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: LAKE PROVIDENCE, LA **COOP ID: 165090**

Climate Division: LA 3 **NWS Call Sign:** **Elevation: 100 Feet** **Lat: 32˚48N** **Lon: 91˚10W**

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	52.3	34.2	43.3	85	1943	25	49.7	1990	-5	1962	12	33.6	1977	675	0	.0	.0	18.8	1.4	13.6	.0
Feb	57.9	37.8	47.9	85+	1951	27	55.3	1976	-2	1951	2	36.9	1978	486	5	.0	.0	20.9	.9	8.2	.0
Mar	66.4	45.2	55.8	93	1946	31	60.0	2000	16+	1943	3	50.4	1980	297	11	.0	.0	28.9	@	1.9	.0
Apr	74.4	52.7	63.6	95	1941	1	69.3+	1999	32+	1940	13	58.6	1983	108	64	.0	.3	29.9	.0	.1	.0
May	82.4	61.8	72.1	99+	1951	31	76.5	1987	40	1976	2	67.2	1976	16	236	.0	3.7	31.0	.0	.0	.0
Jun	89.1	69.2	79.2	108	1952	29	82.7	1998	51	1956	3	75.6	1974	0	425	.2	15.3	30.0	.0	.0	.0
Jul	92.2	72.4	82.3	109	1930	13	85.3	1980	57+	1947	23	79.4	1972	0	536	.9	23.1	31.0	.0	.0	.0
Aug	91.7	71.2	81.5	109	1951	18	86.2	2000	55+	1931	13	77.8	1992	0	510	.8	22.5	31.0	.0	.0	.0
Sep	86.7	65.2	76.0	110	1951	1	81.7	1998	35	1967	29	70.1	1974	4	332	.3	11.8	30.0	.0	.0	.0
Oct	77.2	53.5	65.4	98	1954	3	70.3	1971	29+	1954	30	59.1	1976	86	97	.0	1.3	30.9	.0	.1	.0
Nov	65.1	44.1	54.6	90	1950	1	60.8	1985	20+	1950	25	46.8	1976	326	14	.0	.0	27.6	@	2.8	.0
Dec	55.4	36.9	46.2	84	1951	7	54.8	1984	4+	1983	25	37.1	1983	586	2	.0	.0	21.6	.8	10.1	.0
Ann	74.2	53.7	64.0	110	Sep 1951	1	86.2	Aug 2000	-5	Jan 1962	12	33.6	Jan 1977	2584	2232	2.2	78.0	331.6	3.1	36.8	.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

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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	5.91	5.06	6.07	1949	3	12.92	1974	.71	1986
Feb	5.10	5.31	4.94	1961	21	9.54	1987	1.31	1977
Mar	6.30	5.80	6.59	1984	5	16.08	1980	1.26	1978
Apr	6.16	5.20	7.65	1991	29	23.03	1991	1.54	1981
May	5.88	5.09	5.55	1930	17	15.68	1978	.55	1977
Jun	4.60	4.48	3.74	1974	8	9.85	1974	1.10	1996
Jul	3.73	3.21	4.72	1970	10	7.66	1971	.04	1986
Aug	2.84	2.45	5.30	1992	27	11.57	1992	.00	2000
Sep	2.96	2.70	5.38	1982	12	7.06	1982	.36	1980
Oct	4.48	3.61	8.28	1982	7	18.42	1982	.16+	1978
Nov	5.11	5.03	8.74	1948	19	11.04	1986	1.70	1995
Dec	6.04	5.49	5.42	1982	4	17.96	1982	.53	1980
Ann	59.11	56.45	8.74	Nov 1948	19	23.03	Apr 1991	.00	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	7.7	4.0	1.7
Feb	8.3	6.3	3.3	1.7
Mar	9.8	7.2	4.1	1.9
Apr	8.0	6.0	3.6	2.2
May	9.9	7.7	3.4	1.8
Jun	8.8	6.4	2.9	1.4
Jul	8.3	5.8	2.5	.9
Aug	6.6	4.2	1.7	.9
Sep	6.4	4.3	1.8	.9
Oct	7.1	5.1	2.9	1.4
Nov	9.0	6.4	3.4	1.6
Dec	10.4	7.2	4.2	1.9
Ann	103.0	74.3	37.8	18.3

