

Climatography of the United States

No. 20

1971-2000

Station: DARDANELLE, AR

COOP ID: 031838

Climate Division: AR 4

NWS Call Sign:

Elevation: 370 Feet Lat: 35°14N Lon: 93°10W

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	49.7	28.3	39.0	82	1950	25	46.3	1990	-9	1962	11	27.5	1979	807	0	.0	.0	15.8	2.2	20.8	.1
Feb	56.6	32.4	44.5	86	1962	13	51.7	1976	-14	1951	2	32.8	1978	575	0	.0	.0	20.8	1.0	14.4	@
Mar	65.6	40.7	53.2	92	1974	31	58.3	1974	13+	1965	20	47.2	1996	375	7	.0	@	28.9	.0	6.5	.0
Apr	74.8	48.5	61.7	94+	1987	20	67.6	1981	24	1989	11	56.6	1983	137	36	.0	.4	30.0	.0	1.2	.0
May	81.3	57.6	69.5	98	1951	30	74.1	1987	34	1960	1	65.4	1976	33	172	.0	2.0	31.0	.0	.0	.0
Jun	88.6	65.3	77.0	103	1953	19	80.2	1998	47+	1969	3	73.1	1974	1	359	.3	14.2	30.0	.0	.0	.0
Jul	93.5	69.4	81.5	110+	1954	13	86.9	1980	53	1990	15	78.5	1994	0	511	3.3	24.7	31.0	.0	.0	.0
Aug	92.9	67.9	80.4	109+	1964	4	85.6	1980	47	1986	29	74.9	1992	0	477	4.0	22.8	31.0	.0	.0	.0
Sep	85.6	61.1	73.4	108+	1954	4	79.3	1998	35	1967	29	67.6	1974	12	264	1.0	9.6	30.0	.0	.0	.0
Oct	75.8	49.4	62.6	99	1963	8	67.7	1971	24	1952	30	57.3	1976	127	54	.0	.6	30.9	.0	.9	.0
Nov	61.8	39.6	50.7	88	1952	2	56.2	1973	14+	1959	29	44.1	1976	431	2	.0	.0	26.0	@	7.7	.0
Dec	51.9	31.5	41.7	81	1955	24	50.4	1984	-3	1989	23	31.2	1983	723	0	.0	.0	18.7	1.3	17.8	.1
Ann	73.2	49.3	61.3	110+	Jul 1954	13	86.9	Jul 1980	-14	Feb 1951	2	27.5	Jan 1979	3221	1882	8.6	74.3	324.1	4.5	69.3	.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/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

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

021-A

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: DARDANELLE, AR

COOP ID: 031838

Climate Division: AR 4

NWS Call Sign:

