

Climatography of the United States

No. 20

1971-2000

Station: BASTROP, LA

COOP ID: 160537

Climate Division: LA 3

NWS Call Sign:

Elevation: 150 Feet

Lat: 32°47N

Lon: 91°54W

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	54.5	33.7	44.1	84+	1952	2	50.4	1975	4+	1962	12	34.9	1977	648	0	.0	.0	21.2	.7	14.1	.0
Feb	60.2	37.1	48.7	86	1977	25	57.8	1976	5	1951	2	38.4	1978	459	2	.0	.0	22.8	.4	8.7	.0
Mar	68.4	45.2	56.8	93	1974	31	62.4	1974	16	1996	9	50.8	1996	270	17	.0	.1	29.7	.0	2.9	.0
Apr	75.6	52.2	63.9	94+	1987	21	70.6	1981	28	1989	11	58.9	1997	106	72	.0	.3	30.0	.0	.2	.0
May	83.1	61.4	72.3	101	1951	31	75.6+	1987	42+	1954	4	68.0	1976	11	236	.0	5.2	31.0	.0	.0	.0
Jun	89.8	68.8	79.3	104	1953	22	83.2	1998	48	1966	1	76.1	1974	0	429	.4	18.9	30.0	.0	.0	.0
Jul	92.8	72.0	82.4	108	1954	17	87.4	1980	54	1967	15	79.5+	1994	0	538	2.0	25.8	31.0	.0	.0	.0
Aug	92.8	70.7	81.8	107	2000	31	86.4	2000	51	1986	30	76.2	1992	0	520	2.7	25.1	31.0	.0	.0	.0
Sep	87.5	64.7	76.1	110	1951	5	82.2	1980	38	1967	29	70.3	1974	6	337	.7	14.8	30.0	.0	.0	.0
Oct	78.1	53.3	65.7	100	1954	7	71.6	1971	27	1993	31	59.8	1976	81	103	.0	1.9	31.0	.0	.1	.0
Nov	65.9	42.8	54.4	89	1971	2	60.8	1985	18+	1970	24	47.1	1976	332	12	.0	.0	28.2	.0	4.0	.0
Dec	57.0	36.2	46.6	85	1965	6	55.8	1984	3+	1989	23	36.0	2000	574	3	.0	.0	23.2	.7	11.4	.0
Ann	75.5	53.2	64.3	110	Sep 1951	5	87.4	Jul 1980	3+	Dec 1989	23	34.9	Jan 1977	2487	2269	5.8	92.1	339.1	1.8	41.4	.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: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

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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: BASTROP, LA

COOP ID: 160537

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NWS Call Sign:

Elevation: 150 Feet

Lat: 32°47N

Lon: 91°54W

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	5.83	5.05	4.90	1951	3	14.88	1999	.51	1986	10.6	7.2	3.9	2.2	1.27	1.81	2.67	3.44	4.21	5.04	5.97	7.08	8.55	10.88	13.09
Feb	5.03	4.51	4.60	1984	12	11.28	1987	.98	1999	8.2	6.0	3.5	1.7	1.24	1.71	2.44	3.10	3.74	4.42	5.18	6.08	7.26	9.14	10.89
Mar	6.16	5.59	5.85	1955	21	12.08	1980	2.25	1978	9.7	7.3	4.0	2.2	2.35	2.92	3.74	4.43	5.07	5.74	6.45	7.28	8.34	9.96	11.45
Apr	5.70	4.55	8.67	1991	28	24.89	1991	.79	1987	7.9	6.1	3.4	1.8	1.07	1.58	2.42	3.19	3.97	4.82	5.78	6.94	8.48	10.96	13.31
May	5.51	4.10	6.42	1989	5	13.87	1975	.64	1998	9.3	6.8	3.4	1.7	.90	1.38	2.18	2.94	3.72	4.57	5.54	6.73	8.31	10.88	13.34
Jun	4.48	3.70	3.40	1962	27	9.25	1993	.88	1995	8.8	6.4	3.0	1.4	1.09	1.51	2.16	2.75	3.32	3.93	4.62	5.43	6.49	8.18	9.76
Jul	3.82	3.30	5.33	1969	25	12.83	1989	.90	1980	8.2	5.9	2.4	1.1	.67	1.01	1.57	2.09	2.62	3.20	3.86	4.66	5.72	7.44	9.08
Aug	2.68	2.21	3.60	1984	20	10.10	1974	.29	2000	7.0	4.7	1.8	.7	.36	.58	.96	1.34	1.73	2.16	2.66	3.27	4.10	5.45	6.76
Sep	3.24	2.31	4.38	1965	10	9.02	1979	.95	1989	6.8	5.0	2.1	1.0	.79	1.09	1.57	1.99	2.41	2.85	3.34	3.93	4.69	5.91	7.05
Oct	4.06	3.89	4.39	1982	12	11.43	1985	.13	1971	6.7	4.6	2.4	1.5	.43	.73	1.30	1.86	2.47	3.16	3.96	4.96	6.33	8.59	10.80
Nov	4.99	4.49	3.90	1971	18	11.03	1987	1.09	1999	8.3	6.1	3.2	1.5	1.69	2.16	2.85	3.44	4.00	4.57	5.20	5.94	6.88	8.35	9.69
Dec	5.60	5.11	5.90	1982	26	18.71	1982	.62	1980	9.7	7.0	4.0	1.9	1.43	1.96	2.78	3.49	4.20	4.95	5.78	6.77	8.06	10.09	11.99
Ann	57.10	52.83	8.67	Apr 1991	28	24.89	Apr 1991	.13	Oct 1971	101.2	73.1	37.1	18.7	38.95	42.41	46.87	50.28	53.32	56.27	59.33	62.72	66.85	72.87	78.10

