

Climatology of the United States

No. 20

1971-2000

Station: LA GRANGE, GA

COOP ID: 094949

Climate Division: GA 4

NWS Call Sign:

Elevation: 715 Feet Lat: 33°04N Lon: 85°02W

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	53.0	31.3	42.2	80+	1950	25	54.9	1974	-5	1985	21	29.6	1977	711	0	.0	.0	22.8	.4	15.5	.1
Feb	57.8	33.2	45.5	81+	1996	23	51.6	1990	6+	1996	5	35.4	1978	547	0	.0	.0	23.2	.2	11.7	.0
Mar	65.9	39.4	52.7	88+	1982	19	59.6	1997	13	1980	3	45.5	1971	392	10	.0	.0	30.0	.0	6.0	.0
Apr	73.4	46.4	59.9	93	1977	17	64.8	1999	26	1987	1	55.8	1983	173	19	.0	.2	30.0	.0	1.4	.0
May	80.3	55.5	67.9	98	1962	28	72.1+	1998	33	1963	2	63.7	1976	51	140	.0	2.6	31.0	.0	.0	.0
Jun	86.8	63.5	75.2	102	1977	11	79.8	1998	41	1972	1	71.5	1976	2	305	.3	12.8	30.0	.0	.0	.0
Jul	89.3	68.0	78.7	104+	1952	25	81.8	1986	50	1967	15	76.2	1972	0	424	.4	17.5	31.0	.0	.0	.0
Aug	87.9	67.4	77.7	101+	2000	19	81.7	1999	49	1968	29	75.4	1994	0	391	.3	13.9	31.0	.0	.0	.0
Sep	82.4	61.7	72.1	100	1954	19	75.8	1980	32	1967	30	69.2	1983	9	219	.0	4.2	30.0	.0	.0	.0
Oct	73.2	48.5	60.9	99	1954	5	66.7	1984	24	1962	26	55.3	1987	167	38	.0	.0	31.0	.0	.7	.0
Nov	64.4	40.0	52.2	85	1958	17	59.9	1985	5	1950	25	45.5	1976	389	5	.0	.0	29.0	.0	7.4	.0
Dec	55.3	33.7	44.5	80	1971	14	52.1	1971	-1	1962	13	37.1	2000	637	0	.0	.0	24.4	.1	13.3	.0
Ann	72.5	49.1	60.8	104+	Jul 1952	25	81.8	Jul 1986	-5	Jan 1985	21	29.6	Jan 1977	3078	1551	1.0	51.2	343.4	.7	56.0	.1

+ 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

049-A

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: LA GRANGE, GA

COOP ID: 094949

Climate Division: GA 4

NWS Call Sign:

Elevation: 715 Feet Lat: 33°04N

Lon: 85°02W

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	5.37	5.31	3.30	1972	11	9.61	1974	.81	1981	10.7	8.5	3.9	1.6	2.27	2.75	3.44	4.00	4.52	5.06	5.63	6.29	7.12	8.39	9.55
Feb	4.90	4.33	7.82	1961	25	8.73	1975	1.09	2000	7.8	6.6	3.6	2.1	1.65	2.12	2.80	3.37	3.92	4.49	5.11	5.84	6.77	8.21	9.54
Mar	6.22	5.61	6.13	1990	17	13.87	1980	1.73	1985	9.1	7.4	3.8	2.0	2.13	2.71	3.57	4.30	4.99	5.71	6.49	7.40	8.57	10.39	12.05
Apr	4.53	4.17	4.74	1957	5	11.76	1979	.66	1986	7.2	5.8	3.0	1.6	.97	1.38	2.05	2.65	3.26	3.90	4.63	5.50	6.65	8.49	10.22
May	3.54	3.09	3.85	1967	23	8.91	1991	.85	1977	8.0	6.1	2.5	1.1	.88	1.21	1.73	2.18	2.63	3.11	3.64	4.28	5.10	6.41	7.64
Jun	4.03	3.56	3.16	2001	2	8.46	1999	.67	2000	8.3	6.4	2.8	1.2	.72	1.08	1.66	2.21	2.78	3.38	4.08	4.91	6.03	7.83	9.55
Jul	5.38	4.60	4.63	1994	5	11.96	1994	1.01	1980	9.9	8.0	3.7	1.7	1.60	2.11	2.88	3.54	4.18	4.85	5.59	6.45	7.57	9.33	10.96
Aug	3.83	3.59	4.64	1957	19	9.14	1971	.69	1988	8.0	6.4	3.2	1.1	1.04	1.41	1.96	2.44	2.92	3.42	3.97	4.62	5.47	6.80	8.04
Sep	3.43	3.18	6.74	1956	25	8.93	1988	.05	1978	7.1	5.1	2.4	1.1	.50	.79	1.28	1.76	2.25	2.80	3.42	4.19	5.22	6.89	8.51
Oct	3.05	3.05	4.80	1989	1	9.77	1995	.18	1978	5.8	4.3	1.8	1.0	.44	.70	1.14	1.56	2.00	2.48	3.04	3.73	4.65	6.15	7.59
Nov	4.26	3.84	5.24	1948	27	13.47	1992	1.13	1981	7.5	6.0	3.1	1.5	1.29	1.70	2.30	2.82	3.32	3.85	4.42	5.10	5.98	7.34	8.61
Dec	4.84	4.77	4.67	1953	4	8.71	1989	1.29	1979	8.7	7.3	3.4	1.3	1.71	2.17	2.83	3.39	3.92	4.46	5.05	5.74	6.63	7.99	9.24
Ann	53.38	51.35	7.82	Feb 1961	25	13.87	Mar 1980	.05	Sep 1978	98.1	77.9	37.2	17.3	38.50	41.40	45.09	47.89	50.38	52.77	55.25	57.98	61.28	66.07	70.21

