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: ROCKEFELLER WL REFUGE, LA **COOP ID: 167932**

Climate Division: LA 7 **NWS Call Sign:** **Elevation: 4 Feet** **Lat: 29˚44N** **Lon: 92˚49W**

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	60.4	42.1	51.3	79+	1965	3	58.0	1989	14	1982	11	40.9	1977	447	6	.0	.0	25.5	@	5.0	.0
Feb	63.7	45.1	54.4	82	2001	26	60.0	1999	19	1996	5	43.6	1978	309	12	.0	.0	25.3	.0	2.3	.0
Mar	70.6	52.3	61.5	82+	1974	13	66.5	1997	24+	1980	2	55.8	1996	151	41	.0	.0	30.3	.0	.5	.0
Apr	76.6	58.9	67.8	92	1987	29	72.5	1981	36	1971	7	63.2	1983	40	122	.0	.1	30.0	.0	.0	.0
May	83.6	67.1	75.4	94+	1982	31	78.0	2000	46	1996	1	72.6	1976	1	322	.0	1.1	31.0	.0	.0	.0
Jun	88.8	72.9	80.9	97+	1982	6	83.1	1980	52	1984	1	78.0	1988	0	475	.0	12.3	30.0	.0	.0	.0
Jul	90.7	74.8	82.8	102	1980	18	85.1	1980	61	1967	15	81.0	1989	0	550	@	22.1	31.0	.0	.0	.0
Aug	91.0	73.8	82.4	104	2000	31	85.3	1999	62+	1967	12	79.5	1992	0	541	.1	22.7	31.0	.0	.0	.0
Sep	88.0	70.0	79.0	105	2000	5	82.8	1980	48	1967	29	76.0	1975	0	420	.1	12.5	30.0	.0	.0	.0
Oct	80.7	59.8	70.3	95	1998	1	74.7	1973	31	1993	31	62.7	1976	31	194	.0	1.1	31.0	.0	@	.0
Nov	71.0	51.5	61.3	89	1975	9	67.8	1985	25	1976	30	52.3	1976	183	69	.0	.0	29.5	.0	.3	.0
Dec	63.6	44.5	54.1	81+	1978	8	63.2	1984	10	1989	23	44.0	1989	359	20	.0	.0	28.1	.1	2.9	.0
Ann	77.4	59.4	68.4	105	Sep 2000	5	85.3	Aug 1999	10	Dec 1989	23	40.9	Jan 1977	1521	2772	.2	71.9	352.7	.1	11.0	.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: 1964-2001

(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	5.88	5.17	6.70	1991	10	18.93	1991	.81	1971
Feb	3.57	2.70	4.20	1966	12	9.78	1988	.27	1975
Mar	3.64	3.31	6.00	2001	28	8.84	1995	.77	1981
Apr	3.92	3.53	4.88	1977	21	11.60	1997	.28	1976
May	5.06	5.21	7.10	1990	9	14.71	1991	.11	1998
Jun	5.35	4.57	4.10	2001	9	12.51	1987	.36	1979
Jul	7.17	6.62	4.88	1975	11	16.06	1975	2.64	1993
Aug	6.76	6.33	5.05	1978	29	18.34	1977	1.47	1976
Sep	6.19	4.66	8.70	1983	7	16.70	1973	1.53	1995
Oct	4.50	3.20	6.10	1985	28	20.31	1984	.12	2000
Nov	4.88	4.25	5.74	1993	15	12.21	2000	.50	1994
Dec	5.15	3.89	8.75	1995	18	15.99	1971	.98	1984
Ann	62.07	63.56	8.75	Dec 1995	18	20.31	Oct 1984	.11	May 1998

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	11.8	7.5	3.8	1.9
Feb	8.8	4.9	2.4	1.0
Mar	8.2	4.9	2.4	1.2
Apr	6.5	4.0	2.1	1.2
May	6.9	4.6	2.7	1.5
Jun	9.5	6.6	3.2	1.7
Jul	12.7	8.8	4.5	2.1
Aug	13.2	9.0	4.1	2.0
Sep	9.6	6.4	3.5	1.9
Oct	6.5	4.2	2.3	1.5
Nov	8.9	5.2	2.9	1.5
Dec	9.9	6.2	3.0	1.6
Ann	112.5	72.3	36.9	19.1