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	1.36	1.91	2.78	3.55	4.32	5.14	6.06	7.16	8.60	10.89	13.05
Feb	1.41	1.89	2.63	3.27	3.90	4.55	5.28	6.14	7.26	9.02	10.65
Mar	2.08	2.67	3.55	4.30	5.02	5.76	6.57	7.52	8.74	10.63	12.38
Apr	1.48	2.05	2.95	3.75	4.55	5.40	6.34	7.46	8.94	11.27	13.47
May	1.30	1.84	2.71	3.48	4.26	5.09	6.02	7.14	8.60	10.94	13.15
Jun	1.68	2.11	2.73	3.25	3.75	4.26	4.81	5.45	6.27	7.53	8.68
Jul	.63	.95	1.50	2.01	2.53	3.11	3.76	4.55	5.61	7.32	8.96
Aug	.24	.55	1.02	1.43	1.86	2.33	2.86	3.51	4.37	5.78	7.13
Sep	.73	1.00	1.44	1.82	2.20	2.60	3.05	3.58	4.28	5.39	6.43
Oct	.33	.62	1.20	1.81	2.50	3.29	4.24	5.44	7.11	9.92	12.70
Nov	1.67	2.15	2.87	3.47	4.06	4.66	5.33	6.10	7.10	8.65	10.07
Dec	1.46	2.02	2.90	3.69	4.47	5.29	6.21	7.31	8.75	11.03	13.17
Ann	42.00	45.31	49.55	52.77	55.63	58.40	61.25	64.41	68.24	73.79	78.60

\+ 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

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	1.2	.0	#	0
Feb	.3	.0	#	0
Mar	#	.0	#	0
Apr	#	.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	.2	.0	#	0
Ann	1.7	.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	4.5	1977	31	7.0	1977	5	1977	31	#+	2000
Feb	2.0	1985	2	2.5	1985	2	1985	2	#+	1988
Mar	#	1989	6	#+	1989	2	1993	12	#+	1993
Apr	#	1987	3	#	1987	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	#	1976	28	#	1976	0	0	0	0	0
Dec	2.8	1997	14	2.8	1997	#	1983	17	#	1983
Ann	4.5	Jan 1977	31	7.0	Jan 1977	5	Jan 1977	31	#+	Jan 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.5	.3	.2	.0	.0
Feb	.3	.2	.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	.1	.1	.0	.0	.0
Ann	.9	.6	.2	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.4	.2	@	.0
Feb	.1	.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	.5	.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	4/06	3/31	3/26	3/22	3/19	3/15	3/11	3/06	2/28
32	3/27	3/19	3/13	3/09	3/04	2/28	2/23	2/18	2/10
28	3/09	3/01	2/23	2/18	2/14	2/09	2/04	1/29	1/21
24	3/03	2/20	2/13	2/06	1/31	1/24	1/16	1/06	0/00
20	2/20	2/09	2/01	1/24	1/15	1/03	0/00	0/00	0/00
16	2/01	1/21	1/06	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	10/26	10/31	11/03	11/06	11/09	11/12	11/15	11/18	11/23
32	11/02	11/08	11/13	11/17	11/20	11/24	11/28	12/03	12/09
28	11/12	11/20	11/26	12/02	12/07	12/12	12/17	12/23	1/01
24	11/23	12/04	12/13	12/20	12/27	1/03	1/12	1/23	0/00
20	12/10	12/19	12/25	12/31	1/07	1/18	0/00	0/00	0/00
16	1/03	1/17	2/04	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	258	250	244	239	235	230	225	219	211
32	290	280	273	266	260	254	248	241	230
28	327	314	306	299	293	286	280	272	261
24	>365	>365	>365	338	326	316	308	298	286
20	>365	>365	>365	>365	>365	354	332	318	302
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	675	486	297	108	16	0	0	0	4	86	326	586	2584
60	532	357	173	41	3	0	0	0	0	32	206	442	1786
57	447	285	116	18	0	0	0	0	0	14	148	360	1388
55	393	242	85	10	0	0	0	0	0	8	115	308	1161
50	273	153	32	1	0	0	0	0	0	1	54	201	715
32	31	8	0	0	0	0	0	0	0	0	0	13	52

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	379	450	737	946	1243	1415	1559	1533	1318	1034	678	452	11744
55	28	40	109	266	530	725	846	820	628	329	103	35	4459
57	20	28	78	215	468	665	784	758	568	273	76	24	3957
60	12	15	42	147	378	575	691	665	478	198	43	13	3257
65	0	5	11	64	236	425	536	510	332	97	14	2	2232
70	0	0	1	19	121	277	381	355	199	36	2	0	1391

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	205	300	523	731	1018	1192	1326	1301	1097	807	466	267	205	505	1028	1759	2777	3969	5295	6596	7693	8500	8966	9233
45	117	195	378	581	863	1042	1171	1146	947	653	329	159	117	312	690	1271	2134	3176	4347	5493	6440	7093	7422	7581
50	60	116	251	435	708	892	1016	991	797	498	214	89	60	176	427	862	1570	2462	3478	4469	5266	5764	5978	6067
55	28	56	143	298	553	742	861	836	647	356	123	45	28	84	227	525	1078	1820	2681	3517	4164	4520	4643	4688
60	7	20	68	178	400	592	706	681	498	224	59	16	7	27	95	273	673	1265	1971	2652	3150	3374	3433	3449
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	117	179	305	460	693	836	923	896	750	523	275	148	117	296	601	1061	1754	2590	3513	4409	5159	5682	5957	6105

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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