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: COVINGTON 4 NNW, LA **COOP ID: 162151**

Climate Division: LA 6 **NWS Call Sign:** **Elevation: 40 Feet** **Lat: 30˚32N** **Lon: 90˚07W**

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	62.1	40.2	51.2	84	1950	26	61.0	1974	7	1985	21	43.0	1977	447	3	.0	.0	27.2	.0	9.5	.0
Feb	66.1	42.6	54.4	86	1951	13	61.4	1990	10	1996	5	45.1	1978	305	7	.0	.0	26.5	.1	6.3	.0
Mar	72.9	49.0	61.0	91	1951	8	66.3	1997	17	1980	3	56.3	1996	167	40	.0	.0	30.6	.0	2.5	.0
Apr	78.7	54.5	66.6	93+	1948	28	71.2	1981	28+	1987	4	61.9	1993	52	99	.0	.3	30.0	.0	.3	.0
May	85.3	62.4	73.9	101	1951	31	78.2	2000	40+	1960	13	70.7	1976	3	276	.0	3.9	31.0	.0	.0	.0
Jun	90.2	68.4	79.3	103	1954	30	82.8	1998	46	1984	1	76.9	1995	0	429	.0	17.7	30.0	.0	.0	.0
Jul	91.9	71.1	81.5	104+	2000	16	83.9	2000	56+	1967	15	78.9	1994	0	512	.6	24.3	31.0	.0	.0	.0
Aug	91.7	70.9	81.3	107	2000	30	84.1	2000	55	1956	23	78.1	1992	0	504	.5	23.8	31.0	.0	.0	.0
Sep	87.8	66.9	77.4	105	2000	2	80.7	1980	38	1967	29	74.3	1975	0	370	.2	11.9	30.0	.0	.0	.0
Oct	80.2	55.7	68.0	96	1963	4	73.4	1984	28	1957	28	62.0	1976	54	146	.0	1.0	31.0	.0	.1	.0
Nov	70.7	47.9	59.3	89	1965	13	66.4	1985	21+	1950	25	51.5	1976	215	44	.0	.0	29.5	.0	3.0	.0
Dec	64.3	42.0	53.2	85+	1949	11	61.5	1971	7	1962	13	44.1	1989	383	17	.0	.0	28.5	.1	9.0	.0
Ann	78.5	56.0	67.3	107	Aug 2000	30	84.1	Aug 2000	7+	Jan 1985	21	43.0	Jan 1977	1626	2447	1.3	82.9	356.3	.2	30.7	.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: 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	4.53	5.03	1942	1	16.44	1998	.77	1981
Feb	5.45	5.40	5.10+	1981	10	12.06	1988	.82	2000
Mar	6.40	5.92	6.62	1947	13	13.47	1980	2.82	1984
Apr	5.31	5.06	6.35	1935	20	14.12	1980	.15	1999
May	5.56	4.88	5.60	1995	9	14.15	1995	.10	1998
Jun	4.91	4.89	7.50	2001	6	11.65	1992	.61	1974
Jul	6.64	6.79	3.55	1941	4	10.94	1998	1.43	2000
Aug	5.29	4.43	6.55	1938	8	15.09	1977	.72	1980
Sep	4.77	3.65	7.20	1948	4	13.97	1998	.31	1997
Oct	3.39	2.77	6.17	1937	3	9.19	1985	.00	1978
Nov	4.98	4.03	4.31	1986	25	13.95	2000	.43	1999
Dec	5.15	4.22	6.67	1982	4	12.23	1983	1.47	1980
Ann	63.58	63.93	7.50	Jun 2001	6	16.44	Jan 1998	.00	Oct 1978

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.4	7.7	3.8	1.8
Feb	7.8	5.8	3.3	1.8
Mar	8.7	6.6	3.5	2.0
Apr	6.6	4.8	2.6	1.8
May	7.7	6.0	3.3	1.9
Jun	9.6	7.2	3.3	1.7
Jul	12.7	9.8	4.5	2.1
Aug	10.2	7.4	3.4	1.4
Sep	7.9	6.0	3.2	1.6
Oct	5.1	4.1	2.1	1.1
Nov	6.9	5.6	3.3	1.8
Dec	8.0	6.0	3.4	1.6
Ann	100.6	77.0	39.7	20.6

