U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUTTGART 9 ESE, AR **COOP ID: 036920**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 34˚28N** **Lon: 91˚25W**

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	48.6	30.6	39.6	81	1909	25	46.3	1990	-5	1962	12	29.3	1977	787	0	.0	.0	14.3	3.3	18.8	.2
Feb	54.3	34.7	44.5	81	1911	1	53.0	1976	-2	1910	18	32.9	1978	577	2	.0	.0	18.0	1.8	11.5	.0
Mar	63.0	43.0	53.0	89	1991	25	58.4	1974	11	1943	3	47.8	1996	379	7	.0	.0	27.3	.1	3.8	.0
Apr	72.2	51.0	61.6	94	1987	20	68.2	1981	28+	1957	9	55.3	1983	149	47	.0	.1	29.5	.0	.4	.0
May	80.6	61.0	70.8	98+	1911	28	76.1	2000	33	1903	1	64.6	1976	34	214	.0	2.2	31.0	.0	.0	.0
Jun	88.6	69.0	78.8	104	1911	16	83.2	1998	44	1894	1	74.3	1974	0	414	.1	13.1	30.0	.0	.0	.0
Jul	92.6	72.1	82.4	109	1901	12	87.0	1980	52	1944	22	79.3	1989	0	538	1.3	21.9	31.0	.0	.0	.0
Aug	91.8	69.8	80.8	107+	1901	3	84.9	1980	50	1986	29	76.4	1992	0	489	1.1	19.0	31.0	.0	.0	.0
Sep	86.0	62.5	74.3	105+	1909	10	79.2	1998	35+	1899	27	68.3	1974	8	285	.2	8.7	30.0	.0	.0	.0
Oct	76.4	50.7	63.6	97	1909	3	69.8	1971	24+	1910	29	57.4	1976	118	73	.0	.5	30.9	.0	.4	.0
Nov	63.1	41.8	52.5	86	1955	14	57.3	1973	10	1903	19	44.9	1976	380	4	.0	.0	25.7	.1	4.9	.0
Dec	52.8	33.9	43.4	82	1906	6	52.6	1984	-6	1963	24	32.6	1983	671	0	.0	.0	18.4	1.8	14.5	.1
Ann	72.5	51.7	62.1	109	Jul 1901	12	87.0	Jul 1980	-6	Dec 1963	24	29.3	Jan 1977	3103	2073	2.7	65.5	317.1	7.1	54.3	.3

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1890-2001

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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUTTGART 9 ESE, AR **COOP ID: 036920**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 34˚28N** **Lon: 91˚25W**

Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	3.85	3.59	4.01	1899	13	7.55	1999	.29	1986
Feb	3.56	2.94	4.75	1966	10	9.59	1989	.82	1972
Mar	4.90	3.98	5.50	1894	19	11.08	1980	1.74	1986
Apr	5.29	4.11	6.25	1997	5	13.56	1991	1.09	1987
May	5.12	4.62	4.92	1989	9	11.21	1979	.66	1977
Jun	3.99	4.47	4.07	1939	29	7.55	1974	.70	1988
Jul	3.24	3.16	5.16	1951	3	9.35	1996	.00	1993
Aug	2.19	2.16	5.20	1970	10	5.19	1974	.20	1980
Sep	2.86	2.37	6.95	1959	27	7.25	1978	.48	1995
Oct	3.83	3.29	4.70	2001	11	15.33	1984	.47	1971
Nov	5.06	4.54	5.02	1972	7	12.05	1987	1.46	1976
Dec	4.97	4.33	4.64	1987	25	11.50	1987	.96	1981
Ann	48.86	47.31	6.95	Sep 1959	27	15.33	Oct 1984	.00	Jul 1993

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.4	6.4	2.6	1.0
Feb	8.2	5.4	2.5	1.2
Mar	10.4	7.2	3.4	1.4
Apr	8.7	6.4	3.4	1.8
May	10.4	7.2	3.5	1.5
Jun	8.3	6.0	2.7	1.3
Jul	6.9	4.6	2.0	1.0
Aug	5.4	3.9	1.4	.6
Sep	7.3	4.5	1.7	.8
Oct	6.8	4.7	2.4	1.4
Nov	9.5	6.5	3.5	1.4
Dec	9.1	6.8	3.4	1.6
Ann	101.4	69.6	32.5	15.0

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.84	1.19	1.76	2.27	2.78	3.33	3.94	4.67	5.64	7.18	8.64
Feb	.91	1.24	1.76	2.22	2.67	3.14	3.67	4.30	5.12	6.41	7.62
Mar	1.67	2.13	2.81	3.38	3.93	4.50	5.11	5.83	6.76	8.19	9.50
Apr	1.10	1.59	2.36	3.07	3.78	4.54	5.40	6.43	7.79	9.97	12.03
May	1.43	1.91	2.65	3.29	3.92	4.57	5.30	6.16	7.27	9.02	10.65
Jun	1.01	1.38	1.96	2.48	2.99	3.52	4.12	4.83	5.75	7.22	8.59
Jul	.15	.43	.92	1.39	1.90	2.47	3.14	3.98	5.13	7.03	8.88
Aug	.30	.48	.80	1.10	1.42	1.77	2.18	2.68	3.35	4.45	5.51
Sep	.55	.80	1.22	1.61	2.00	2.42	2.90	3.48	4.25	5.49	6.66
Oct	.79	1.14	1.70	2.22	2.73	3.29	3.91	4.66	5.65	7.24	8.74
Nov	1.45	1.93	2.65	3.28	3.90	4.54	5.25	6.08	7.17	8.87	10.45
Dec	1.41	1.88	2.60	3.22	3.82	4.45	5.15	5.97	7.04	8.72	10.28
Ann	34.39	37.18	40.76	43.48	45.89	48.23	50.65	53.33	56.57	61.29	65.37