+ 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

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Station: LA GRANGE, GA

COOP ID: 094949

Climate Division: GA 4

NWS Call Sign:

Elevation: 715 Feet

Lat: 33°04N

Lon: 85°02W

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	.3	.0	0	0	2.0	1977	31	3.0	1977	0	0	0	0	0	.2	.2	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	1.1	1979	18	2.0	1979	2	1979	20	#	1979	.1	@	.0	.0	.0	.1	.0	.0	.0
Mar	.3	.0	#	0	5.0	1993	13	5.0	1993	4	1983	24	#+	1983	.1	.1	@	@	.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	#	1973	21	#	1973	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.7	.0	N/A	N/A	5.0	Mar 1993	13	5.0	Mar 1993	4	Mar 1983	24	#+	Mar 1983	.4	.3	@	@	.0	.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

Complete documentation available from:

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NWS Call Sign:

Elevation: 715 Feet

Lat: 33°04N

Lon: 85°02W

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	4/27	4/23	4/20	4/17	4/15	4/13	4/10	4/07	4/03
32	4/18	4/13	4/10	4/07	4/04	4/02	3/30	3/26	3/22
28	4/05	3/29	3/24	3/19	3/15	3/11	3/07	3/02	2/23
24	3/14	3/07	3/03	2/27	2/23	2/20	2/16	2/12	2/05
20	3/07	2/26	2/20	2/15	2/10	2/06	1/31	1/25	1/17
16	2/25	2/16	2/09	2/03	1/28	1/21	1/14	1/02	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	10/06	10/11	10/14	10/17	10/19	10/21	10/24	10/27	11/01
32	10/17	10/22	10/26	10/29	11/01	11/04	11/07	11/11	11/16
28	11/03	11/09	11/12	11/16	11/19	11/22	11/25	11/29	12/05
24	11/14	11/22	11/28	12/03	12/08	12/12	12/17	12/23	12/31
20	11/29	12/08	12/16	12/22	12/27	1/02	1/08	1/15	1/25
16	12/11	12/22	12/31	1/07	1/14	1/22	1/31	2/13	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	203	197	193	189	186	183	179	175	170
32	230	223	218	214	210	206	201	196	189
28	271	263	257	253	248	243	238	233	225
24	317	306	299	292	286	280	274	266	256
20	>365	343	330	321	314	308	301	293	283
16	>365	>365	>365	>365	351	339	328	318	305

* 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	711	547	392	173	51	2	0	0	9	167	389	637	3078
60	568	413	258	76	13	0	0	0	1	78	255	489	2151
57	483	335	192	39	5	0	0	0	0	44	187	402	1687
55	429	286	154	23	2	0	0	0	0	28	148	347	1417
50	308	179	79	4	0	0	0	0	0	7	72	226	875
32	46	8	0	0	0	0	0	0	0	0	0	15	69

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	360	385	641	836	1112	1293	1447	1414	1201	894	606	402	10591
55	30	18	82	169	401	603	734	701	511	209	64	20	3542
57	22	12	58	125	342	543	672	639	451	163	43	13	3083
60	14	6	31	72	257	453	579	546	362	104	21	7	2452
65	0	0	10	19	140	305	424	391	219	38	5	0	1551
70	0	0	0	2	60	168	270	237	102	8	0	0	847

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	208	278	502	673	927	1100	1237	1193	998	702	428	250	208	486	988	1661	2588	3688	4925	6118	7116	7818	8246	8496
45	117	176	355	523	772	950	1082	1038	848	548	295	149	117	293	648	1171	1943	2893	3975	5013	5861	6409	6704	6853
50	59	93	225	378	617	800	927	883	698	394	176	79	59	152	377	755	1372	2172	3099	3982	4680	5074	5250	5329
55	23	43	125	244	463	650	772	728	548	254	94	37	23	66	191	435	898	1548	2320	3048	3596	3850	3944	3981
60	1	16	59	132	310	500	617	573	398	134	40	11	1	17	76	208	518	1018	1635	2208	2606	2740	2780	2791
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	128	186	331	447	620	753	850	830	683	453	273	153	128	314	645	1092	1712	2465	3315	4145	4828	5281	5554	5707

(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.

- | | |
|---|---|
| <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