

# Climatography of the United States No. 20

National Climatic Data Center  
Federal Building  
151 Patton Avenue  
Asheville, North Carolina 28801  
www.ncdc.noaa.gov

Station: **FORDYCE, AR**

**1971-2000**

**COOP ID: 032540**

Climate Division: **AR 8**

NWS Call Sign:

Elevation: **230 Feet**

Lat: **33°49N**

Lon: **92°26W**

## 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	27.9	39.4	83	1950	25	46.8	1990	-1+	1966	30	29.3	1977	795	0	.0	.0	17.9	1.6	20.3	.1
Feb	57.1	31.5	44.3	84+	1986	21	51.5	1976	-1	1951	2	33.2	1978	580	0	.0	.0	21.8	.8	13.5	.0
Mar	65.0	39.0	52.0	92	1946	30	57.8	1974	10	1943	3	47.1	1996	406	3	.0	.0	29.0	.0	6.2	.0
Apr	72.7	46.3	59.5	95+	1987	19	65.6	1981	26	1975	3	50.8	1983	199	34	.0	.4	29.9	.0	.9	.0
May	79.3	55.8	67.6	98	1951	30	72.5	1987	37+	1954	4	60.6	1976	65	144	.0	2.3	31.0	.0	.0	.0
Jun	86.3	63.8	75.1	102+	1953	22	80.1	1998	44	1984	1	70.6	1976	2	304	.1	13.5	30.0	.0	.0	.0
Jul	90.4	67.8	79.1	107	1954	16	83.4	1998	51+	1947	23	74.5	1984	0	437	1.6	23.4	31.0	.0	.0	.0
Aug	90.7	66.1	78.4	108+	1943	8	83.3	2000	48	1986	29	74.2	1992	1	417	2.1	23.4	31.0	.0	.0	.0
Sep	84.1	59.7	71.9	110	1947	1	77.4	1998	35	1942	27	65.8	1974	21	227	.6	10.5	30.0	.0	.0	.0
Oct	74.6	48.0	61.3	97+	1953	1	66.8	1971	26	1993	31	54.0	1976	162	48	.0	.9	31.0	.0	1.0	.0
Nov	62.7	38.4	50.6	88+	1943	1	56.0	1985	14	1976	29	43.2	1976	437	4	.0	.0	27.1	@	7.8	.0
Dec	53.4	31.0	42.2	80+	1948	13	53.7	1984	-2	1989	24	32.4	1983	706	0	.0	.0	21.1	1.2	17.0	.1
Ann	72.3	47.9	60.1	110	Sep 1947	1	83.4	Jul 1998	-2	Dec 1989	24	29.3	Jan 1977	3374	1618	4.4	74.4	330.8	3.6	66.7	.2

+ 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](http://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: 1936-2001

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

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**Elevation: 230 Feet Lat: 33°49N**

**Lon: 92°26W**

**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	4.54	4.10	5.51	1938	22	9.42	1974	.23	1986	10.9	7.4	3.1	1.5	1.15	1.57	2.23	2.82	3.39	4.00	4.68	5.49	6.54	8.20	9.76
Feb	4.21	3.76	3.35	1986	4	8.91	1989	.37	1972	8.0	5.8	3.1	1.4	1.11	1.51	2.12	2.66	3.19	3.74	4.35	5.08	6.03	7.52	8.92
Mar	5.46	5.54	5.05	1950	12	11.31	1990	1.60	1982	10.0	7.5	3.7	1.5	2.14	2.64	3.36	3.96	4.52	5.09	5.71	6.43	7.34	8.74	10.01
Apr	4.54	4.13	5.10	1997	5	15.78	1991	.57	1987	8.1	6.0	2.9	1.4	1.00	1.42	2.08	2.69	3.29	3.93	4.65	5.52	6.65	8.47	10.18
May	4.82	4.71	3.80	1968	17	8.98	1981	1.23	1988	10.3	7.2	3.3	1.7	1.61	2.06	2.73	3.30	3.85	4.41	5.03	5.75	6.68	8.11	9.44
Jun	4.25	3.60	5.27	1974	8	8.31	1974	1.18	1985	8.9	6.5	3.0	1.1	1.47	1.87	2.45	2.95	3.42	3.90	4.43	5.05	5.84	7.07	8.19
Jul	3.97	3.69	7.24	1971	24	14.09	1989	.39	2000	8.2	5.7	2.5	1.1	.52	.84	1.41	1.96	2.54	3.18	3.93	4.85	6.09	8.12	10.09
Aug	2.73	2.38	8.19	1960	21	12.26	1974	.67	2000	7.0	4.4	1.9	.8	.58	.83	1.23	1.59	1.96	2.35	2.79	3.32	4.01	5.12	6.17
Sep	3.22	3.07	4.08	1998	13	8.81	1974	.70	1982	7.4	5.0	2.2	.9	.76	1.06	1.53	1.95	2.37	2.82	3.31	3.91	4.68	5.92	7.08
Oct	4.60	4.05	4.57	1986	24	12.38	1984	.45	2000	7.2	5.4	2.8	1.5	.79	1.19	1.86	2.49	3.14	3.84	4.64	5.62	6.91	9.01	11.01
Nov	5.44	4.58	5.62	1952	9	13.30	1987	.82	1981	9.8	7.0	3.6	1.7	1.57	2.09	2.87	3.54	4.20	4.88	5.64	6.53	7.69	9.50	11.18
Dec	5.52	5.23	4.60	1983	3	14.50	1982	.72	1981	9.3	7.2	3.6	1.9	1.58	2.11	2.90	3.58	4.25	4.95	5.72	6.64	7.82	9.67	11.39
Ann	53.30	51.24	8.19	Aug 1960	21	15.78	Apr 1991	.23	Jan 1986	105.1	75.1	35.7	16.5	40.55	43.08	46.29	48.70	50.83	52.87	54.96	57.27	60.04	64.03	67.46

