

Climatology of the United States

No. 20

1971-2000

Station: SURRENCY 2 WNW, GA

COOP ID: 098476

Climate Division: GA 9

NWS Call Sign:

Elevation: 200 Feet Lat: 31°44N Lon: 82°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	61.8	38.2	50.0	83	1957	31	63.1	1974	1	1985	21	39.7	1977	482	3	.0	.0	27.3	.1	10.9	.0
Feb	66.0	39.9	53.0	88	1980	23	59.4	1990	12	1996	5	44.0	1978	343	6	.0	.0	26.7	.1	7.3	.0
Mar	73.2	45.9	59.6	90+	1974	10	65.1	1997	17	1980	3	53.7	1996	201	32	.0	@	30.7	.0	2.7	.0
Apr	79.5	50.7	65.1	96	1986	28	70.7	1999	29+	2001	19	60.3	1993	73	77	.0	1.2	30.0	.0	.4	.0
May	85.7	58.7	72.2	98+	1967	30	78.4	1991	39+	1997	5	69.1	1992	6	229	.0	6.4	31.0	.0	.0	.0
Jun	90.2	65.7	78.0	106	1959	29	83.3	1998	48+	1984	1	74.8	1972	0	389	.8	17.2	30.0	.0	.0	.0
Jul	92.4	69.3	80.9	105+	2000	21	84.1	1986	55	1967	16	78.2	1974	0	492	1.0	23.9	31.0	.0	.0	.0
Aug	90.9	68.5	79.7	105	1963	7	82.6	1987	56+	1992	29	76.4	1992	0	455	.3	21.3	31.0	.0	.0	.0
Sep	87.2	64.8	76.0	100	1972	17	78.4	1980	38	1967	30	73.4	1984	0	330	@	10.7	30.0	.0	.0	.0
Oct	79.7	53.9	66.8	94+	1990	5	72.1	1985	24	1962	26	60.2	1987	71	126	.0	1.1	31.0	.0	.4	.0
Nov	71.4	46.0	58.7	88	1961	1	67.3	1985	19+	1991	26	51.4	1976	227	37	.0	.0	29.9	.0	4.5	.0
Dec	63.6	39.9	51.8	83+	1972	13	60.5	1971	3	1962	13	44.4	1989	421	10	.0	.0	28.5	.1	9.3	.0
Ann	78.5	53.5	66.0	106	Jun 1959	29	84.1	Jul 1986	1	Jan 1985	21	39.7	Jan 1977	1824	2186	2.1	81.8	357.1	.3	35.5	.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: 1956-2001

(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: SURRENCY 2 WNW, GA

COOP ID: 098476

Climate Division: GA 9

NWS Call Sign:

Elevation: 200 Feet Lat: 31°44N

Lon: 82°14W

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	4.44	4.23	3.26	1984	27	12.30	1991	.79	1989	9.9	7.2	3.1	1.2	1.19	1.61	2.25	2.81	3.37	3.95	4.59	5.36	6.35	7.92	9.38
Feb	3.69	3.49	3.00	1986	6	7.18	1995	.11	1991	7.9	5.7	2.8	1.1	.81	1.16	1.70	2.19	2.67	3.19	3.78	4.48	5.40	6.87	8.26
Mar	4.14	3.96	4.00	1980	13	9.89	1980	1.26	1999	8.4	6.3	3.0	1.2	1.39	1.78	2.35	2.84	3.31	3.79	4.32	4.94	5.73	6.96	8.09
Apr	2.78	2.58	3.20	1981	1	6.88	1982	.25	1990	6.4	4.8	2.0	.8	.36	.59	.98	1.37	1.78	2.23	2.75	3.40	4.28	5.71	7.10
May	3.00	2.76	3.30	1974	12	8.90	1976	.50	1986	7.8	5.2	1.8	.9	.47	.73	1.17	1.58	2.01	2.47	3.01	3.67	4.54	5.97	7.33
Jun	4.74	4.72	4.22	1999	30	9.61	1999	.67	1998	10.4	7.9	3.3	1.3	1.48	1.93	2.60	3.17	3.73	4.30	4.93	5.67	6.63	8.11	9.49
Jul	5.36	5.23	4.78	1959	3	11.55	1991	2.27	1995	11.1	8.1	4.0	1.7	2.35	2.83	3.50	4.05	4.55	5.07	5.62	6.25	7.05	8.26	9.35
Aug	6.07	5.46	8.03	1995	26	15.70	1995	1.71	2000	11.5	8.1	3.7	1.7	2.10	2.67	3.51	4.22	4.89	5.58	6.34	7.22	8.36	10.11	11.72
Sep	3.57	3.18	4.43	1998	30	10.44	1998	.19	1985	8.7	5.7	2.5	1.0	.37	.63	1.12	1.62	2.16	2.76	3.47	4.36	5.56	7.57	9.53
Oct	2.78	2.22	5.03	1976	17	8.60	1990	.03	1974	6.1	4.1	1.8	.9	.15	.31	.64	1.02	1.45	1.95	2.57	3.36	4.46	6.36	8.24
Nov	2.45	1.93	3.55	1986	17	6.73	1986	.14	1991	7.0	4.4	2.0	.5	.28	.47	.82	1.16	1.52	1.93	2.40	2.99	3.79	5.10	6.38
Dec	3.64	3.51	6.45	1964	4	8.53	1997	.36	1984	8.3	5.2	2.6	1.2	.92	1.27	1.80	2.26	2.73	3.21	3.76	4.40	5.24	6.57	7.82
Ann	46.66	46.43	8.03	Aug 1995	26	15.70	Aug 1995	.03	Oct 1974	103.5	72.7	32.6	13.5	35.55	37.76	40.56	42.66	44.51	46.30	48.12	50.13	52.55	56.03	59.02