\+ 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: 1890-2001
(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Services

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: STUTTGART 9 ESE, AR **COOP ID: 036920**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 34°28N** **Lon: 91°25W**

Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	2.0	.0	#	0	9.0	2000	28	9.0	2000	7	1982	13	1	1982	.3	.3	.2	.2	.0	.2	.2	.1	.0
Feb	.5	.3	#	0	5.5	1979	7	5.5	1979	7	1985	2	4	1985	.5	.1	.1	.1	.0	.1	.0	.0	.0
Mar	.5	.0	#	0	5.0	1975	14	5.0	1975	5	1975	14	#+	1975	.1	.1	.1	.1	.0	.1	@	@	.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	.1	.0	0	0	.8	1971	23	.8	1971	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Dec	#	.0	#	0	#	1990	23	#+	1990	#	1990	23	#	1990	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	3.1	.3	N/A	N/A	9.0	Jan 2000	28	9.0	Jan 2000	7+	Feb 1985	2	4	Feb 1985	1.0	.5	.4	.4	.0	.4	.2	.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

Complete documentation available from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUTTGART 9 ESE, AR **COOP ID: 036920**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 34˚28N** **Lon: 91˚25W**

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	4/20	4/13	4/09	4/05	4/01	3/28	3/25	3/20	3/14
32	4/09	4/02	3/28	3/24	3/20	3/16	3/11	3/07	2/28
28	3/22	3/15	3/10	3/05	3/01	2/24	2/20	2/15	2/07
24	3/11	3/03	2/25	2/20	2/15	2/10	2/05	1/30	1/22
20	3/01	2/20	2/14	2/08	2/03	1/29	1/23	1/15	1/01
16	2/16	2/08	2/01	1/27	1/21	1/15	1/06	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	10/12	10/17	10/21	10/24	10/27	10/30	11/02	11/05	11/10
32	10/23	10/29	11/02	11/06	11/09	11/12	11/16	11/20	11/26
28	11/08	11/14	11/18	11/22	11/25	11/29	12/02	12/06	12/12
24	11/12	11/22	11/28	12/04	12/10	12/15	12/21	12/28	1/06
20	12/06	12/15	12/22	12/27	1/02	1/07	1/13	1/21	2/05
16	12/16	12/23	12/29	1/03	1/08	1/14	1/22	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	228	221	216	212	208	204	200	195	188
32	258	250	244	238	234	229	223	217	209
28	296	287	280	274	269	263	258	251	241
24	332	318	309	302	295	288	281	272	261
20	>365	>365	353	340	330	322	314	306	294
16	>365	>365	>365	>365	>365	350	337	326	312

***** 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: STUTTGART 9 ESE, AR **COOP ID: 036920**

Climate Division: AR 6 **NWS Call Sign:** **Elevation: 198 Feet** **Lat: 34˚28N** **Lon: 91˚25W**

Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	787	577	379	149	34	0	0	0	8	118	380	671	3103
60	636	447	243	67	9	0	0	0	1	49	248	526	2226
57	551	371	176	35	4	0	0	0	0	25	181	441	1784
55	493	324	138	21	1	0	0	0	0	14	143	387	1521
50	359	221	66	4	0	0	0	0	0	3	70	267	990
32	57	22	0	0	0	0	0	0	0	0	0	29	108

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	293	371	651	889	1202	1404	1561	1512	1267	978	614	381	11123
55	16	29	76	219	491	714	848	799	577	279	67	26	4141
57	11	20	51	173	431	654	786	737	517	228	45	18	3671
60	4	12	26	115	344	564	693	644	428	159	22	10	3021
65	0	2	7	47	214	414	538	489	285	73	4	0	2073
70	0	0	0	13	113	268	383	335	162	25	0	0	1299

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	123	217	422	653	961	1162	1305	1256	1020	719	376	178	123	340	762	1415	2376	3538	4843	6099	7119	7838	8214	8392
45	64	129	291	505	806	1012	1150	1101	870	565	249	95	64	193	484	989	1795	2807	3957	5058	5928	6493	6742	6837
50	28	66	181	363	651	862	995	946	720	413	150	46	28	94	275	638	1289	2151	3146	4092	4812	5225	5375	5421
55	10	25	93	236	496	712	840	791	571	272	76	14	10	35	128	364	860	1572	2412	3203	3774	4046	4122	4136
60	0	4	38	129	346	562	685	636	423	162	36	2	0	4	42	171	517	1079	1764	2400	2823	2985	3021	3023
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	71	124	240	398	641	814	902	862	686	456	213	97	71	195	435	833	1474	2288	3190	4052	4738	5194	5407	5504

(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.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/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 are 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/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/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