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: WINNFIELD 2 W, LA **COOP ID: 169803**

Climate Division: LA 2 **NWS Call Sign:** **Elevation: 160 Feet** **Lat: 31˚56N** **Lon: 92˚40W**

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	56.2	33.7	45.0	84	1950	25	50.6	1989	1	1962	12	36.4	1978	621	0	.0	.0	22.6	.4	14.4	.0
Feb	62.0	36.7	49.4	86+	1948	29	55.8	1976	0	1951	2	40.1	1978	438	0	.0	.0	24.3	.4	9.4	.0
Mar	70.1	44.6	57.4	91	1955	12	62.4	1974	16	1980	3	52.2	1971	250	13	.0	@	30.2	.0	3.5	.0
Apr	76.5	51.2	63.9	93+	1987	18	69.3	1981	28+	1971	7	58.8	1997	95	61	.0	.4	30.0	.0	.6	.0
May	83.4	60.2	71.8	99+	1951	30	76.0	1996	36	1966	31	67.6	1976	12	223	.0	4.3	31.0	.0	.0	.0
Jun	89.4	67.3	78.4	102+	1953	19	83.1	1998	48+	1966	1	75.3	1989	0	401	.2	17.7	30.0	.0	.0	.0
Jul	92.4	70.6	81.5	105+	1948	31	86.3	1998	51	1967	15	78.9	1972	0	512	1.3	25.7	31.0	.0	.0	.0
Aug	92.8	69.2	81.0	109+	1948	14	84.5	2000	50	1986	30	76.6	1992	0	496	2.0	24.7	31.0	.0	.0	.0
Sep	88.0	63.8	75.9	111	2000	1	81.5	1980	35	1967	29	71.4	1974	3	329	.4	14.2	30.0	.0	.0	.0
Oct	79.1	51.8	65.5	102	1954	6	70.1	1984	26+	1952	29	58.6	1976	77	92	.0	1.6	31.0	.0	.5	.0
Nov	67.4	42.0	54.7	89+	1955	12	61.6	1985	15	1976	29	47.1	1976	324	15	.0	.0	28.7	.0	5.8	.0
Dec	58.9	36.1	47.5	83+	1982	2	57.5	1984	5+	1989	23	38.8	2000	546	3	.0	.0	25.1	.3	12.5	.0
Ann	76.4	52.3	64.3	111	Sep 2000	1	86.3	Jul 1998	0	Feb 1951	2	36.4	Jan 1978	2366	2145	3.9	88.6	344.9	1.1	46.7	.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: 1936-2001

(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	5.93	4.39	5.74	1999	29	16.62	1999	.97	1971
Feb	4.44	3.24	8.01	1966	10	11.00	1987	1.00	1999
Mar	5.71	5.45	7.03	1949	25	10.59	1975	1.88	1986
Apr	5.53	4.03	11.20	1974	12	22.44	1991	.31	1987
May	5.61	4.76	8.10	1968	10	17.21	1983	.48	1998
Jun	5.41	3.79	12.90	1989	29	30.22	1989	.63	1988
Jul	4.09	3.42	10.00	1958	22	11.70	1975	.10	1986
Aug	3.67	3.11	5.30	1958	22	10.95+	1991	.29+	2000
Sep	3.57	2.78	5.14	1958	21	9.10	1998	.33	1993
Oct	4.21	3.38	6.17	1991	30	9.70	1985	.52	2000
Nov	4.99	4.02	9.36	1987	16	17.79	1987	1.43	1995
Dec	6.21	5.71	7.73	1982	26	23.08	1982	.78	1980
Ann	59.37	58.07	12.90	Jun 1989	29	30.22	Jun 1989	.10	Jul 1986

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.1	7.8	3.5	1.9
Feb	8.1	6.1	3.2	1.3
Mar	9.2	7.0	3.6	2.0
Apr	7.3	5.1	2.9	1.7
May	8.9	6.6	3.3	1.9
Jun	8.5	6.2	3.0	1.4
Jul	8.6	6.3	2.7	1.2
Aug	7.6	5.2	2.3	1.1
Sep	6.8	4.7	2.3	1.3
Oct	6.4	4.5	2.4	1.5
Nov	7.9	6.3	3.3	1.5
Dec	10.1	7.5	3.8	1.9
Ann	99.5	73.3	36.3	18.7

