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: ALEXANDRIA INTL AP, LA **COOP ID: 160098**

Climate Division: LA 5 **NWS Call Sign:** **Elevation: 87 Feet** **Lat: 31˚19N** **Lon: 92˚28W**

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	58.1	38.0	48.1	84	1957	29	54.0	1999	4	1948	24	39.2	1977	534	3	.0	.0	23.2	.4	10.3	.0
Feb	62.9	41.3	52.1	88	1932	28	58.3	1976	6	1951	3	42.2	1978	368	7	.0	.0	24.2	.3	5.8	.0
Mar	70.2	48.9	59.6	92	1946	30	64.9	1974	22	1943	4	54.4	1996	197	27	.0	@	29.8	.0	1.1	.0
Apr	76.9	55.5	66.2	94+	1987	19	71.4	1981	31	1971	7	61.5	1993	64	100	.0	.3	30.0	.0	@	.0
May	84.1	64.3	74.2	99	1998	31	77.8	1998	38	1954	6	69.3	1976	5	289	.0	4.5	31.0	.0	.0	.0
Jun	90.1	71.1	80.6	104+	1930	26	84.5	1998	51	1984	1	77.4	1976	0	468	.1	18.0	30.0	.0	.0	.0
Jul	92.8	73.8	83.3	106	1932	14	87.1	1998	57	1967	15	80.5	1972	0	568	1.1	25.3	31.0	.0	.0	.0
Aug	92.9	73.1	83.0	108	2000	31	87.3	1999	57+	1940	21	79.2	1992	0	558	1.5	25.4	31.0	.0	.0	.0
Sep	88.2	68.1	78.2	109	2000	1	82.6	1980	40	1967	29	74.1	1974	0	394	.3	14.9	30.0	.0	.0	.0
Oct	79.5	56.5	68.0	98	1951	6	72.4	1973	30+	1948	19	60.8	1976	49	142	.0	1.9	31.0	.0	.1	.0
Nov	68.9	47.7	58.3	89	1965	27	64.7	1985	21+	1951	19	51.6	1976	235	35	.0	.0	29.0	.0	1.8	.0
Dec	60.8	40.5	50.7	83	1995	4	60.3	1984	7	1989	23	41.6	1989	456	11	.0	.0	25.9	.3	7.7	.0
Ann	77.1	56.6	66.9	109	Sep 2000	1	87.3	Aug 1999	4	Jan 1948	24	39.2	Jan 1977	1908	2602	3.0	90.3	346.1	1.0	26.8	.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

Issue Date: February 2004

(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	6.16	5.56	4.75	1994	27	13.95	1990	1.35	2000
Feb	4.78	4.31	5.23	1966	10	13.18	1997	.46	2000
Mar	5.78	5.61	5.01	1977	4	13.20	1973	1.42	1978
Apr	4.94	4.69	8.55	1953	29	14.76	1991	.27	1987
May	5.35	4.86	5.46	1935	20	11.93	1983	.00	1998
Jun	4.88	4.40	7.32	1984	7	13.56	1989	1.53	1980
Jul	4.23	4.16	9.75	1933	25	10.50	1976	.45	1999
Aug	4.35	4.16	5.70	1998	7	10.44	1998	.13	1999
Sep	4.00	3.42	5.00	1979	21	11.88	1979	.45	1989
Oct	4.82	4.04	8.12	1972	23	16.00	1985	.22	1989
Nov	5.76	5.08	10.02	1987	16	17.51	1987	.91	1999
Dec	6.39	5.72	7.20	1982	26	20.80	1982	1.69	1984
Ann	61.44	59.34	10.02	Nov 1987	16	20.80	Dec 1982	.00	May 1998

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.7	7.7	4.1	2.0
Feb	8.5	6.2	2.9	1.6
Mar	9.0	6.6	3.6	2.0
Apr	7.1	5.0	2.6	1.6
May	8.7	6.4	3.6	1.8
Jun	8.8	6.5	3.2	1.4
Jul	9.2	6.3	3.1	1.2
Aug	8.8	6.4	2.6	1.1
Sep	7.9	5.1	2.4	1.1
Oct	6.3	4.5	2.6	1.4
Nov	8.3	6.4	3.8	2.2
Dec	9.8	7.4	4.2	2.3
Ann	103.1	74.5	38.7	19.7

