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: GILBERT, AR **COOP ID: 032794**

Climate Division: AR 2 **NWS Call Sign:** **Elevation: 620 Feet** **Lat: 35˚59N** **Lon: 92˚43W**

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	50.8	23.7	37.3	82	1943	25	45.9	1990	-20	1942	8	26.3	1977	861	0	.0	.0	15.9	2.9	24.4	1.0
Feb	57.0	27.6	42.3	88+	1962	12	50.2	1976	-23+	1951	2	31.3	1978	636	0	.0	.0	19.2	1.4	19.3	.3
Mar	65.9	35.9	50.9	92+	1967	12	55.7	1973	-2	1967	7	43.6	1996	438	2	.0	.1	27.8	.1	13.5	.0
Apr	75.1	43.8	59.5	94+	1960	6	65.3	1981	18+	1987	4	54.4	1997	188	23	.0	.4	29.7	.0	5.0	.0
May	81.5	52.8	67.2	95+	1977	30	72.9	1991	27	1992	7	62.9	1997	66	132	.0	1.8	31.0	.0	.3	.0
Jun	88.8	60.8	74.8	108	1936	21	79.2	1994	40	1969	3	69.7	1974	5	298	.1	11.6	30.0	.0	.0	.0
Jul	94.4	64.6	79.5	114	1954	14	83.2	1980	46	1936	31	76.5	1989	0	451	3.1	22.8	31.0	.0	.0	.0
Aug	94.1	62.7	78.4	113+	1936	10	82.9	2000	41	1986	29	72.1	1992	2	417	3.9	21.3	31.0	.0	.0	.0
Sep	86.4	56.1	71.3	109	2000	3	75.7	1978	28	1989	24	66.6	1974	25	213	.9	9.4	30.0	.0	.2	.0
Oct	76.7	43.8	60.3	97+	1938	1	66.0	1971	15+	1952	21	53.4	1976	187	40	.0	1.2	30.8	.0	5.2	.0
Nov	63.1	34.6	48.9	87+	1950	1	54.2	1999	0	1976	29	41.7	1976	485	2	.0	.0	25.3	@	13.9	@
Dec	53.2	26.7	40.0	82+	1955	24	48.1	1984	-14	1989	23	27.2	1983	777	0	.0	.0	18.7	1.5	21.6	.5
Ann	73.9	44.4	59.2	114	Jul 1954	14	83.2	Jul 1980	-23+	Feb 1951	2	26.3	Jan 1977	3670	1578	8.0	68.6	320.4	5.9	103.4	1.8

\+ 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: 1930-2001

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

Issue Date: February 2004

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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	2.67	2.38	3.83	1949	24	6.65	1982	.48	1986
Feb	3.00	2.33	4.01	1966	10	7.86	1989	.57	1996
Mar	4.10	3.26	3.60	1985	30	8.74	1998	1.13	1971
Apr	4.05	3.89	5.50	1970	19	9.69	1973	.75	1987
May	5.19	5.46	5.08	1944	25	11.97	1990	1.10	1994
Jun	4.16	3.62	4.00	1945	10	10.12	1999	1.32	1988
Jul	2.62	2.88	2.60	1955	18	5.02	1989	.35	1980
Aug	2.81	2.56	3.87	1931	4	7.27	1986	.02	2000
Sep	3.73	3.37	4.72+	1987	15	11.10	1996	.71	1981
Oct	3.39	3.20	4.38	1991	29	8.54	1991	.69	1989
Nov	5.18	4.27	6.32	1985	19	15.93	1994	.47	1989
Dec	3.88	3.45	5.60	1982	3	11.65	1982	.51	1989
Ann	44.78	43.80	6.32	Nov 1985	19	15.93	Nov 1994	.02	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	7.4	5.5	1.6	.6
Feb	6.9	5.0	2.2	.7
Mar	8.7	7.3	2.9	1.0
Apr	8.3	6.6	3.0	1.3
May	9.9	7.8	3.7	1.8
Jun	8.6	6.5	3.1	1.3
Jul	6.6	4.9	1.9	.6
Aug	6.3	4.8	1.7	.9
Sep	7.4	5.7	2.4	1.1
Oct	6.0	4.8	2.1	1.1
Nov	7.7	6.1	3.3	1.7
Dec	7.4	5.7	2.7	1.0
Ann	91.2	70.7	30.6	13.1

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	.58	.83	1.22	1.57	1.93	2.31	2.74	3.25	3.92	4.99	6.01
Feb	.61	.88	1.32	1.72	2.13	2.56	3.06	3.65	4.43	5.68	6.86
Mar	1.22	1.61	2.20	2.70	3.19	3.70	4.26	4.92	5.78	7.11	8.35
Apr	1.03	1.42	2.01	2.53	3.04	3.58	4.18	4.89	5.82	7.30	8.67
May	1.65	2.14	2.87	3.49	4.10	4.72	5.40	6.21	7.24	8.85	10.34
Jun	1.31	1.70	2.29	2.79	3.28	3.78	4.33	4.98	5.81	7.11	8.31
Jul	.63	.87	1.26	1.60	1.94	2.30	2.70	3.18	3.81	4.80	5.74
Aug	.33	.55	.94	1.33	1.75	2.22	2.76	3.43	4.34	5.84	7.30
Sep	.86	1.21	1.76	2.25	2.73	3.25	3.83	4.52	5.43	6.87	8.23
Oct	.94	1.27	1.75	2.18	2.60	3.03	3.52	4.09	4.83	5.99	7.08
Nov	.89	1.34	2.10	2.81	3.54	4.33	5.23	6.32	7.78	10.13	12.38
Dec	.73	1.07	1.64	2.17	2.70	3.28	3.94	4.73	5.79	7.48	9.10
Ann	32.57	34.95	38.00	40.30	42.35	44.32	46.35	48.59	51.30	55.22	58.60

