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: ASHLAND, LA **COOP ID: 160349**

Climate Division: LA 4 **NWS Call Sign:** **Elevation: 240 Feet** **Lat: 32˚10N** **Lon: 93˚08W**

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	55.7	33.0	44.4	82+	1970	29	51.0	1999	-5	1962	12	35.2	1977	640	0	.0	.0	20.9	.9	16.3	.0
Feb	61.4	36.4	48.9	87	1977	26	55.5	1999	10	1996	4	38.6	1978	452	2	.0	.0	22.6	.5	11.4	.0
Mar	69.0	43.6	56.3	89+	1955	12	61.9	1974	11	1980	3	52.2	1971	280	11	.0	.0	29.6	.0	4.8	.0
Apr	76.0	50.1	63.1	92+	1987	19	68.9	1981	24	1971	7	57.3	1983	115	57	.0	.3	29.9	.0	1.0	.0
May	82.4	59.3	70.9	97+	1998	30	76.4	1996	38+	1960	13	66.0	1976	23	205	.0	3.1	31.0	.0	.0	.0
Jun	89.1	66.6	77.9	101+	1963	14	83.6	1998	45	1972	1	74.3	1976	0	385	.4	15.6	30.0	.0	.0	.0
Jul	92.8	69.6	81.2	107	1954	16	86.7	1998	53	1968	5	78.4	1976	0	501	2.1	25.4	31.0	.0	.0	.0
Aug	93.2	68.3	80.8	108	1998	2	84.7	1999	48	1986	30	76.3	1992	0	487	2.9	24.6	31.0	.0	.0	.0
Sep	87.8	62.8	75.3	110	2000	1	81.7	1980	34+	1967	29	70.3	1974	6	313	.8	13.4	30.0	.0	.0	.0
Oct	78.3	50.7	64.5	97	1954	6	68.9	1971	24	1993	31	57.1	1976	95	79	.0	1.6	30.9	.0	.8	.0
Nov	67.4	41.9	54.7	90+	1955	12	61.1	1973	14	1976	29	47.9	1976	323	12	.0	.0	28.4	@	6.6	.0
Dec	58.4	35.0	46.7	84	1955	25	57.6	1984	2	1989	23	37.5	1983	572	5	.0	.0	24.0	.5	14.5	.0
Ann	76.0	51.4	63.7	110	Sep 2000	1	86.7	Jul 1998	-5	Jan 1962	12	35.2	Jan 1977	2506	2057	6.2	84.0	339.3	1.9	55.4	.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	5.48	4.48	4.14	1999	2	13.60	1999	.44	1986
Feb	5.03	4.68	6.75	1966	10	11.85	1983	.56	1996
Mar	5.22	4.98	4.40	1955	21	10.65	1980	.98	1996
Apr	4.50	3.58	5.35	1953	29	16.93	1991	.66	1971
May	5.47	5.45	10.88	1989	18	16.92	1989	.51	1998
Jun	4.45	4.17	5.56	1989	29	17.57	1989	.57	1988
Jul	4.15	3.69	4.58	1950	6	9.46	1971	.08	1990
Aug	3.02	2.70	3.68	1996	1	7.18	1996	.46	1999
Sep	3.41	2.82	5.80	1989	10	9.61	1974	.47	1995
Oct	3.98	3.48	5.20	1994	17	9.22	1994	.87	2000
Nov	4.61	3.83	4.06	1987	16	11.89	2000	1.17	1989
Dec	5.44	5.61	5.10	1987	27	14.14	1982	.72	1980
Ann	54.76	53.95	10.88	May 1989	18	17.57	Jun 1989	.08	Jul 1990

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.6	7.6	3.8	1.8
Feb	7.3	6.0	3.3	1.5
Mar	9.0	6.9	3.6	1.9
Apr	6.9	5.0	2.6	1.5
May	8.1	6.4	3.2	1.6
Jun	7.8	6.0	3.0	1.5
Jul	7.8	5.6	2.7	1.4
Aug	6.8	5.3	2.2	.7
Sep	6.7	4.7	2.0	1.0
Oct	6.4	5.1	2.4	1.4
Nov	7.4	6.1	3.2	1.6
Dec	9.1	6.8	3.5	2.0
Ann	92.9	71.5	35.5	17.9

