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: NEW ORLEANS INTL AP, LA **COOP ID: 166660**

Climate Division: LA 9 **NWS Call Sign: MSY** **Elevation: 4 Feet** **Lat: 30˚00N** **Lon: 90˚15W**

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	61.8	43.4	52.6	83+	1957	31	63.1	1974	14+	1962	11	43.2	1977	403	12	.0	.0	26.4	.1	4.6	.0
Feb	65.3	46.1	55.7	85	1972	26	61.4	1990	16	1996	5	44.9	1978	288	19	.0	.0	26.0	.0	2.4	.0
Mar	72.1	52.7	62.4	89	1982	18	67.2	1974	25+	1980	2	58.4	1996	150	62	.0	.0	30.7	.0	.4	.0
Apr	78.0	58.4	68.2	92	1987	21	73.1	1999	32	1971	8	64.0	1993	44	136	.0	.3	30.0	.0	@	.0
May	84.8	66.4	75.6	95+	1977	30	80.1	2000	41	1960	13	71.9	1993	1	320	.0	3.9	31.0	.0	.0	.0
Jun	89.4	72.0	80.7	100	1954	30	83.7	1981	50	1984	1	77.8	1984	0	466	.0	15.8	30.0	.0	.0	.0
Jul	91.1	74.2	82.7	101+	1980	16	85.7	1980	60	1967	16	79.3	1984	0	538	.2	21.5	31.0	.0	.0	.0
Aug	91.0	73.9	82.5	102	1980	22	85.5	1999	60	1968	30	79.6	1992	0	534	.1	22.3	31.0	.0	.0	.0
Sep	87.1	70.6	78.9	101	1980	10	83.3	1980	42	1967	30	74.9	1975	0	413	.1	10.2	30.0	.0	.0	.0
Oct	79.7	60.2	70.0	94	1998	1	73.8	1984	35+	1968	29	63.7	1976	30	182	.0	1.1	31.0	.0	.0	.0
Nov	71.0	51.8	61.4	87+	1986	9	67.5	1985	24	1970	25	52.5	1976	169	62	.0	.0	29.6	.0	.7	.0
Dec	64.5	45.6	55.1	84+	1971	16	63.8	1971	11	1989	23	47.0	1989	332	29	.0	.0	28.2	.1	3.5	.0
Ann	78.0	59.6	68.8	102	Aug 1980	22	85.7	Jul 1980	11	Dec 1989	23	43.2	Jan 1977	1417	2773	.4	75.1	354.9	.2	11.6	.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: 1954-2001

(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	5.87	4.38	4.70	1998	5	19.28	1998	.94	1981
Feb	5.47	5.11	4.85	1983	1	12.59	1983	.15	1989
Mar	5.24	4.89	5.10	1973	24	12.17	1973	1.88	1986
Apr	5.02	3.84	6.41	1983	7	16.12	1980	.28	1976
May	4.62	3.69	9.85	1959	31	14.28	1991	.07	2000
Jun	6.83	7.09	5.98	2001	6	15.01	1987	.23	1979
Jul	6.20	5.76	4.32	1996	8	13.15	1991	1.38	2000
Aug	6.15	5.48	4.82	1975	1	16.12	1977	1.68	1980
Sep	5.55	4.55	5.64	1998	11	18.98	1998	.69	1995
Oct	3.05	2.49	4.20	1985	27	13.20	1985	.00	1978
Nov	5.09	4.14	8.52	1975	5	15.27	1992	.28	1999
Dec	5.07	4.70	6.47	1990	3	10.26	1982	1.54	1980
Ann	64.16	60.84	9.85	May 1959	31	19.28	Jan 1998	.00	Oct 1978

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.5	7.1	3.8	1.9
Feb	8.4	5.7	3.5	1.8
Mar	8.6	6.0	3.2	2.1
Apr	7.2	4.8	2.7	1.5
May	8.0	5.8	2.7	1.6
Jun	11.8	8.4	4.6	2.5
Jul	13.9	9.5	4.3	1.7
Aug	13.2	8.7	3.9	1.7
Sep	10.2	7.2	3.3	1.7
Oct	5.9	3.7	2.3	1.0
Nov	8.6	6.0	3.3	1.8
Dec	9.4	6.2	3.1	1.5
Ann	115.7	79.1	40.7	20.8

