

Climatography of the United States

No. 20

1971-2000

Station: MANSFIELD, LA

COOP ID: 165874

Climate Division: LA 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 32°02N

Lon: 93°42W

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	.0	.0	.0	81	1957	10	.0	0	0	1962	12	.0	0	0	0	.0	.0	22.1	.7	13.6	.0
Feb	.0	.0	.0	87	1999	11	.0	0	15	1963	13	.0	0	0	0	.0	.0	23.6	.4	9.0	.0
Mar	.0	.0	.0	90+	1955	11	.0	0	20	1960	4	.0+	0	0	0	.0	.0	30.5	.0	4.1	.0
Apr	.0	.0	.0	93	1955	5	.0	0	32+	1961	16	.0	0	0	0	.0	.1	30.0	.0	.6	.0
May	.0	.0	.0	98	1998	31	.0	0	40+	1960	11	.0	0	0	0	.0	3.8	31.0	.0	.0	.0
Jun	.0	.0	.0	102+	1963	13	.0	0	51	1955	11	.0	0	0	0	.2	17.8	30.0	.0	.0	.0
Jul	.0	.0	.0	105+	1998	8	.0	0	62+	1999	13	.0	0	0	0	2.1	27.0	31.0	.0	.0	.0
Aug	.0	.0	.0	109	1962	13	.0	0	53	1963	16	.0	0	0	0	2.7	26.4	31.0	.0	.0	.0
Sep	.0	.0	.0	109+	2000	1	.0	0	40	2000	27	.0	0	0	0	.6	15.1	30.0	.0	.0	.0
Oct	.0	.0	.0	97	1954	6	.0	0	30	1957	28	.0	0	0	0	.0	1.6	31.0	.0	.2	.0
Nov	.0	.0	.0	86+	1955	2	.0	0	20+	1959	18	.0	0	0	0	.0	.0	28.4	.0	4.7	.0
Dec	.0	.0	.0	82+	1955	24	.0	0	10	1963	23	.0	0	0	0	.0	.0	25.4	.1	3.4	.0
Ann	.0	.0	.0	109+	Sep 2000	1	-99.9	0	0	Jan 1962	12	99.9	0	0	0	5.6	91.8	344.0	1.2	35.6	.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/normal/usnormals.html

Issue Date: February 2004

(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

032-A

Climatology 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: MANSFIELD, LA

COOP ID: 165874

Climate Division: LA 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 32°02N

Lon: 93°42W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	5.09	4.44	4.65	1998	7	12.79	1999	.64	1986	9.4	7.2	3.5	1.6	.98	1.44	2.19	2.88	3.57	4.32	5.17	6.20	7.56	9.74	11.82
Feb	4.38	3.50	3.20	1994	10	10.64	1987	.17	1996	7.4	5.8	3.0	1.6	.76	1.14	1.78	2.38	2.99	3.66	4.42	5.34	6.57	8.55	10.44
Mar	4.63	4.32	4.70	2000	22	10.85	2000	.78	1986	9.0	6.3	3.1	1.5	1.33	1.77	2.43	3.01	3.57	4.16	4.81	5.57	6.56	8.11	9.55
Apr	4.30	3.42	4.75	1980	12	11.12	1991	.29	1971	6.9	5.2	2.7	1.6	.62	.98	1.60	2.20	2.82	3.50	4.29	5.26	6.56	8.68	10.72
May	5.50	5.52	5.67	1990	13	12.06	1975	.04	1998	8.8	6.9	3.5	1.9	.60	1.02	1.78	2.55	3.37	4.29	5.37	6.71	8.54	11.56	14.51
Jun	4.56	4.00	7.79	1990	1	13.07	1992	.54	1980	8.1	6.0	2.9	1.6	.97	1.39	2.05	2.66	3.27	3.92	4.66	5.54	6.70	8.56	10.31
Jul	3.25	2.61	4.36	1972	30	9.31	1972	.40	2000	7.0	4.4	1.8	1.0	.45	.71	1.18	1.63	2.10	2.62	3.23	3.97	4.97	6.61	8.19
Aug	3.01	2.72	8.80	1955	3	7.16	1997	.17	2000	6.4	4.3	1.7	.8	.43	.67	1.11	1.52	1.96	2.44	2.99	3.67	4.59	6.08	7.52
Sep	3.45	3.17	9.52	1958	21	8.61	1974	.77	1994	6.4	4.6	2.1	1.1	.99	1.32	1.82	2.24	2.66	3.10	3.58	4.14	4.88	6.03	7.10
Oct	4.19	3.50	5.35	1994	17	13.25	1985	.48	1983	6.0	4.3	2.6	1.6	.73	1.09	1.70	2.28	2.86	3.50	4.23	5.11	6.28	8.18	10.00
Nov	4.83	4.39	4.03	1979	22	13.23	2000	.32	1999	7.6	6.0	3.2	1.7	1.13	1.58	2.29	2.92	3.55	4.21	4.96	5.85	7.02	8.87	10.62
Dec	5.09	5.40	4.55	1982	15	10.42	1982	.76	1980	8.4	6.6	3.4	1.7	1.60	2.08	2.80	3.41	4.01	4.62	5.29	6.09	7.10	8.69	10.16
Ann	52.28	51.09	9.52	Sep 1958	21	13.25	Oct 1985	.04	May 1998	91.4	67.6	33.5	17.7	38.58	41.27	44.69	47.27	49.55	51.75	54.02	56.51	59.53	63.88	67.63

