

Climatography of the United States

No. 20

1971-2000

Station: EUDORA, AR

COOP ID: 032355

Climate Division: AR 9

NWS Call Sign:

Elevation: 135 Feet Lat: 33°07N Lon: 91°16W

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	53.1	33.2	43.2	80	1972	25	49.6+	1990	3	1982	11	32.8	1977	678	0	.0	.0	18.4	2.0	15.7	.0
Feb	58.7	37.0	47.9	83	1986	27	56.1	1976	10	1996	4	36.7	1978	483	3	.0	.0	20.5	.9	9.8	.0
Mar	67.1	44.8	56.0	89	1995	24	61.4	1974	16	1996	9	51.2	1996	292	12	.0	.0	28.8	@	2.9	.0
Apr	75.4	52.3	63.9	96	1999	26	70.1	1981	29+	1987	4	57.7	1983	108	72	.0	.2	29.9	.0	.3	.0
May	83.4	61.6	72.5	98	1977	31	76.4	1987	37	1994	1	67.5	1976	13	246	.0	4.5	31.0	.0	.0	.0
Jun	90.4	69.1	79.8	103+	1988	29	82.6	1998	50	1966	1	75.8	1976	0	442	.3	17.9	30.0	.0	.0	.0
Jul	93.5	71.9	82.7	105+	1980	17	86.7	1980	52	1968	4	80.1	1994	0	548	1.8	24.5	31.0	.0	.0	.0
Aug	93.0	70.3	81.7	107	2000	31	86.5	2000	54+	1963	16	77.7	1992	0	517	1.9	23.2	31.0	.0	.0	.0
Sep	87.9	63.8	75.9	108	2000	1	81.8	1998	38	1967	29	69.9	1974	5	331	.5	13.4	30.0	.0	.0	.0
Oct	78.7	52.0	65.4	98	1998	1	70.7	1971	27	1993	31	58.8	1976	89	100	.0	1.9	31.0	.0	.3	.0
Nov	66.6	43.2	54.9	88+	1971	2	60.6	1973	16	1976	29	46.8	1976	320	16	.0	.0	27.5	@	4.3	.0
Dec	56.6	35.9	46.3	83	1982	3	56.7	1984	3	1989	23	36.7	2000	586	4	.0	.0	21.4	.8	12.4	.0
Ann	75.4	52.9	64.2	108	Sep 2000	1	86.7	Jul 1980	3+	Dec 1989	23	32.8	Jan 1977	2574	2291	4.5	85.6	330.5	3.7	45.7	.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: 1962-2001

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

027-A

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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: EUDORA, AR

COOP ID: 032355

Climate Division: AR 9

NWS Call Sign:

Elevation: 135 Feet Lat: 33°07N

Lon: 91°16W

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	5.65	4.17	4.18	1997	24	14.31	1999	.39	1986	9.2	7.6	3.9	1.8	1.18	1.70	2.53	3.28	4.04	4.85	5.77	6.87	8.32	10.64	12.83	
Feb	5.09	4.69	5.91	1966	10	10.71	1987	1.12	1999	7.7	6.1	3.6	2.0	1.38	1.86	2.59	3.24	3.87	4.53	5.26	6.13	7.27	9.04	10.70	
Mar	5.98	5.41	5.89	1973	16	14.42	1973	1.53	1978	9.0	7.3	4.2	1.9	2.22	2.78	3.59	4.26	4.89	5.55	6.25	7.07	8.12	9.73	11.21	
Apr	6.15	6.04	4.96	1974	22	17.16	1991	.67	1976	7.1	5.8	3.8	2.3	1.35	1.92	2.82	3.64	4.45	5.32	6.30	7.47	9.01	11.47	13.79	
May	5.43	5.50	5.04	1980	16	12.81	1978	.70	1985	9.0	7.1	3.5	1.7	1.18	1.68	2.48	3.20	3.92	4.69	5.56	6.60	7.97	10.15	12.21	
Jun	4.10	3.89	3.54	1972	16	10.52	1974	.66	1988	7.8	6.0	2.9	1.4	.97	1.35	1.95	2.49	3.02	3.58	4.22	4.97	5.96	7.52	9.00	
Jul	3.57	3.10	2.94	1995	6	9.94	1989	.06	1999	7.5	5.3	2.0	1.1	.31	.56	1.03	1.53	2.07	2.69	3.43	4.35	5.63	7.76	9.85	
Aug	2.88	1.98	3.63	1992	6	8.58	1992	.36	2000	5.6	4.4	1.8	.9	.36	.59	1.00	1.40	1.83	2.30	2.85	3.52	4.44	5.95	7.41	
Sep	2.71	2.52	3.02	1965	10	4.91	1974	.33	1987	5.9	4.4	1.8	.7	.79	1.05	1.44	1.77	2.10	2.44	2.81	3.26	3.83	4.72	5.55	
Oct	3.93	3.22	4.32	1984	7	15.11	1984	.43	1987	6.1	4.7	2.4	1.4	.47	.78	1.33	1.88	2.46	3.11	3.87	4.81	6.08	8.18	10.21	
Nov	5.36	4.27	5.40	2001	29	13.01	1986	1.99	1999	8.3	6.7	3.7	1.8	1.76	2.27	3.02	3.65	4.27	4.90	5.59	6.40	7.44	9.05	10.54	
Dec	5.68	5.22	7.48	1983	3	18.97	1982	.75	1980	8.9	7.1	3.7	2.0	1.32	1.85	2.68	3.43	4.17	4.95	5.83	6.88	8.26	10.45	12.51	
Ann	56.53	55.05	7.48	Dec 1983	3	18.97	Dec 1982	.06	Jul 1999	92.1	72.5	37.3	19.0	38.93	42.30	46.63	49.94	52.89	55.75	58.71	61.99	65.99	71.80	76.84	