\+ 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

Complete documentation available from:
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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	3.0	.5	#	0
Feb	1.8	.0	#	0
Mar	1.3	.0	#	0
Apr	.1	.0	0	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.0	.0	0	0
Nov	1.2	.0	#	0
Dec	1.3	.0	#	0
Ann	8.7	.5	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	9.0	1988	7	12.0	1977	9	1977	11	4	1977
Feb	6.0	1980	8	7.5	1985	8	1993	16	2	1979
Mar	9.0	1994	8	9.0	1994	5	1975	14	#+	1975
Apr	2.0	1980	14	2.0	1980	0	0	0	0	0
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	.0	0	0	.0	0	0	0	0	0	0
Nov	6.0	1971	23	8.5	1976	6+	1976	14	1	1976
Dec	5.0	1975	26	8.0	1975	5	1975	26	1	1983
Ann	9.0+	Mar 1994	8	12.0	Jan 1977	9	Jan 1977	11	4	Jan 1977

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.1	1.0	.4	.1	.0
Feb	.7	.6	.3	@	.0
Mar	.4	.3	.2	.1	.0
Apr	@	@	.0	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	.0	.0	.0	.0	.0
Nov	.2	.2	.2	.1	.0
Dec	.5	.4	.2	@	.0
Ann	2.9	2.5	1.3	.3	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.0	1.5	.6	.0
Feb	.3	.1	.0	.0
Mar	.2	.1	.1	.0
Apr	.0	.0	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	.0	.0	.0	.0
Nov	.4	.3	.1	.0
Dec	.2	.1	@	.0
Ann	3.1	2.1	.8	.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	5/14	5/09	5/06	5/03	4/30	4/28	4/25	4/21	4/16
32	5/03	4/29	4/26	4/23	4/20	4/18	4/15	4/12	4/07
28	4/23	4/18	4/15	4/12	4/10	4/07	4/04	4/01	3/28
24	4/15	4/09	4/05	4/02	3/30	3/27	3/23	3/19	3/14
20	4/04	3/29	3/25	3/21	3/18	3/14	3/11	3/06	3/01
16	3/17	3/10	3/05	2/28	2/24	2/19	2/15	2/09	2/02

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	9/20	9/24	9/27	9/30	10/03	10/05	10/08	10/11	10/16
32	9/29	10/03	10/06	10/09	10/12	10/14	10/17	10/20	10/25
28	10/07	10/13	10/18	10/22	10/25	10/29	11/02	11/06	11/12
24	10/19	10/25	10/29	11/02	11/05	11/08	11/11	11/15	11/21
20	10/27	11/02	11/07	11/11	11/15	11/19	11/23	11/27	12/04
16	11/01	11/10	11/17	11/23	11/28	12/04	12/10	12/16	12/26

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	173	167	162	158	155	151	147	143	136
32	194	187	182	178	174	169	165	160	153
28	222	214	208	203	198	193	188	182	174
24	244	236	229	224	219	214	209	203	194
20	270	260	253	247	242	236	230	223	213
16	309	298	290	283	277	271	264	256	245

***** 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)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	861	636	438	188	66	5	0	2	25	187	485	777	3670
60	706	501	297	89	21	0	0	0	5	93	347	627	2686
57	620	423	221	49	9	0	0	0	1	55	270	541	2189
55	561	373	178	30	4	0	0	0	0	37	224	484	1891
50	420	258	93	6	0	0	0	0	0	10	130	351	1268
32	80	28	1	0	0	0	0	0	0	0	4	56	169

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	241	317	588	825	1089	1283	1474	1438	1178	876	510	302	10121
55	10	17	52	164	381	593	761	725	488	200	40	17	3448
57	7	12	33	123	323	533	699	663	429	156	26	12	3016
60	0	6	16	74	242	443	606	570	343	101	13	5	2419
65	0	0	2	23	132	298	451	417	213	40	2	0	1578
70	0	0	0	4	57	167	296	272	111	10	0	0	917

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	92	161	348	571	827	1029	1205	1172	924	615	289	119	92	253	601	1172	1999	3028	4233	5405	6329	6944	7233	7352
45	44	87	225	425	672	879	1050	1017	774	469	183	60	44	131	356	781	1453	2332	3382	4399	5173	5642	5825	5885
50	19	42	128	289	517	729	895	862	624	321	102	28	19	61	189	478	995	1724	2619	3481	4105	4426	4528	4556
55	4	12	62	173	364	579	740	707	478	200	50	10	4	16	78	251	615	1194	1934	2641	3119	3319	3369	3379
60	0	4	28	87	225	429	585	552	335	99	16	1	0	4	32	119	344	773	1358	1910	2245	2344	2360	2361
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	85	140	255	389	543	686	787	753	606	431	213	106	85	225	480	869	1412	2098	2885	3638	4244	4675	4888	4994

(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