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	1.05	1.54	2.35	3.09	3.84	4.65	5.56	6.67	8.14	10.49	12.73
Feb	1.08	1.54	2.28	2.95	3.62	4.34	5.15	6.12	7.39	9.43	11.36
Mar	1.89	2.38	3.09	3.68	4.25	4.83	5.46	6.19	7.13	8.57	9.90
Apr	.64	1.01	1.66	2.28	2.93	3.65	4.48	5.49	6.86	9.10	11.25
May	1.04	1.53	2.33	3.07	3.82	4.63	5.55	6.66	8.14	10.51	12.76
Jun	.57	.93	1.56	2.18	2.83	3.56	4.40	5.44	6.84	9.15	11.38
Jul	.41	.71	1.28	1.86	2.48	3.19	4.02	5.06	6.49	8.86	11.18
Aug	.81	1.10	1.53	1.92	2.29	2.69	3.13	3.65	4.32	5.38	6.38
Sep	.60	.90	1.40	1.86	2.34	2.86	3.44	4.15	5.10	6.63	8.09
Oct	.78	1.14	1.72	2.26	2.80	3.39	4.05	4.85	5.91	7.60	9.22
Nov	1.14	1.58	2.25	2.84	3.43	4.06	4.75	5.58	6.66	8.37	9.97
Dec	1.61	2.12	2.90	3.57	4.22	4.90	5.65	6.53	7.67	9.45	11.11
Ann	38.22	41.40	45.48	48.59	51.36	54.04	56.82	59.89	63.62	69.04	73.73

\+ 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

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	.7	.0	#	0
Feb	.2	.0	#	0
Mar	.0	.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	.1	.0	#	0
Ann	1.0	.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	6.0	1977	31	6.0	1977	6	1982	31	1	1982
Feb	3.0	1985	1	4.0	1985	1	1985	2	#+	1996
Mar	1.0	1978	4	1.0	1978	#	1993	13	#	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	29	#	1976	0	0	0	0	0
Dec	.8	1997	14	.8	1997	#+	1996	16	#+	1996
Ann	6.0	Jan 1977	31	6.0	Jan 1977	6	Jan 1982	31	1	Jan 1982

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.3	.3	.1	@	.0
Feb	.1	.1	@	.0	.0
Mar	@	@	.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	.2	.0	.0	.0	.0
Ann	.6	.4	.1	@	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.3	@	@	.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	.4	@	@	.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	4/20	4/17	4/14	4/12	4/10	4/08	4/06	4/03	3/30
32	4/14	4/08	4/04	4/01	3/28	3/25	3/21	3/17	3/11
28	4/05	3/29	3/23	3/19	3/14	3/10	3/05	2/28	2/20
24	3/20	3/10	3/03	2/25	2/19	2/14	2/08	2/01	1/22
20	3/10	2/27	2/18	2/11	2/04	1/28	1/20	1/10	12/22
16	2/20	2/07	1/29	1/21	1/12	1/01	12/12	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	10/06	10/12	10/16	10/20	10/23	10/26	10/30	11/03	11/08
32	10/17	10/24	10/29	11/02	11/06	11/10	11/14	11/19	11/26
28	10/27	11/03	11/08	11/12	11/17	11/21	11/25	11/30	12/08
24	11/04	11/15	11/23	11/30	12/06	12/13	12/19	12/27	1/07
20	11/21	12/01	12/08	12/14	12/20	12/26	1/02	1/11	1/27
16	12/10	12/17	12/23	12/28	1/03	1/11	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	215	208	204	199	195	191	187	182	175
32	249	240	233	228	222	217	211	204	195
28	275	265	258	252	247	241	235	228	218
24	323	309	300	293	286	279	272	264	252
20	>365	>365	337	324	315	306	298	289	276
16	>365	>365	>365	>365	>365	351	331	318	304

***** 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	640	452	280	115	23	0	0	0	6	95	323	572	2506
60	498	323	158	44	5	0	0	0	0	35	201	429	1693
57	415	251	103	20	1	0	0	0	0	15	144	349	1298
55	362	208	73	11	0	0	0	0	0	8	111	299	1072
50	247	122	24	1	0	0	0	0	0	1	51	196	642
32	24	3	0	0	0	0	0	0	0	0	0	14	41

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	407	477	754	932	1205	1375	1524	1510	1298	1007	679	469	11637
55	32	38	114	252	492	685	811	797	608	302	100	42	4273
57	23	25	81	201	431	625	749	735	548	247	73	29	3767
60	13	13	44	136	342	535	656	642	458	174	40	17	3070
65	0	2	11	57	205	385	501	487	313	79	12	5	2057
70	0	0	1	15	100	238	346	334	185	26	1	0	1246

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	212	304	516	700	964	1141	1284	1268	1061	761	450	258	212	516	1032	1732	2696	3837	5121	6389	7450	8211	8661	8919
45	126	199	375	552	809	991	1129	1113	911	607	316	160	126	325	700	1252	2061	3052	4181	5294	6205	6812	7128	7288
50	66	117	245	406	654	841	974	958	761	459	203	91	66	183	428	834	1488	2329	3303	4261	5022	5481	5684	5775
55	33	58	143	275	500	691	819	803	611	315	120	44	33	91	234	509	1009	1700	2519	3322	3933	4248	4368	4412
60	11	24	70	158	348	541	664	648	461	192	56	19	11	35	105	263	611	1152	1816	2464	2925	3117	3173	3192
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	140	204	334	461	650	784	866	845	713	505	291	171	140	344	678	1139	1789	2573	3439	4284	4997	5502	5793	5964

(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