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	1.57	2.43	3.23	4.05	4.93	5.94	7.16	8.78	11.39	13.89
Feb	.72	1.16	1.93	2.70	3.50	4.39	5.42	6.69	8.40	11.22	13.94
Mar	1.95	2.44	3.14	3.73	4.29	4.86	5.48	6.20	7.11	8.52	9.81
Apr	.49	.85	1.53	2.23	2.98	3.84	4.85	6.12	7.85	10.74	13.56
May	.43	.76	1.38	2.02	2.72	3.51	4.45	5.63	7.25	9.94	12.58
Jun	1.29	1.90	2.90	3.83	4.77	5.78	6.93	8.32	10.16	13.13	15.95
Jul	1.93	2.52	3.39	4.14	4.87	5.62	6.45	7.42	8.68	10.63	12.44
Aug	1.46	2.03	2.93	3.73	4.53	5.38	6.32	7.44	8.92	11.26	13.46
Sep	.86	1.33	2.14	2.90	3.70	4.57	5.56	6.78	8.42	11.07	13.62
Oct	.26	.60	1.09	1.54	2.00	2.50	3.07	3.77	4.70	6.21	7.66
Nov	.73	1.15	1.89	2.59	3.33	4.14	5.07	6.22	7.76	10.27	12.69
Dec	1.79	2.27	2.97	3.55	4.10	4.68	5.30	6.02	6.95	8.38	9.70
Ann	42.25	46.36	51.71	55.81	59.48	63.06	66.77	70.91	75.96	83.35	89.79

+ 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: 1954-2001
(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	.0	.0	0	0	.4	1985	20	.4	1985	#+	1985	21	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	#	0	.6	1973	9	.6	1973	1	1973	10	#	1973	.0	.0	.0	.0	.0	@	.0	.0	.0
Mar	#	.0	0	0	#	1993	12	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	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	#	1985	.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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.5	1989	22	.5	1989	1	1989	23	#	1989	.0	.0	.0	.0	.0	@	.0	.0	.0
Ann	#	.0	N/A	N/A	.6	Feb 1973	9	.6	Feb 1973	1+	Dec 1989	23	#+	Dec 1989	.1	.0	.0	.0	.0	.0	.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	3/27	3/19	3/13	3/08	3/03	2/26	2/21	2/15	2/07
32	3/13	3/03	2/24	2/18	2/12	2/06	1/31	1/24	1/14
28	2/24	2/15	2/09	2/03	1/28	1/21	1/13	0/00	0/00
24	2/03	1/22	1/11	12/24	0/00	0/00	0/00	0/00	0/00
20	1/16	12/29	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	1/06	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	11/12	11/18	11/22	11/27	12/02	12/07	12/12	12/20
32	11/19	11/27	12/02	12/07	12/11	12/15	12/20	12/25	1/01
28	11/30	12/10	12/18	12/25	12/31	1/08	1/18	0/00	0/00
24	12/29	1/07	1/16	0/00	0/00	0/00	0/00	0/00	0/00
20	1/09	1/29	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	301	290	282	275	268	262	255	247	235
32	340	325	315	307	300	293	285	276	264
28	>365	>365	>365	>365	341	324	314	304	293
24	>365	>365	>365	>365	>365	>365	>365	>365	351
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	403	288	150	44	1	0	0	0	0	30	169	332	1417
60	296	162	54	6	0	0	0	0	0	7	97	214	836
57	236	113	26	2	0	0	0	0	0	3	61	159	600
55	202	85	15	0	0	0	0	0	0	1	42	127	472
50	125	34	2	0	0	0	0	0	0	0	15	60	236
32	8	0	0	0	0	0	0	0	0	0	0	0	8

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	640	663	939	1083	1347	1457	1564	1559	1403	1175	881	715	13426
55	94	117	253	395	634	767	851	846	713	463	230	128	5491
57	71	89	205	338	572	707	789	784	653	402	187	100	4897
60	44	56	142	255	479	617	696	691	563	313	132	67	4055
65	12	19	62	136	320	466	538	534	413	182	62	29	2773
70	2	4	19	53	179	317	386	381	268	82	20	7	1718

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	412	470	702	854	1109	1226	1325	1323	1169	934	650	482	412	882	1584	2438	3547	4773	6098	7421	8590	9524	10174	10656
45	284	337	548	704	954	1076	1170	1168	1019	779	501	342	284	621	1169	1873	2827	3903	5073	6241	7260	8039	8540	8882
50	177	219	398	554	799	926	1015	1013	869	624	362	224	177	396	794	1348	2147	3073	4088	5101	5970	6594	6956	7180
55	96	127	261	407	644	776	860	858	719	470	236	134	96	223	484	891	1535	2311	3171	4029	4748	5218	5454	5588
60	48	63	148	267	489	626	705	703	569	323	136	66	48	111	259	526	1015	1641	2346	3049	3618	3941	4077	4143
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	232	271	431	565	783	866	930	929	830	626	401	283	232	503	934	1499	2282	3148	4078	5007	5837	6463	6864	7147

(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