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	1.09	1.62	2.49	3.29	4.11	5.00	6.01	7.22	8.84	11.45	13.93
Feb	.97	1.38	2.03	2.62	3.21	3.84	4.55	5.40	6.51	8.29	9.97
Mar	2.19	2.72	3.48	4.11	4.71	5.32	5.98	6.74	7.72	9.21	10.57
Apr	.48	.86	1.60	2.36	3.21	4.16	5.30	6.73	8.70	11.99	15.22
May	1.11	1.61	2.44	3.19	3.96	4.78	5.71	6.83	8.31	10.68	12.94
Jun	.78	1.23	2.01	2.75	3.54	4.40	5.39	6.60	8.24	10.91	13.48
Jul	.60	.94	1.53	2.10	2.69	3.34	4.08	5.00	6.23	8.23	10.15
Aug	.45	.73	1.25	1.76	2.31	2.91	3.62	4.49	5.67	7.61	9.49
Sep	.56	.87	1.39	1.88	2.39	2.94	3.58	4.35	5.39	7.08	8.70
Oct	.68	1.05	1.66	2.24	2.84	3.49	4.23	5.14	6.36	8.33	10.22
Nov	1.23	1.70	2.43	3.07	3.71	4.39	5.14	6.03	7.21	9.06	10.80
Dec	1.55	2.14	3.04	3.84	4.64	5.47	6.41	7.51	8.96	11.25	13.40
Ann	40.73	44.29	48.87	52.37	55.49	58.52	61.65	65.13	69.36	75.51	80.86

\+ 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: 1936-2001
(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	.8	.0	#	0
Feb	.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	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	4.5	1982	14	5.1	1978	3	1982	14	#+	2000
Feb	2.0	1985	1	3.0	1985	2	1985	3	#+	1996
Mar	.1	1978	4	.1	1978	#+	1993	12	#+	1993
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	.3	1976	29	.3	1976	0	0	0	0	0
Dec	2.0	1983	17	2.0	1983	1	1997	14	#+	2000
Ann	4.5	Jan 1982	14	5.1	Jan 1978	3	Jan 1982	14	#+	Dec 2000

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.7	.5	.1	.0	.0
Feb	.1	.1	.0	.0	.0
Mar	@	.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
Dec	.1	.1	.0	.0	.0
Ann	.9	.7	.1	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.7	.1	.0	.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
Ann	.8	.1	.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	4/17	4/12	4/09	4/06	4/04	4/01	3/29	3/26	3/22
32	4/09	4/02	3/29	3/25	3/21	3/17	3/13	3/08	3/02
28	3/24	3/17	3/11	3/06	3/02	2/25	2/20	2/15	2/07
24	3/08	2/27	2/22	2/17	2/12	2/07	2/02	1/27	1/19
20	2/27	2/16	2/07	1/30	1/23	1/15	1/05	12/17	0/00
16	2/10	1/28	1/17	1/07	12/22	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	10/06	10/12	10/17	10/20	10/24	10/27	10/31	11/04	11/10
32	10/21	10/27	11/01	11/05	11/09	11/12	11/16	11/21	11/28
28	10/28	11/05	11/10	11/15	11/19	11/23	11/28	12/03	12/10
24	11/10	11/20	11/28	12/04	12/10	12/16	12/23	12/30	1/10
20	11/27	12/07	12/15	12/22	12/29	1/05	1/15	2/01	0/00
16	12/14	12/22	12/29	1/05	1/17	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	224	216	211	207	202	198	194	188	181
32	262	252	244	238	232	226	220	212	202
28	294	283	275	268	261	255	248	240	229
24	334	320	312	304	298	291	284	276	265
20	>365	>365	>365	>365	339	323	313	304	294
16	>365	>365	>365	>365	>365	>365	345	332	320

***** 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	621	438	250	95	12	0	0	0	3	77	324	546	2366
60	479	308	133	31	2	0	0	0	0	26	205	403	1587
57	396	236	82	12	0	0	0	0	0	11	148	322	1207
55	344	193	55	6	0	0	0	0	0	6	116	273	993
50	231	108	16	0	0	0	0	0	0	1	54	172	582
32	19	2	0	0	0	0	0	0	0	0	0	8	29

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	421	488	786	956	1234	1391	1535	1519	1316	1038	681	488	11853
55	32	36	129	272	521	701	822	806	626	330	106	40	4421
57	23	23	93	219	459	641	760	744	566	274	79	27	3908
60	13	11	51	147	367	551	667	651	476	196	46	15	3191
65	0	0	13	61	223	401	512	496	329	92	15	3	2145
70	0	0	1	16	108	252	357	341	194	30	3	0	1302

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	256	351	579	752	1007	1164	1292	1278	1075	793	475	303	256	607	1186	1938	2945	4109	5401	6679	7754	8547	9022	9325
45	161	236	433	602	852	1014	1137	1123	925	639	337	193	161	397	830	1432	2284	3298	4435	5558	6483	7122	7459	7652
50	88	143	294	455	697	864	982	968	775	485	217	109	88	231	525	980	1677	2541	3523	4491	5266	5751	5968	6077
55	45	77	178	312	542	714	827	813	625	337	129	54	45	122	300	612	1154	1868	2695	3508	4133	4470	4599	4653
60	16	32	90	186	388	564	672	658	476	210	61	28	16	48	138	324	712	1276	1948	2606	3082	3292	3353	3381
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	168	233	374	496	684	799	875	858	724	527	307	193	168	401	775	1271	1955	2754	3629	4487	5211	5738	6045	6238

(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