+ 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: 1936-2001

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**Climate Division: AR 8**

**NWS Call Sign:**

**Elevation: 230 Feet**

**Lat: 33°49N**

**Lon: 92°26W**

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	2.5	.5	#	0	10.0	2000	28	10.0	2000	5	1975	12	#+	2000	.5	.5	.2	.2	.1	.7	.1	.1	.0
Feb	.1	.0	#	0	1.0	1971	8	1.0	1971	#+	1975	6	#+	1975	.2	.1	.0	.0	.0	.0	.0	.0	.0
Mar	.2	.0	#	0	1.5	1971	3	1.5	1971	1	1975	14	#+	1975	.2	.1	.0	.0	.0	@	.0	.0	.0
Apr	#	.0	0	0	#	1971	6	#	1971	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	1.0	1971	23	1.0	1971	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.2	.0	#	0	1.0	1972	11	1.0	1972	1	1973	20	#+	1998	.2	.1	.0	.0	.0	.1	.0	.0	.0
Ann	3.1	.5	N/A	N/A	10.0	Jan 2000	28	10.0	Jan 2000	5	Jan 1975	12	#+	Jan 2000	1.2	.9	.2	.2	.1	.8	.1	.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

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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	4/21	4/17	4/14	4/11	4/09	4/07	4/04	4/01	3/28
32	4/13	4/08	4/04	4/01	3/29	3/25	3/22	3/18	3/13
28	4/01	3/25	3/19	3/14	3/10	3/06	3/01	2/23	2/16
24	3/15	3/08	3/04	2/28	2/24	2/20	2/16	2/11	2/04
20	3/07	2/26	2/20	2/15	2/11	2/06	2/01	1/26	1/18
16	2/26	2/16	2/08	2/02	1/27	1/20	1/13	1/04	12/19
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	10/10	10/14	10/18	10/20	10/23	10/26	10/29	11/01	11/06
32	10/18	10/23	10/27	10/31	11/03	11/06	11/10	11/14	11/19
28	10/26	11/02	11/07	11/11	11/15	11/18	11/23	11/27	12/04
24	11/09	11/16	11/21	11/25	11/29	12/03	12/07	12/12	12/19
20	11/16	11/27	12/04	12/11	12/17	12/23	12/29	1/05	1/16
16	12/06	12/15	12/22	12/28	1/03	1/09	1/15	1/24	2/08
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	214	208	204	200	196	193	189	185	179
32	243	235	229	224	219	214	209	203	195
28	279	269	261	255	249	243	237	229	219
24	305	296	289	283	278	272	266	260	250
20	343	329	320	312	306	299	292	283	272
16	>365	>365	>365	349	337	328	320	311	300

\* 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	795	580	406	199	65	2	0	1	21	162	437	706	3374
60	640	444	267	104	22	0	0	0	4	76	301	558	2416
57	550	367	194	63	10	0	0	0	1	43	229	472	1929
55	493	316	154	41	6	0	0	0	0	27	187	416	1640
50	352	206	74	12	0	0	0	0	0	6	102	289	1041
32	42	13	0	0	0	0	0	0	0	0	2	32	89

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	271	357	620	825	1102	1292	1460	1439	1197	909	559	349	10380
55	8	17	61	177	395	602	747	726	507	223	53	20	3536
57	3	11	40	138	337	542	685	664	448	176	35	14	3093
60	0	5	19	90	256	452	592	571	361	117	18	7	2488
65	0	0	3	34	144	304	437	417	227	48	4	0	1618
70	0	0	0	9	65	168	285	271	122	13	0	0	933

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	145	238	455	660	931	1108	1272	1241	1008	711	370	190	145	383	838	1498	2429	3537	4809	6050	7058	7769	8139	8329
45	78	144	315	512	776	958	1117	1086	858	557	247	109	78	222	537	1049	1825	2783	3900	4986	5844	6401	6648	6757
50	38	75	196	366	621	808	962	931	708	409	148	53	38	113	309	675	1296	2104	3066	3997	4705	5114	5262	5315
55	12	33	106	235	467	658	807	776	558	267	77	27	12	45	151	386	853	1511	2318	3094	3652	3919	3996	4023
60	0	9	47	128	317	508	652	621	413	157	28	6	0	9	56	184	501	1009	1661	2282	2695	2852	2880	2886
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	105	167	294	423	620	756	859	833	673	465	237	128	105	272	566	989	1609	2365	3224	4057	4730	5195	5432	5560

(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:  
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## 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](http://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"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
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## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)