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	1.04	1.56	2.42	3.22	4.04	4.93	5.95	7.17	8.81	11.45	13.98
Feb	.47	.75	1.26	1.76	2.28	2.86	3.53	4.36	5.48	7.31	9.08
Mar	.93	1.27	1.80	2.27	2.73	3.22	3.76	4.40	5.25	6.57	7.82
Apr	.29	.54	1.04	1.58	2.18	2.88	3.71	4.76	6.22	8.68	11.11
May	.51	.88	1.58	2.28	3.04	3.90	4.91	6.17	7.90	10.76	13.57
Jun	.84	1.30	2.07	2.81	3.58	4.41	5.37	6.54	8.10	10.65	13.09
Jul	2.73	3.40	4.35	5.15	5.90	6.67	7.50	8.46	9.69	11.57	13.29
Aug	1.66	2.29	3.28	4.16	5.02	5.94	6.97	8.19	9.78	12.31	14.68
Sep	1.35	1.92	2.83	3.65	4.47	5.35	6.34	7.52	9.08	11.57	13.92
Oct	.40	.72	1.32	1.95	2.63	3.41	4.33	5.49	7.08	9.74	12.35
Nov	.87	1.30	2.01	2.68	3.36	4.10	4.93	5.95	7.30	9.49	11.57
Dec	1.35	1.83	2.58	3.24	3.88	4.57	5.32	6.22	7.39	9.24	10.96
Ann	45.08	48.40	52.64	55.84	58.68	61.43	64.25	67.37	71.15	76.61	81.32

+ 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: 1964-2001
(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	.1	.0	#	0
Feb	#	.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	.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	3.0	1973	12	3.0	1973	#	1982	14	#	1982
Feb	#	1994	2	#+	1994	#	1988	8	#	1988
Mar	.0	0	0	.0	0	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	.6	1989	23	.6	1989	1	1989	24	#+	1996
Ann	3.0	Jan 1973	12	3.0	Jan 1973	1	Dec 1989	24	#+	Dec 1996

Mean Number of Days (1)

Snow Fall >= Thresholds

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

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	.0	.0	.0	.0
Feb	.0	.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	.1	.0	.0	.0
Ann	.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	3/25	3/17	3/10	3/05	2/28	2/23	2/17	2/11	2/02
32	3/11	2/28	2/19	2/12	2/06	1/30	1/22	1/13	12/31
28	3/01	2/18	2/10	2/03	1/27	1/19	1/10	12/23	0/00
24	2/09	1/27	1/15	1/01	0/00	0/00	0/00	0/00	0/00
20	1/13	12/30	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	12/27	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	11/07	11/13	11/18	11/22	11/25	11/29	12/03	12/07	12/13
32	11/21	11/28	12/03	12/07	12/11	12/15	12/19	12/25	1/02
28	12/07	12/17	12/25	1/01	1/07	1/15	1/24	2/10	0/00
24	12/22	1/04	1/15	1/28	0/00	0/00	0/00	0/00	0/00
20	1/02	1/18	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/14	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	301	290	283	276	270	263	257	249	238
32	>365	334	321	313	306	299	292	284	273
28	>365	>365	>365	>365	353	336	323	311	296
24	>365	>365	>365	>365	>365	>365	>365	356	329
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	447	309	151	40	1	0	0	0	0	31	183	359	1521
60	318	195	67	9	0	0	0	0	0	8	103	237	937
57	252	141	34	3	0	0	0	0	0	3	66	178	677
55	214	111	20	1	0	0	0	0	0	2	47	144	539
50	133	51	4	0	0	0	0	0	0	0	17	73	278
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	602	628	913	1072	1344	1465	1573	1564	1410	1185	876	684	13316
55	96	95	220	383	631	775	860	851	720	474	233	115	5453
57	72	69	172	325	569	715	798	789	660	414	192	87	4862
60	45	38	112	241	476	625	705	696	570	326	139	52	4025
65	6	12	41	122	322	475	550	541	420	194	69	20	2772
70	5	0	10	44	175	325	395	386	272	92	27	7	1738

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	383	448	676	841	1103	1229	1329	1320	1174	945	654	463	383	831	1507	2348	3451	4680	6009	7329	8503	9448	10102	10565
45	257	315	523	691	948	1079	1174	1165	1024	790	504	323	257	572	1095	1786	2734	3813	4987	6152	7176	7966	8470	8793
50	158	201	379	541	793	929	1019	1010	874	636	372	204	158	359	738	1279	2072	3001	4020	5030	5904	6540	6912	7116
55	81	109	241	394	638	779	864	855	724	483	244	116	81	190	431	825	1463	2242	3106	3961	4685	5168	5412	5528
60	34	49	130	255	483	629	709	700	574	335	144	58	34	83	213	468	951	1580	2289	2989	3563	3898	4042	4100
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	210	249	408	548	785	885	948	933	830	637	401	264	210	459	867	1415	2200	3085	4033	4966	5796	6433	6834	7098

(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