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	1.40	1.97	2.87	3.68	4.49	5.35	6.32	7.47	8.99	11.40	13.68
Feb	.98	1.41	2.11	2.75	3.40	4.09	4.87	5.81	7.05	9.04	10.92
Mar	1.87	2.42	3.23	3.92	4.59	5.27	6.03	6.91	8.04	9.81	11.44
Apr	.52	.89	1.57	2.26	3.00	3.83	4.81	6.03	7.69	10.45	13.13
May	1.32	2.09	2.96	3.65	4.30	4.96	5.67	6.50	7.56	9.20	10.71
Jun	1.46	1.93	2.62	3.22	3.80	4.41	5.08	5.86	6.87	8.46	9.93
Jul	1.09	1.49	2.11	2.65	3.18	3.74	4.37	5.11	6.08	7.61	9.03
Aug	.61	.97	1.59	2.20	2.83	3.52	4.33	5.31	6.65	8.82	10.91
Sep	.78	1.14	1.73	2.27	2.82	3.40	4.07	4.87	5.93	7.64	9.26
Oct	.49	.84	1.50	2.17	2.90	3.72	4.68	5.88	7.53	10.26	12.93
Nov	1.48	2.03	2.86	3.60	4.33	5.10	5.95	6.96	8.29	10.37	12.32
Dec	1.95	2.56	3.46	4.24	5.00	5.78	6.64	7.66	8.97	11.01	12.90
Ann	43.65	47.09	51.51	54.86	57.83	60.71	63.69	66.97	70.96	76.74	81.74

\+ 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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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	.4	.0	#	0	2.0	1973	11	4.0	1973	2	1978	20	#	1985	.3	.3	.0	.0	.0	.1	.0	.0	.0
Feb	#	.0	0	0	#	1989	7	#+	1989	#+	1988	8	0	0	.0	.0	.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	#	1988	.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	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.4	.0	N/A	N/A	2.0	Jan 1973	11	4.0	Jan 1973	2	Jan 1978	20	#+	May 1988	.3	.3	.0	.0	.0	.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	4/08	3/31	3/26	3/21	3/16	3/12	3/07	3/01	2/22
32	3/23	3/15	3/09	3/04	2/27	2/23	2/18	2/12	2/04
28	3/09	2/27	2/19	2/12	2/06	1/31	1/24	1/16	1/03
24	2/19	2/10	2/03	1/28	1/22	1/15	1/06	0/00	0/00
20	1/28	1/16	1/05	12/20	0/00	0/00	0/00	0/00	0/00
16	1/22	1/05	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	10/27	11/02	11/06	11/10	11/13	11/17	11/20	11/25	11/30
32	11/02	11/10	11/15	11/19	11/24	11/28	12/02	12/08	12/15
28	11/26	12/02	12/07	12/10	12/14	12/18	12/21	12/26	1/03
24	12/05	12/13	12/19	12/25	12/30	1/06	1/14	0/00	0/00
20	12/26	1/02	1/09	1/19	0/00	0/00	0/00	0/00	0/00
16	1/07	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	272	261	254	247	241	235	229	222	211
32	301	290	282	275	268	262	255	247	236
28	>365	330	321	314	308	302	296	289	279
24	>365	>365	>365	>365	342	330	321	311	299
20	>365	>365	>365	>365	>365	>365	>365	>365	346
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	534	368	197	64	5	0	0	0	0	49	235	456	1908
60	393	244	99	18	0	0	0	0	0	14	138	320	1226
57	316	182	57	7	0	0	0	0	0	6	93	249	910
55	270	146	37	3	0	0	0	0	0	3	69	208	736
50	175	76	9	0	0	0	0	0	0	0	27	124	411
32	11	0	0	0	0	0	0	0	0	0	0	3	14

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	508	563	853	1025	1308	1458	1591	1581	1383	1116	789	581	12756
55	54	65	177	338	595	768	878	868	693	406	168	73	5083
57	39	44	135	282	533	708	816	806	633	347	133	52	4528
60	23	23	84	203	440	618	723	713	543	262	87	30	3749
65	3	7	27	100	289	468	568	558	394	142	35	11	2602
70	0	0	6	34	156	318	413	403	248	57	11	1	1647

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	291	378	615	793	1065	1223	1342	1332	1138	866	547	353	291	669	1284	2077	3142	4365	5707	7039	8177	9043	9590	9943
45	185	260	465	643	910	1073	1187	1177	988	711	409	235	185	445	910	1553	2463	3536	4723	5900	6888	7599	8008	8243
50	106	163	328	495	755	923	1032	1022	838	556	279	137	106	269	597	1092	1847	2770	3802	4824	5662	6218	6497	6634
55	54	87	208	351	600	773	877	867	688	406	172	73	54	141	349	700	1300	2073	2950	3817	4505	4911	5083	5156
60	20	38	104	218	445	623	722	712	538	267	91	36	20	58	162	380	825	1448	2170	2882	3420	3687	3778	3814
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	176	226	379	514	735	848	926	910	786	574	341	210	176	402	781	1295	2030	2878	3804	4714	5500	6074	6415	6625

(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

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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