5	4.0	1.6	1.1
Sep	6.9	4.3	2.1	1.1
Oct	7.4	5.3	2.9	1.6
Nov	8.9	6.2	2.9	1.6
Dec	9.7	6.1	3.3	1.5
Ann	101.4	67.9	32.1	16.7

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	.75	1.14	1.81	2.45	3.10	3.81	4.62	5.62	6.94	9.09	11.15
Feb	1.00	1.39	2.01	2.56	3.10	3.68	4.33	5.09	6.10	7.70	9.21
Mar	1.55	1.94	2.50	2.97	3.42	3.88	4.37	4.95	5.69	6.82	7.86
Apr	.61	.97	1.61	2.22	2.87	3.57	4.39	5.40	6.76	8.98	11.12
May	.75	1.18	1.94	2.67	3.43	4.26	5.23	6.41	8.01	10.60	13.11
Jun	.54	.92	1.62	2.32	3.08	3.93	4.92	6.16	7.85	10.64	13.37
Jul	.79	1.15	1.74	2.27	2.82	3.40	4.06	4.86	5.92	7.61	9.22
Aug	.25	.55	1.00	1.39	1.80	2.24	2.74	3.35	4.16	5.47	6.72
Sep	.44	.70	1.16	1.60	2.07	2.59	3.18	3.92	4.91	6.53	8.09
Oct	.88	1.29	1.94	2.54	3.14	3.79	4.53	5.41	6.58	8.46	10.24
Nov	1.30	1.74	2.41	3.00	3.58	4.18	4.85	5.64	6.66	8.27	9.77
Dec	1.16	1.58	2.25	2.83	3.41	4.02	4.69	5.50	6.55	8.21	9.76
Ann	34.00	37.26	41.48	44.72	47.61	50.43	53.36	56.62	60.59	66.40	71.46

\+ 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
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Complete documentation available from:
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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	.9	.0	#	0
Feb	.4	.0	#	0
Mar	.1	.0	#	0
Apr	.0	.0	0	0
May	.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	.1	.0	#	0
Dec	.3	.0	0	0
Ann	1.8	.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	5.6	1982	13	5.9	1978	6	1982	14	1	1982
Feb	4.4	1985	1	4.4	1985	3+	1985	4	#	1985
Mar	1.0	1993	12	1.0	1993	1	1993	12	#	1993
Apr	.3	1987	2	.3	1987	#	1995	22	0	0
May	.0	0	0	.0	0	0	0	0	#	2000
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	1.3	1980	26	1.3	1980	1	1980	27	#	1980
Dec	5.4	1983	16	5.4	1983	#+	1998	24	0	0
Ann	5.6	Jan 1982	13	5.9	Jan 1978	6	Jan 1982	14	1	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.5	.3	.1	.1	.0
Feb	.5	.1	@	.0	.0
Mar	.1	.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	.1	.1	@	@	.0
Ann	1.2	.5	.1	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.7	.2	.2	.0
Feb	.2	.1	.0	.0
Mar	@	.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
Dec	.0	.0	.0	.0
Ann	.9	.3	.2	.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	4/17	4/11	4/06	4/03	3/30	3/27	3/23	3/19	3/13
32	3/31	3/24	3/19	3/14	3/10	3/06	3/02	2/24	2/17
28	3/18	3/10	3/04	2/27	2/22	2/17	2/12	2/06	1/28
24	3/10	2/28	2/21	2/14	2/09	2/03	1/27	1/19	1/07
20	2/17	2/07	1/30	1/24	1/17	1/09	12/30	0/00	0/00
16	2/01	1/19	1/08	12/25	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	10/23	10/28	11/01	11/04	11/07	11/10	11/13	11/16	11/21
32	10/31	11/06	11/11	11/15	11/18	11/22	11/26	11/30	12/07
28	11/14	11/20	11/25	11/29	12/02	12/06	12/10	12/15	12/21
24	11/21	11/28	12/04	12/09	12/14	12/18	12/24	12/30	1/08
20	12/09	12/16	12/22	12/27	1/01	1/07	1/14	0/00	0/00
16	12/18	12/29	1/08	1/21	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	245	237	231	226	221	216	211	205	197
32	282	272	265	258	252	247	240	233	223
28	312	302	295	289	283	277	271	264	254
24	>365	334	322	314	306	299	291	283	271
20	>365	>365	>365	>365	357	338	327	317	305
16	>365	>365	>365	>365	>365	>365	>365	348	331

***** 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	597	408	247	89	8	0	0	0	6	78	296	522	2251
60	440	275	120	22	1	0	0	0	0	15	171	382	1426
57	360	212	74	8	0	0	0	0	0	5	119	306	1084
55	310	176	50	4	0	0	0	0	0	2	90	260	892
50	206	101	16	0	0	0	0	0	0	0	39	166	528
32	16	2	0	0	0	0	0	0	0	0	0	9	27

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	447	530	808	987	1260	1425	1577	1560	1338	1065	715	509	12221
55	39	67	167	308	547	735	864	847	648	360	128	52	4762
57	29	49	130	255	486	675	802	785	588	304	99	38	4240
60	17	28	83	183	393	585	709	692	499	227	63	23	3502
65	6	7	31	87	242	436	554	539	353	119	24	7	2405
70	1	1	9	28	121	286	399	382	221	47	5	1	1501

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	253	347	574	755	1024	1194	1337	1321	1104	824	487	293	253	600	1174	1929	2953	4147	5484	6805	7909	8733	9220	9513
45	155	236	422	605	869	1044	1182	1166	954	669	350	182	155	391	813	1418	2287	3331	4513	5679	6633	7302	7652	7834
50	84	145	289	456	714	894	1027	1011	804	516	226	102	84	229	518	974	1688	2582	3609	4620	5424	5940	6166	6268
55	44	76	174	316	559	744	872	856	654	368	133	54	44	120	294	610	1169	1913	2785	3641	4295	4663	4796	4850
60	17	33	88	191	404	594	717	701	505	234	67	27	17	50	138	329	733	1327	2044	2745	3250	3484	3551	3578
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	154	217	357	486	698	829	913	893	750	540	296	184	154	371	728	1214	1912	2741	3654	4547	5297	5837	6133	6317

(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