+ 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: 1956-2001

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

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NWS Call Sign:

Elevation: 200 Feet

Lat: 31°44N

Lon: 82°14W

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	.1	.0	#	0	1.2	1977	31	1.7	1977	#	2000	28	#	2000	.1	@	.0	.0	.0	.0	.0	.0	.0
Feb	.2	.0	0	0	5.0	1973	10	5.0	1973	0	0	0	0	0	.1	@	@	@	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1986	1	#	1986	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	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	0	.3	1989	23	.3	1989	0	0	0	0	0	@	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.3	.0	N/A	N/A	5.0	Feb 1973	10	5.0	Feb 1973	#	Jan 2000	28	#	Jan 2000	.2	@	@	@	.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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Elevation: 200 Feet

Lat: 31° 44N

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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	4/24	4/18	4/14	4/11	4/07	4/04	4/01	3/28	3/22
32	4/09	4/03	3/29	3/25	3/21	3/18	3/14	3/09	3/03
28	3/20	3/13	3/08	3/04	2/28	2/24	2/20	2/15	2/08
24	3/06	2/27	2/22	2/18	2/14	2/10	2/05	1/31	1/22
20	2/24	2/15	2/08	2/02	1/27	1/20	1/12	12/28	0/00
16	1/25	1/13	12/27	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	10/09	10/15	10/19	10/23	10/27	10/30	11/03	11/07	11/14
32	10/18	10/25	10/30	11/03	11/08	11/12	11/16	11/21	11/29
28	11/06	11/14	11/19	11/24	11/28	12/03	12/07	12/13	12/21
24	11/10	11/22	12/01	12/09	12/16	12/24	1/01	1/10	1/25
20	12/08	12/18	12/26	1/02	1/09	1/16	1/25	2/11	0/00
16	1/01	1/15	2/03	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	226	218	212	206	201	197	191	185	177
32	257	248	242	236	231	225	220	213	204
28	300	291	284	278	273	267	261	254	245
24	>365	333	319	310	302	295	288	279	268
20	>365	>365	>365	>365	348	333	323	313	301
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	482	343	201	73	6	0	0	0	0	71	227	421	1824
60	350	218	105	21	0	0	0	0	0	26	131	285	1136
57	281	157	62	8	0	0	0	0	0	12	87	216	823
55	241	123	41	4	0	0	0	0	0	7	62	176	654
50	156	56	11	0	0	0	0	0	0	1	23	96	343
32	11	0	0	0	0	0	0	0	0	0	0	1	12

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	570	587	854	994	1246	1379	1515	1478	1319	1078	800	613	12433
55	88	66	182	307	533	689	802	765	629	372	172	76	4681
57	66	44	141	252	471	629	740	703	569	315	137	53	4120
60	42	22	91	175	378	539	647	610	479	236	91	29	3339
65	3	6	32	77	229	389	492	455	330	126	37	10	2186
70	2	0	8	20	106	242	337	300	185	51	12	0	1263

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	343	394	619	765	1008	1152	1273	1241	1087	838	566	388	343	737	1356	2121	3129	4281	5554	6795	7882	8720	9286	9674
45	218	271	467	615	853	1002	1118	1086	937	683	422	259	218	489	956	1571	2424	3426	4544	5630	6567	7250	7672	7931
50	128	162	321	466	698	852	963	931	787	529	293	157	128	290	611	1077	1775	2627	3590	4521	5308	5837	6130	6287
55	65	85	198	318	543	702	808	776	637	378	182	84	65	150	348	666	1209	1911	2719	3495	4132	4510	4692	4776
60	27	37	101	188	389	552	653	621	487	237	93	35	27	64	165	353	742	1294	1947	2568	3055	3292	3385	3420
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	216	262	409	502	673	779	860	849	751	562	374	246	216	478	887	1389	2062	2841	3701	4550	5301	5863	6237	6483

(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