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: DONALDSONVILLE 4 SW, LA **COOP ID: 162534**

Climate Division: LA 9 **NWS Call Sign:** **Elevation: 30 Feet** **Lat: 30˚04N** **Lon: 91˚02W**

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	61.4	41.3	51.4	87	1952	1	60.9	1974	10	1982	11	41.4	1977	449	11	.0	.0	25.9	.1	6.8	.0
Feb	64.7	44.1	54.4	87+	1957	4	59.8	1976	15	1996	5	45.4	1978	306	10	.0	.0	25.7	.1	3.2	.0
Mar	71.4	50.7	61.1	94	1946	30	65.9	1997	24	1996	9	55.5	1996	165	42	.0	.0	30.4	.0	.9	.0
Apr	77.6	57.1	67.4	96	1958	24	72.3	1981	32	1940	13	62.8	1993	45	116	.0	.4	30.0	.0	.0	.0
May	84.3	65.2	74.8	97+	1949	6	77.7	1998	42	1952	12	70.8	1976	2	304	.0	3.8	31.0	.0	.0	.0
Jun	89.1	71.4	80.3	102+	1930	27	83.3	1998	54	1955	11	77.7	1976	0	457	.0	16.9	30.0	.0	.0	.0
Jul	90.9	73.3	82.1	101+	1943	24	85.0	1998	59	1967	15	79.1	1974	0	530	.0	23.5	31.0	.0	.0	.0
Aug	90.8	72.9	81.9	104	2000	31	84.9	1999	60+	1951	1	78.8	1992	0	521	.1	23.3	31.0	.0	.0	.0
Sep	87.0	68.9	78.0	100+	1932	5	82.2	1980	45	1967	30	74.3	1975	0	389	@	12.4	30.0	.0	.0	.0
Oct	79.5	58.0	68.8	98	1954	3	73.2	1973	26	1952	30	61.9	1976	43	159	.0	1.5	31.0	.0	.0	.0
Nov	71.0	50.0	60.5	92	1934	1	66.8	1973	21	1950	25	51.2	1976	199	65	.0	.0	29.6	.0	.5	.0
Dec	63.9	43.3	53.6	86	1933	3	63.4	1971	9	1989	23	43.8	1989	374	21	.0	.0	28.2	.1	4.8	.0
Ann	77.6	58.0	67.9	104	Aug 2000	31	85.0	Jul 1998	9	Dec 1989	23	41.4	Jan 1977	1583	2625	.1	81.8	353.8	.3	16.2	.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

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	5.73	4.82	3.95	1998	5	18.86	1998	1.04	1971
Feb	4.65	3.73	5.39	1961	22	14.93	1988	.26	1989
Mar	5.26	3.92	4.10	1988	30	14.12	1988	1.32	1982
Apr	5.18	4.25	6.50	1980	13	15.27	1991	.28	1976
May	4.44	3.73	8.00	1952	23	19.15	1991	.00	1998
Jun	5.57	4.93	5.48	1987	14	13.10	1987	.31	1972
Jul	6.45	6.17	5.31	1954	29	11.10	1979	1.60	2000
Aug	5.68	5.28	4.33	1940	7	15.65	1977	1.69	1994
Sep	5.49	4.34	7.98	1998	12	15.75	1998	1.51	1997
Oct	3.86	2.80	7.60	1996	26	13.82	1985	.00	1978
Nov	4.59	4.23	12.10	1961	14	14.01	2000	.41	1985
Dec	4.87	4.50	5.44	1962	29	13.62	1971	1.15	1991
Ann	61.77	60.44	12.10	Nov 1961	14	19.15	May 1991	.00+	May 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.0	7.3	3.6	1.9
Feb	7.6	5.7	3.0	1.7
Mar	7.9	6.0	3.2	1.5
Apr	6.3	4.9	2.9	1.7
May	7.3	5.6	2.9	1.5
Jun	10.4	8.5	3.7	1.8
Jul	12.6	9.9	4.1	2.4
Aug	11.6	8.8	3.6	2.0
Sep	9.3	7.4	3.2	1.6
Oct	5.4	4.1	2.0	1.4
Nov	7.6	5.7	3.0	1.6
Dec	8.0	5.8	3.1	1.8
Ann	104.0	79.7	38.3	20.9

