

Climatology of the United States

No. 20

1971-2000

Station: ASHBURN 3 ENE, GA

COOP ID: 090406

Climate Division: GA 8

NWS Call Sign:

Elevation: 435 Feet

Lat: 31° 43N

Lon: 83° 37W

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	58.8	36.4	47.6	80	2001	20	62.4	1974	1	1985	21	38.9	1977	554	0	.0	.0	24.2	.4	10.7	.0
Feb	62.8	39.5	51.2	87	1977	27	58.2	1990	10	1967	26	42.4	1978	390	3	.0	.0	24.1	.2	6.8	.0
Mar	70.6	46.6	58.6	87+	1986	15	64.3	1997	16	1980	3	52.9	1971	228	29	.0	.0	30.0	@	1.6	.0
Apr	77.6	52.8	65.2	94	1986	28	69.5	1999	31	1992	3	61.0	1983	76	82	.0	.6	30.0	.0	.1	.0
May	84.1	61.1	72.6	97+	1962	30	76.8	2000	43	1960	13	69.1	1976	8	243	.0	4.6	31.0	.0	.0	.0
Jun	89.6	67.7	78.7	102	1985	6	82.8	1998	51	1983	1	74.7	1997	0	410	.1	13.6	30.0	.0	.0	.0
Jul	91.4	70.5	81.0	102	1986	21	84.3	1986	58+	1967	16	77.4	1984	0	494	.6	21.1	31.0	.0	.0	.0
Aug	90.7	69.2	80.0	102	2000	19	83.3	1987	57+	1986	30	78.0	1981	0	464	.3	18.2	31.0	.0	.0	.0
Sep	86.7	64.8	75.8	99+	1980	5	78.5	1978	39	1967	30	71.7	1983	1	324	.0	8.5	30.0	.0	.0	.0
Oct	78.6	53.6	66.1	97	1986	6	71.3	1984	31+	2001	29	60.3	1987	74	109	.0	.7	31.0	.0	.1	.0
Nov	70.0	46.1	58.1	88	1961	1	65.7	1985	17	1970	25	50.8	1976	240	31	.0	.0	29.7	.0	2.2	.0
Dec	61.6	39.0	50.3	81+	1978	5	57.6	1971	8	1983	25	42.4	1989	465	8	.0	.0	26.5	.1	7.9	.0
Ann	76.9	53.9	65.4	102+	Aug 2000	19	84.3	Jul 1986	1	Jan 1985	21	38.9	Jan 1977	2036	2197	1.0	67.3	348.5	.7	29.4	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1957-2001

(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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NWS Call Sign:

Elevation: 435 Feet

Lat: 31°43N

Lon: 83°37W

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	5.40	4.50	4.63	1993	12	16.32	1987	1.19	1981	9.0	7.3	4.0	1.9	1.73	2.24	3.00	3.64	4.27	4.91	5.62	6.45	7.52	9.18	10.72
Feb	4.49	3.74	4.45	1995	12	10.05	1979	.94	1991	7.7	6.1	3.0	1.5	1.41	1.84	2.47	3.01	3.53	4.08	4.67	5.37	6.28	7.68	8.99
Mar	5.07	4.70	3.48	2000	30	9.18	2000	.83	1979	8.2	6.9	3.6	2.0	1.64	2.12	2.83	3.44	4.02	4.62	5.28	6.05	7.05	8.59	10.02
Apr	3.26	2.72	5.49	1996	30	9.11	1973	.41	1972	5.8	4.9	2.1	1.0	.45	.72	1.19	1.64	2.11	2.64	3.24	3.98	4.98	6.62	8.19
May	3.38	3.09	3.50	1984	4	8.42	1976	.83	2000	6.7	5.1	2.2	1.0	.88	1.20	1.69	2.12	2.55	3.00	3.50	4.09	4.86	6.07	7.21
Jun	4.80	4.42	3.10	1980	21	12.30	1987	1.39	1996	9.4	7.3	3.3	1.4	1.64	2.09	2.75	3.31	3.85	4.40	5.01	5.71	6.61	8.01	9.30
Jul	4.61	4.42	3.35	1999	7	10.19	1984	.62	1983	9.9	8.2	3.6	1.4	1.55	1.98	2.62	3.17	3.69	4.22	4.81	5.49	6.37	7.74	8.99
Aug	4.23	3.83	4.45	1994	16	9.46	1971	.45	1989	8.5	6.8	2.6	1.0	1.43	1.83	2.41	2.91	3.39	3.88	4.41	5.04	5.85	7.09	8.24
Sep	3.66	2.62	4.70	1998	3	10.55	1998	.20	1978	6.9	5.3	2.3	1.1	.41	.68	1.19	1.70	2.25	2.86	3.58	4.47	5.69	7.70	9.65
Oct	2.41	1.68	5.25	1994	3	8.81	1994	.00+	1987	4.5	3.5	1.3	.7	.00	.00	.35	.72	1.14	1.63	2.22	2.97	4.01	5.79	7.56
Nov	3.61	3.31	4.55	1978	30	9.57	1997	.34	1991	6.5	5.0	2.0	1.0	.51	.80	1.32	1.82	2.35	2.93	3.59	4.41	5.52	7.32	9.06
Dec	3.54	3.33	3.30	1989	31	8.31	1997	.34	1980	7.7	5.7	2.6	1.2	.74	1.06	1.58	2.05	2.53	3.04	3.61	4.30	5.22	6.67	8.06
Ann	48.46	48.33	5.49	Apr 1996	30	16.32	Jan 1987	.00+	Oct 1987	90.8	72.1	32.6	15.2	36.03	38.48	41.59	43.94	46.02	48.01	50.07	52.33	55.06	59.01	62.40

