

Climatology of the United States

No. 20

1971-2000

Station: ST JOSEPH 3 N, LA

COOP ID: 168163

Climate Division: LA 3

NWS Call Sign:

Elevation: 78 Feet

Lat: 31° 57N

Lon: 91° 14W

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	56.2	36.6	46.4	83	1952	2	53.0	1989	-8	1940	27	36.3	1977	586	0	.0	.0	21.4	1.1	12.0	.0
Feb	60.8	39.8	50.3	84+	1986	21	57.1+	1990	2	1951	3	40.1	1978	418	7	.0	.0	22.6	.5	7.8	.0
Mar	68.9	47.4	58.2	89	1946	30	63.6	2000	18	1980	3	53.0	1978	235	23	.0	.0	29.3	.0	1.9	.0
Apr	76.3	54.3	65.3	95	1994	30	71.4	1981	29	1936	3	60.6	1983	80	89	.0	.5	30.0	.0	.2	.0
May	83.8	63.3	73.6	97+	1951	30	77.6	2000	40	1931	13	68.2	1976	10	275	.0	5.9	31.0	.0	.0	.0
Jun	90.1	69.9	80.0	103	1936	20	83.9	1998	47	1930	10	76.5	1974	0	451	.2	18.7	30.0	.0	.0	.0
Jul	92.6	72.7	82.7	104	1930	12	85.7	1998	52	1967	15	79.8	1972	0	546	.7	25.1	31.0	.0	.0	.0
Aug	92.3	71.2	81.8	106	2000	31	85.1	2000	52	1931	25	78.0	1992	0	519	1.1	23.8	31.0	.0	.0	.0
Sep	87.9	65.6	76.8	107	2000	1	81.9	1998	35	1967	29	71.7	1974	3	356	.2	14.2	30.0	.0	.0	.0
Oct	79.0	53.8	66.4	97+	1998	2	71.3	1998	24	1952	30	59.7	1976	71	113	.0	2.3	31.0	.0	.2	.0
Nov	68.3	46.0	57.2	88	1998	1	62.5	1985	18+	1937	21	48.4	1976	260	26	.0	.0	28.5	.0	2.8	.0
Dec	59.3	39.1	49.2	85	1987	15	58.7	1984	5	1989	23	40.4	1989	500	10	.0	.0	24.7	.5	9.3	.0
Ann	76.3	55.0	65.7	107	Sep 2000	1	85.7	Jul 1998	-8	Jan 1940	27	36.3	Jan 1977	2163	2415	2.2	90.5	340.5	2.1	34.2	.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: 1930-2001

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

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No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

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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	6.31	5.98	6.64	1979	20	17.50	1979	.76	1986	11.1	7.8	4.0	2.1	1.63	2.23	3.14	3.95	4.75	5.58	6.51	7.62	9.06	11.33	13.46
Feb	4.93	4.41	6.52	1946	9	10.61	1987	.99	2000	8.5	5.9	3.2	1.7	1.35	1.82	2.53	3.15	3.76	4.40	5.10	5.94	7.03	8.73	10.33
Mar	6.31	6.16	6.73	1977	4	14.52	1976	2.82	1982	9.6	7.2	4.1	2.1	2.40	2.99	3.83	4.53	5.19	5.87	6.60	7.46	8.54	10.21	11.73
Apr	5.45	4.33	9.85	1940	4	15.90	1991	.81	1972	7.8	5.5	3.3	2.0	.88	1.35	2.14	2.89	3.66	4.50	5.47	6.65	8.22	10.78	13.23
May	5.44	5.26	7.37	1990	13	14.65	1983	.45	1998	8.5	6.5	3.5	1.7	.89	1.36	2.15	2.90	3.67	4.51	5.47	6.64	8.21	10.75	13.18
Jun	3.81	3.75	5.49	1959	9	10.06	1989	.59	1988	8.3	5.7	2.6	1.2	.96	1.32	1.87	2.36	2.85	3.36	3.93	4.61	5.50	6.90	8.22
Jul	3.79	3.26	4.67	1931	27	9.65	1989	.83	1983	9.1	6.2	2.8	1.1	1.20	1.56	2.10	2.55	2.99	3.45	3.95	4.54	5.29	6.47	7.56
Aug	3.22	3.18	4.64	1942	11	7.39	1992	.35	1989	7.6	5.3	2.1	.8	.48	.75	1.21	1.66	2.12	2.63	3.22	3.93	4.90	6.47	7.98
Sep	3.06	2.84	4.43	1950	27	7.94	1971	.43	1984	7.2	5.0	2.2	1.0	.84	1.13	1.57	1.96	2.34	2.73	3.17	3.69	4.37	5.43	6.42
Oct	3.51	3.17	5.93	1975	16	11.73	1984	.06	1989	6.3	4.6	2.5	1.1	.35	.60	1.08	1.57	2.10	2.70	3.40	4.28	5.49	7.50	9.46
Nov	5.02	4.08	9.70	1964	28	11.66	1987	.94	1999	8.5	6.2	3.2	1.6	1.28	1.75	2.48	3.13	3.76	4.43	5.18	6.06	7.22	9.05	10.76
Dec	5.58	5.01	4.93	1973	25	13.87	1982	.88	1980	9.7	7.0	3.7	1.8	1.72	2.25	3.04	3.72	4.38	5.06	5.81	6.69	7.83	9.60	11.24
Ann	56.43	56.16	9.85	Apr 1940	4	17.50	Jan 1979	.06	Oct 1989	102.2	72.9	37.2	18.2	41.05	44.06	47.89	50.79	53.37	55.85	58.40	61.22	64.64	69.57	73.83