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	1.37	1.91	2.74	3.49	4.23	5.01	5.89	6.94	8.31	10.48	12.51
Feb	1.00	1.48	2.28	3.02	3.78	4.59	5.52	6.64	8.13	10.53	12.81
Mar	2.99	3.55	4.32	4.94	5.52	6.10	6.72	7.42	8.31	9.65	10.86
Apr	.53	.92	1.65	2.39	3.19	4.09	5.15	6.48	8.30	11.32	14.27
May	.76	1.21	2.01	2.78	3.60	4.49	5.53	6.80	8.52	11.32	14.03
Jun	1.09	1.54	2.26	2.91	3.56	4.25	5.03	5.96	7.19	9.14	10.99
Jul	2.44	3.06	3.96	4.71	5.42	6.15	6.95	7.87	9.05	10.86	12.52
Aug	1.20	1.69	2.46	3.16	3.85	4.59	5.42	6.42	7.72	9.80	11.76
Sep	.56	.92	1.59	2.26	2.97	3.75	4.68	5.82	7.37	9.93	12.42
Oct	.21	.55	1.08	1.58	2.11	2.68	3.36	4.18	5.30	7.13	8.91
Nov	1.06	1.51	2.24	2.91	3.57	4.28	5.09	6.05	7.32	9.34	11.26
Dec	1.67	2.16	2.88	3.49	4.08	4.69	5.36	6.15	7.16	8.73	10.18
Ann	46.22	49.61	53.94	57.21	60.11	62.90	65.79	68.97	72.82	78.38	83.19

\+ 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

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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	.2	.0	#	0	3.0	1973	12	3.0	1973	#	1982	14	#	1982	.1	.1	@	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	2.0	1973	9	2.0	1973	1	1988	6	#	1988	.1	.1	.0	.0	.0	.1	.0	.0	.0
Mar	#	.0	0	0	#	1989	7	#+	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1987	3	#	1987	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	0	0	0	.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	#	1971	22	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1997	11	#+	1997	#+	1997	11	#+	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	3.0	Jan 1973	12	3.0	Jan 1973	1	Feb 1988	6	#+	Dec 1997	.2	.2	@	.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	4/15	4/09	4/05	4/01	3/29	3/25	3/22	3/17	3/11
32	4/05	3/29	3/24	3/20	3/16	3/13	3/08	3/04	2/25
28	3/19	3/11	3/06	3/02	2/26	2/22	2/17	2/12	2/05
24	3/03	2/22	2/16	2/10	2/05	1/31	1/25	1/17	1/03
20	2/22	2/10	2/02	1/24	1/15	1/01	0/00	0/00	0/00
16	1/16	1/04	12/20	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	10/18	10/24	10/28	10/31	11/04	11/07	11/11	11/15	11/21
32	10/30	11/05	11/10	11/13	11/17	11/20	11/24	11/28	12/04
28	11/11	11/19	11/24	11/29	12/03	12/07	12/12	12/17	12/25
24	11/26	12/06	12/14	12/21	12/28	1/04	1/11	1/21	2/07
20	12/11	12/24	1/03	1/12	1/23	2/07	0/00	0/00	0/00
16	12/30	1/11	1/26	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	246	237	230	225	219	214	208	202	192
32	272	263	256	250	245	239	233	226	217
28	306	297	290	285	280	274	269	262	253
24	>365	>365	341	329	320	312	304	295	284
20	>365	>365	>365	>365	>365	>365	354	329	311
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	447	305	167	52	3	0	0	0	0	54	215	383	1626
60	320	186	79	12	0	0	0	0	0	17	124	256	994
57	253	129	42	4	0	0	0	0	0	8	82	194	712
55	215	99	26	2	0	0	0	0	0	4	59	159	564
50	134	40	6	0	0	0	0	0	0	0	22	84	286
32	7	0	0	0	0	0	0	0	0	0	0	0	7

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	600	626	897	1037	1297	1419	1535	1527	1360	1114	819	657	12888
55	95	80	209	348	584	729	822	814	670	405	187	102	5045
57	71	55	164	291	522	669	760	752	610	347	150	75	4466
60	45	28	107	209	429	579	667	659	520	263	103	44	3653
65	3	7	40	99	276	429	512	504	370	146	44	17	2447
70	2	0	10	31	140	279	357	349	224	61	15	5	1473

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	367	428	652	798	1051	1183	1289	1280	1124	869	584	424	367	795	1447	2245	3296	4479	5768	7048	8172	9041	9625	10049
45	243	301	501	649	896	1033	1134	1125	974	714	439	291	243	544	1045	1694	2590	3623	4757	5882	6856	7570	8009	8300
50	148	193	354	500	741	883	979	970	824	559	306	186	148	341	695	1195	1936	2819	3798	4768	5592	6151	6457	6643
55	76	107	226	354	586	733	824	815	674	407	193	106	76	183	409	763	1349	2082	2906	3721	4395	4802	4995	5101
60	33	49	123	220	431	583	669	660	524	266	108	53	33	82	205	425	856	1439	2108	2768	3292	3558	3666	3719
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	231	273	425	530	724	818	887	881	780	586	374	272	231	504	929	1459	2183	3001	3888	4769	5549	6135	6509	6781

(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