+ 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: 1957-2001

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

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Lat: 31°43N

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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	.1	.0	0	0	2.0	1977	31	2.0	1977	0	0	0	0	0	@	@	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	3.5	1973	10	3.5	1973	4	1973	10	#	1973	@	@	@	.0	.0	.1	@	.0	.0
Mar	.0	.0	0	0	.1	1980	2	.1	1980	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	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	3.5	Feb 1973	10	3.5	Feb 1973	4	Feb 1973	10	#	Feb 1973	@	@	@	.0	.0	.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	4/07	3/31	3/27	3/23	3/20	3/16	3/13	3/08	3/02
32	3/24	3/18	3/13	3/08	3/04	2/28	2/24	2/19	2/12
28	3/09	3/02	2/26	2/22	2/18	2/14	2/10	2/06	1/30
24	3/01	2/22	2/16	2/11	2/06	2/01	1/26	1/18	0/00
20	2/22	2/12	2/04	1/29	1/22	1/14	1/02	0/00	0/00
16	2/04	1/21	1/08	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	10/22	10/28	11/01	11/04	11/07	11/10	11/14	11/18	11/23
32	11/02	11/09	11/14	11/18	11/22	11/26	12/01	12/06	12/13
28	11/15	11/25	12/02	12/08	12/13	12/19	12/25	1/01	1/10
24	12/03	12/14	12/22	12/29	1/04	1/11	1/19	1/29	0/00
20	12/18	12/27	1/03	1/10	1/17	1/24	2/05	0/00	0/00
16	12/31	1/16	1/31	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	258	249	242	237	232	226	221	214	205
32	289	280	273	268	262	257	251	245	236
28	324	314	307	301	296	291	285	279	270
24	>365	>365	>365	337	327	319	312	304	294
20	>365	>365	>365	>365	>365	365	344	331	316
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	554	390	228	76	8	0	0	0	1	74	240	465	2036
60	421	262	126	23	1	0	0	0	0	26	141	326	1326
57	347	195	80	9	0	0	0	0	0	11	95	252	989
55	303	156	55	4	0	0	0	0	0	6	69	209	802
50	211	81	18	0	0	0	0	0	0	1	26	123	460
32	23	1	0	0	0	0	0	0	0	0	0	4	28

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	507	538	825	996	1258	1400	1517	1487	1313	1058	781	570	12250
55	74	49	167	310	545	710	804	774	623	351	160	63	4630
57	56	32	129	255	483	650	742	712	563	294	126	43	4085
60	37	15	83	179	391	560	649	619	473	215	82	24	3327
65	0	3	29	82	243	410	494	464	324	109	31	8	2197
70	0	0	8	24	122	262	339	309	183	40	10	0	1297

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	275	337	581	752	1016	1151	1277	1248	1076	817	545	340	275	612	1193	1945	2961	4112	5389	6637	7713	8530	9075	9415
45	168	222	430	602	861	1001	1122	1093	926	662	400	219	168	390	820	1422	2283	3284	4406	5499	6425	7087	7487	7706
50	87	125	293	456	706	851	967	938	776	507	268	123	87	212	505	961	1667	2518	3485	4423	5199	5706	5974	6097
55	34	58	173	314	551	701	812	783	626	354	157	60	34	92	265	579	1130	1831	2643	3426	4052	4406	4563	4623
60	10	19	86	187	398	551	657	628	476	220	76	28	10	29	115	302	700	1251	1908	2536	3012	3232	3308	3336
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	162	202	351	477	685	799	886	864	747	531	336	204	162	364	715	1192	1877	2676	3562	4426	5173	5704	6040	6244

(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