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	1.35	1.89	2.72	3.47	4.22	5.01	5.89	6.94	8.33	10.52	12.58
Feb	.51	.87	1.51	2.16	2.85	3.63	4.54	5.67	7.22	9.76	12.25
Mar	1.16	1.64	2.41	3.11	3.81	4.55	5.39	6.39	7.71	9.81	11.79
Apr	.43	.78	1.46	2.18	2.97	3.87	4.95	6.31	8.18	11.32	14.41
May	.36	.85	1.57	2.22	2.90	3.63	4.47	5.49	6.86	9.09	11.22
Jun	.91	1.39	2.20	2.96	3.75	4.61	5.60	6.80	8.41	11.01	13.51
Jul	2.97	3.54	4.32	4.95	5.54	6.13	6.76	7.48	8.39	9.76	11.00
Aug	1.76	2.30	3.10	3.79	4.46	5.15	5.91	6.80	7.95	9.75	11.41
Sep	1.35	1.87	2.67	3.38	4.08	4.83	5.66	6.65	7.94	9.99	11.91
Oct	.41	.88	1.52	2.08	2.64	3.25	3.94	4.76	5.86	7.62	9.30
Nov	.76	1.16	1.83	2.46	3.11	3.81	4.62	5.60	6.91	9.04	11.07
Dec	1.50	1.96	2.65	3.24	3.82	4.41	5.07	5.84	6.83	8.39	9.82
Ann	44.42	47.79	52.11	55.38	58.28	61.08	63.97	67.17	71.04	76.64	81.48

\+ 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	#	.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	.0	.0	#	0
Ann	.1	.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	#	1982	14	#	1982	#	1982	14	#	1982
Feb	1.5	1988	6	1.6	1988	1	1988	6	#	1988
Mar	#	1993	13	#	1993	0	0	0	0	0
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	.0	0	0	.0	0	0	0	0	0	0
Dec	.3	1989	23	.3	1989	#	1989	24	#	1989
Ann	1.5	Feb 1988	6	1.6	Feb 1988	1	Feb 1988	6	#+	Dec 1989

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	.0	.0	.0	.0	.0
Feb	.1	@	.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	@	.0	.0	.0	.0
Ann	.1	@	.0	.0	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	@	.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	@	.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	3/24	3/17	3/12	3/08	3/04	2/28	2/23	2/18	2/11
32	3/18	3/09	3/03	2/25	2/20	2/15	2/10	2/03	1/26
28	3/01	2/18	2/09	2/02	1/27	1/20	1/12	1/02	12/15
24	2/14	1/31	1/18	1/04	0/00	0/00	0/00	0/00	0/00
20	1/18	1/05	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/07	0/00	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	11/04	11/10	11/15	11/18	11/22	11/25	11/29	12/03	12/09
32	11/20	11/26	12/01	12/04	12/08	12/12	12/15	12/20	12/26
28	11/30	12/08	12/14	12/20	12/25	12/30	1/04	1/12	1/25
24	12/17	12/29	1/07	1/18	2/04	0/00	0/00	0/00	0/00
20	1/06	1/20	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/15	0/00	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	287	278	272	267	262	257	252	246	238
32	320	309	302	296	290	284	278	270	260
28	>365	>365	351	335	326	319	312	305	295
24	>365	>365	>365	>365	>365	>365	>365	342	313
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
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	449	306	165	45	2	0	0	0	0	43	199	374	1583
60	323	190	78	10	0	0	0	0	0	12	116	251	980
57	259	136	42	3	0	0	0	0	0	5	77	192	714
55	223	106	26	1	0	0	0	0	0	3	56	158	573
50	142	46	6	0	0	0	0	0	0	0	22	85	301
32	10	0	0	0	0	0	0	0	0	0	0	1	11

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	609	628	900	1060	1325	1447	1553	1544	1379	1139	855	671	13110
55	109	90	213	371	612	757	840	831	689	429	221	114	5276
57	84	64	167	314	550	697	778	769	629	369	182	87	4690
60	55	34	110	231	457	607	685	676	539	283	131	53	3861
65	11	10	42	116	304	457	530	521	389	159	65	21	2625
70	11	0	11	41	162	307	375	366	243	68	25	8	1617

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	380	441	672	833	1087	1224	1323	1310	1154	908	630	448	380	821	1493	2326	3413	4637	5960	7270	8424	9332	9962	10410
45	261	311	520	683	932	1074	1168	1155	1004	753	480	314	261	572	1092	1775	2707	3781	4949	6104	7108	7861	8341	8655
50	159	197	375	534	777	924	1013	1000	854	599	344	199	159	356	731	1265	2042	2966	3979	4979	5833	6432	6776	6975
55	86	113	241	385	622	774	858	845	704	444	221	116	86	199	440	825	1447	2221	3079	3924	4628	5072	5293	5409
60	40	49	132	247	467	624	703	690	554	302	128	61	40	89	221	468	935	1559	2262	2952	3506	3808	3936	3997
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	228	261	416	543	760	866	928	921	808	605	391	269	228	489	905	1448	2208	3074	4002	4923	5731	6336	6727	6996

(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