+ 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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Climatography of the United States

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1971-2000

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151 Patton Avenue
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Station: MANSFIELD, LA

COOP ID: 165874

Climate Division: LA 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 32°02N

Lon: 93°42W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	.6	.0	#	0	6.0	1977	31	6.0	1977	6	1977	31	#+	1988	.2	.2	@	@	.0	.4	@	@	.0
Feb	.1	.0	#	0	1.5	1978	9	1.5	1978	1	1978	9	#+	1988	.1	@	.0	.0	.0	@	.0	.0	.0
Mar	.0	.0	#	0	.5	1978	4	.5	1978	1	1978	4	#+	1993	@	.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	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	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.2	1996	17	.2	1996	2	1983	17	#+	1996	@	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	6.0	Jan 1977	31	6.0	Jan 1977	6	Jan 1977	31	#+	Dec 1996	.3	.2	@	@	.0	.4	@	@	.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

Complete documentation available from:

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Climate Division: LA 1

NWS Call Sign:

Elevation: 400 Feet

Lat: 32°02N

Lon: 93°42W

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	4/10	4/07	4/04	4/01	3/29	3/26	3/23	3/18
32	4/08	4/01	3/27	3/22	3/18	3/14	3/10	3/05	2/26
28	3/25	3/16	3/09	3/04	2/27	2/21	2/16	2/09	1/31
24	3/06	2/25	2/19	2/14	2/08	2/03	1/27	1/17	0/00
20	2/23	2/14	2/06	1/30	1/23	1/11	0/00	0/00	0/00
16	1/28	1/20	1/12	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	10/20	10/26	10/30	11/02	11/05	11/08	11/12	11/16	11/21
32	10/29	11/04	11/09	11/13	11/17	11/20	11/24	11/29	12/05
28	11/03	11/13	11/20	11/26	12/02	12/08	12/14	12/21	12/31
24	11/28	12/10	12/19	12/27	1/04	1/12	1/21	2/05	0/00
20	12/16	12/26	1/04	1/12	1/22	2/08	0/00	0/00	0/00
16	12/29	1/10	1/21	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	240	232	227	222	218	213	208	203	195
32	271	261	254	248	242	237	231	223	214
28	316	303	293	285	278	270	262	252	239
24	>365	>365	>365	347	330	319	308	297	283
20	>365	>365	>365	>365	>365	>365	341	323	304
16	>365	>365	>365	>365	>365	>365	>365	>365	352

* 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

Complete documentation available from:
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Climate Division: LA 1 NWS Call Sign: Elevation: 400 Feet Lat: 32°02N Lon: 93°42W

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	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0

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	233	322	479	718	993	1172	1319	1304	1085	799	473	267	233	555	1034	1752	2745	3917	5236	6540	7625	8424	8897	9164
45	136	211	327	568	838	1022	1164	1149	935	644	335	140	136	347	674	1242	2080	3102	4266	5415	6350	6994	7329	7469
50	71	124	189	418	683	872	1009	994	785	492	219	51	71	195	384	802	1485	2357	3366	4360	5145	5637	5856	5907
55	33	61	84	273	528	722	854	839	635	344	128	12	33	94	178	451	979	1701	2555	3394	4029	4373	4501	4513
60	14	27	28	140	373	572	699	684	488	211	64	4	14	41	69	209	582	1154	1853	2537	3025	3236	3300	3304
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	150	212	303	465	673	808	894	870	729	526	301	175	150	362	665	1130	1803	2611	3505	4375	5104	5630	5931	6106

(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/normal/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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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