+ 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

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NWS Call Sign:

Elevation: 135 Feet

Lat: 33°07N

Lon: 91°16W

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	#	.0	0	0	#	1991	1	#	1991	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	#	0	1.0	1971	8	1.0	1971	1	1971	8	#+	1996	.1	.1	.0	.0	.0	@	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	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	#	1990	24	#	1990	#	1990	24	#	1990	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.1	.0	N/A	N/A	1.0	Feb 1971	8	1.0	Feb 1971	1	Feb 1971	8	#+	Feb 1996	.1	.1	.0	.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

Complete documentation available from:

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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	4/15	4/09	4/05	4/01	3/29	3/25	3/21	3/17	3/11
32	4/05	3/29	3/24	3/19	3/15	3/11	3/07	3/02	2/23
28	3/17	3/10	3/05	3/01	2/25	2/21	2/16	2/11	2/04
24	3/11	2/28	2/20	2/13	2/07	1/31	1/25	1/17	1/06
20	2/26	2/15	2/08	2/01	1/25	1/17	1/06	0/00	0/00
16	2/10	1/29	1/18	1/05	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	10/17	10/23	10/27	10/30	11/03	11/06	11/10	11/14	11/20
32	10/27	11/02	11/06	11/10	11/13	11/16	11/20	11/24	11/30
28	11/08	11/15	11/19	11/24	11/28	12/02	12/06	12/11	12/18
24	11/15	11/25	12/03	12/09	12/15	12/21	12/27	1/03	1/13
20	12/03	12/14	12/22	12/29	1/05	1/13	1/24	0/00	0/00
16	12/18	12/29	1/07	1/17	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	246	237	230	224	219	213	207	200	191
32	273	262	254	248	242	236	229	222	211
28	302	293	286	281	275	270	265	258	249
24	358	337	325	316	308	300	291	282	268
20	>365	>365	>365	>365	359	336	323	310	295
16	>365	>365	>365	>365	>365	>365	>365	>365	328

* 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	678	483	292	108	13	0	0	0	5	89	320	586	2574
60	533	354	169	42	2	0	0	0	0	34	203	443	1780
57	447	282	113	20	0	0	0	0	0	15	146	362	1385
55	392	238	83	11	0	0	0	0	0	9	114	312	1159
50	270	148	31	1	0	0	0	0	0	1	54	206	711
32	28	7	0	0	0	0	0	0	0	0	0	15	50

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	372	450	743	954	1255	1432	1571	1540	1316	1034	686	456	11809
55	24	38	113	275	542	742	858	827	626	330	110	40	4525
57	17	25	81	224	481	682	796	765	566	275	82	28	4022
60	10	14	44	156	389	592	703	672	476	200	48	16	3320
65	0	3	12	72	246	442	548	517	331	100	16	4	2291
70	0	0	1	23	128	293	393	362	201	38	3	0	1442

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	186	278	501	710	1004	1192	1320	1286	1071	780	442	242	186	464	965	1675	2679	3871	5191	6477	7548	8328	8770	9012
45	109	179	358	560	849	1042	1165	1131	921	625	311	145	109	288	646	1206	2055	3097	4262	5393	6314	6939	7250	7395
50	56	103	235	415	694	892	1010	976	771	473	202	79	56	159	394	809	1503	2395	3405	4381	5152	5625	5827	5906
55	22	53	133	279	539	742	855	821	621	331	115	41	22	75	208	487	1026	1768	2623	3444	4065	4396	4511	4552
60	3	18	63	166	386	592	700	666	473	204	55	13	3	21	84	250	636	1228	1928	2594	3067	3271	3326	3339
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	111	168	294	444	680	824	900	875	719	506	269	144	111	279	573	1017	1697	2521	3421	4296	5015	5521	5790	5934

(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