+ 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															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	.7	.0	#	0	4.0	1977	31	5.0	1977	4+	1978	21	#+	1982	.4	.2	.1	.0	.0	.2	.1	.0	.0
Feb	.1	.0	#	0	.5	1985	1	.6	1985	1	1985	3	#+	1988	.2	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	#	0	#	1980	2	#+	1980	#+	1980	2	#+	1980	.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	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	#	1976	29	#+	1976	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	0	0	#	1978	9	#	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.8	.0	N/A	N/A	4.0	Jan 1977	31	5.0	Jan 1977	4+	Jan 1978	21	#+	Feb 1988	.6	.2	.1	.0	.0	.2	.1	.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	4/10	4/04	3/30	3/26	3/22	3/18	3/14	3/10	3/03
32	3/27	3/21	3/16	3/12	3/08	3/05	3/01	2/24	2/18
28	3/07	2/28	2/23	2/18	2/14	2/10	2/05	1/31	1/24
24	3/05	2/22	2/15	2/08	2/01	1/26	1/18	1/07	0/00
20	2/15	2/05	1/28	1/21	1/12	12/28	0/00	0/00	0/00
16	1/18	12/31	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	10/15	10/22	10/27	10/31	11/04	11/08	11/13	11/18	11/25
32	10/31	11/06	11/10	11/14	11/17	11/21	11/24	11/29	12/05
28	11/14	11/21	11/26	11/30	12/04	12/08	12/12	12/17	12/24
24	11/22	12/03	12/11	12/19	12/25	1/01	1/10	1/21	0/00
20	12/16	12/25	1/01	1/07	1/14	1/25	0/00	0/00	0/00
16	1/09	1/28	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	257	246	239	233	227	221	214	207	197
32	280	270	264	258	253	248	242	235	226
28	321	311	304	298	292	286	280	273	263
24	>365	>365	357	336	325	316	307	298	285
20	>365	>365	>365	>365	>365	>365	348	335	323
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

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	586	418	235	80	10	0	0	0	3	71	260	500	2163
60	443	291	129	26	1	0	0	0	0	23	156	361	1430
57	363	224	82	11	0	0	0	0	0	10	107	287	1084
55	314	185	57	5	0	0	0	0	0	5	81	243	890
50	212	107	19	0	0	0	0	0	0	0	33	153	524
32	18	2	0	0	0	0	0	0	0	0	0	7	27

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	463	515	810	998	1289	1441	1569	1542	1343	1066	755	541	12332
55	47	54	155	314	576	751	856	829	653	358	146	64	4803
57	33	37	117	259	514	691	794	767	593	300	113	45	4263
60	20	20	72	184	422	601	701	674	503	221	71	26	3515
65	0	7	23	89	275	451	546	519	356	113	26	10	2415
70	0	0	5	30	151	301	391	364	220	44	8	0	1514

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	259	338	575	767	1052	1210	1329	1302	1112	827	526	330	259	597	1172	1939	2991	4201	5530	6832	7944	8771	9297	9627
45	163	232	433	618	897	1060	1174	1147	962	672	388	211	163	395	828	1446	2343	3403	4577	5724	6686	7358	7746	7957
50	90	139	295	468	742	910	1019	992	812	518	265	128	90	229	524	992	1734	2644	3663	4655	5467	5985	6250	6378
55	44	72	180	327	587	760	864	837	662	374	165	72	44	116	296	623	1210	1970	2834	3671	4333	4707	4872	4944
60	15	31	94	203	432	610	709	682	512	239	85	32	15	46	140	343	775	1385	2094	2776	3288	3527	3612	3644
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	155	207	347	493	721	843	916	891	755	543	325	197	155	362	709	1202	1923	2766	3682	4573	5328	5871	6196	6393

(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/normals/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.

- 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/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