+ 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: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
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Station: BASTROP, LA

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Climate Division: LA 3

NWS Call Sign:

Elevation: 150 Feet

Lat: 32°47N

Lon: 91°54W

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	.5	.0	#	0	5.0	1985	3	5.0	1985	5	1985	3	#+	1996	.2	.1	.1	.1	.0	.2	.1	@	.0
Feb	.1	.0	#	0	1.0	1988	12	1.0	1988	1	1988	12	#+	1994	.2	.1	.0	.0	.0	@	.0	.0	.0
Mar	.1	.0	#	0	2.5	1993	12	2.5+	1993	2	1993	12	#	1993	.1	.1	.0	.0	.0	.1	.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	#	1997	15	#+	1997	#	1997	15	#	1997	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	#	0	.3	1996	16	.4	1983	#+	1989	21	#+	1989	.2	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	5.0	Jan 1985	3	5.0	Jan 1985	5	Jan 1985	3	#+	Nov 1997	.7	.3	.1	.1	.0	.3	.1	@	.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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NWS Call Sign:

Elevation: 150 Feet

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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	4/14	4/09	4/05	4/02	3/30	3/27	3/24	3/20	3/15
32	4/04	3/28	3/22	3/18	3/14	3/10	3/05	2/28	2/21
28	3/18	3/09	3/03	2/26	2/22	2/17	2/12	2/06	1/29
24	3/11	3/01	2/21	2/15	2/09	2/03	1/28	1/20	1/10
20	2/22	2/12	2/04	1/29	1/22	1/15	1/06	12/20	0/00
16	2/07	1/26	1/16	1/05	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	10/23	10/27	10/30	11/02	11/05	11/08	11/12	11/17
32	10/30	11/05	11/09	11/13	11/16	11/19	11/23	11/27	12/03
28	11/10	11/16	11/21	11/25	11/28	12/02	12/06	12/11	12/17
24	11/16	11/26	12/03	12/09	12/15	12/20	12/26	1/02	1/12
20	12/07	12/14	12/20	12/24	12/29	1/03	1/09	1/20	0/00
16	12/21	12/30	1/08	1/20	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	238	230	225	221	216	212	208	202	195
32	275	265	258	252	246	241	235	228	218
28	310	300	292	285	279	273	266	258	248
24	350	331	320	312	305	297	290	281	269
20	>365	>365	>365	>365	346	333	323	313	300
16	>365	>365	>365	>365	>365	>365	>365	>365	334

* 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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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	648	459	270	106	11	0	0	0	6	81	332	574	2487
60	504	330	154	41	2	0	0	0	0	29	209	430	1699
57	419	258	102	19	0	0	0	0	0	13	151	349	1311
55	365	214	73	11	0	0	0	0	0	7	117	299	1086
50	246	127	26	1	0	0	0	0	0	1	55	193	649
32	22	3	0	0	0	0	0	0	0	0	0	12	37

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	396	470	770	957	1248	1419	1561	1543	1322	1044	671	464	11865
55	27	37	130	277	535	729	848	830	632	338	98	38	4519
57	18	25	96	226	473	669	786	768	572	282	71	26	4012
60	11	13	56	158	381	579	693	675	482	206	40	15	3309
65	0	2	17	72	236	429	538	520	337	103	12	3	2269
70	0	0	3	23	117	280	383	366	207	39	1	0	1419

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	234	328	560	745	1023	1191	1331	1310	1100	817	476	285	234	562	1122	1867	2890	4081	5412	6722	7822	8639	9115	9400
45	140	219	416	595	868	1041	1176	1155	950	662	337	171	140	359	775	1370	2238	3279	4455	5610	6560	7222	7559	7730
50	75	133	281	450	713	891	1021	1000	800	510	222	98	75	208	489	939	1652	2543	3564	4564	5364	5874	6096	6194
55	39	66	171	309	558	741	866	845	650	359	130	50	39	105	276	585	1143	1884	2750	3595	4245	4604	4734	4784
60	16	26	86	187	405	591	711	690	500	230	63	18	16	42	128	315	720	1311	2022	2712	3212	3442	3505	3523
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	145	206	345	483	690	817	905	888	740	536	296	171	145	351	696	1179	1869	2686	3591	4479	5219	5755	6051	6222

(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