Elevation: 370 Feet Lat: 35°14N

Lon: 93°10W

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	3.15	2.55	4.73	1998	5	7.84	1998	1.05	1986	8.0	5.7	1.9	.6	.84	1.13	1.59	1.99	2.38	2.79	3.25	3.80	4.50	5.62	6.66
Feb	3.19	3.04	3.02	1998	11	7.79	1989	.58	1972	6.8	4.9	2.4	1.0	.72	1.02	1.49	1.91	2.32	2.77	3.27	3.87	4.65	5.90	7.07
Mar	4.60	4.06	4.70	1977	28	9.94	1973	1.71	1993	8.4	6.7	3.6	1.3	1.59	2.02	2.65	3.19	3.70	4.23	4.81	5.48	6.34	7.67	8.89
Apr	4.24	4.09	4.31	1957	3	10.45	1991	.87	1987	8.0	6.1	2.8	1.4	1.23	1.63	2.24	2.76	3.28	3.81	4.40	5.09	5.99	7.40	8.71
May	5.67	5.51	4.96	1978	8	13.15	1990	.87	1977	10.5	8.0	3.9	1.8	1.79	2.33	3.12	3.81	4.47	5.15	5.90	6.78	7.92	9.69	11.32
Jun	4.26	4.37	4.85	1977	27	8.62	1987	.13	1984	8.3	6.8	2.8	1.3	.84	1.23	1.85	2.42	3.00	3.63	4.33	5.18	6.30	8.11	9.82
Jul	3.31	3.12	3.93	1989	13	8.15	1989	.69	1980	6.7	5.3	2.3	.9	.91	1.22	1.70	2.11	2.52	2.95	3.43	3.99	4.72	5.86	6.93
Aug	2.76	2.72	6.38	1957	13	6.64	1974	.00	2000	6.1	4.2	1.7	.8	.41	.78	1.25	1.63	2.01	2.41	2.86	3.39	4.09	5.19	6.23
Sep	3.56	3.40	3.73	1965	22	7.57	1977	.77	1999	7.7	5.7	2.6	.9	.97	1.31	1.82	2.27	2.71	3.17	3.69	4.29	5.08	6.32	7.48
Oct	4.19	3.45	7.15	1998	6	18.53	1984	.71	1989	6.9	5.2	2.7	1.3	.65	1.01	1.62	2.20	2.80	3.45	4.20	5.12	6.35	8.36	10.28
Nov	5.36	5.23	5.04	1994	5	11.01	1996	.64	1989	7.6	5.9	3.6	1.8	1.39	1.89	2.67	3.35	4.03	4.74	5.53	6.47	7.69	9.63	11.43
Dec	4.30	4.01	5.53	1971	10	10.54	1982	.93	1989	7.6	5.8	2.8	1.2	1.13	1.54	2.16	2.71	3.25	3.81	4.44	5.19	6.16	7.69	9.13
Ann	48.59	47.48	7.15	Oct 1998	6	18.53	Oct 1984	.00	Aug 2000	92.6	70.3	33.1	14.3	35.30	37.89	41.20	43.71	45.93	48.07	50.27	52.71	55.66	59.92	63.60

+ 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: 1948-2001

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Station: DARDANELLE, AR

COOP ID: 031838

Climate Division: AR 4

NWS Call Sign:

Elevation: 370 Feet

Lat: 35°14N

Lon: 93°10W

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	2.4	1.0	#	#	12.0	1988	7	14.0	1988	14	1988	7	3	1977	1.3	.7	.3	.2	@	2.4	1.3	.5	.1
Feb	1.1	.0	#	#	5.0	1997	13	6.3+	1985	5	1997	13	1	1985	.8	.4	.1	@	.0	.7	.1	.1	.0
Mar	.4	.0	#	0	4.2	1975	14	4.2	1975	4	1975	14	#+	1999	.3	.2	@	.0	.0	.1	@	.0	.0
Apr	#	.0	0	0	#	1983	20	#+	1983	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	#	1993	30	#	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.4	.0	#	0	5.8	1971	23	5.8	1971	6	1971	23	#+	2000	.2	.1	.1	@	.0	.1	.1	@	.0
Dec	.4	.0	#	0	3.0	1975	25	4.0	1975	3	1990	27	#+	2000	.7	.2	@	.0	.0	.8	.1	.0	.0
Ann	4.7	1.0	N/A	N/A	12.0	Jan 1988	7	14.0	Jan 1988	14	Jan 1988	7	3	Jan 1977	3.3	1.6	.5	.2	@	4.1	1.6	.6	.1

+ 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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COOP ID: 031838

Climate Division: AR 4

NWS Call Sign:

Elevation: 370 Feet

Lat: 35° 14N

Lon: 93° 10W

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	4/26	4/22	4/19	4/17	4/14	4/12	4/09	4/07	4/02
32	4/15	4/11	4/08	4/05	4/02	3/31	3/28	3/25	3/21
28	4/05	3/30	3/26	3/22	3/18	3/14	3/11	3/06	2/28
24	3/26	3/18	3/11	3/06	3/01	2/24	2/19	2/13	2/05
20	3/09	3/01	2/22	2/17	2/12	2/07	2/01	1/26	1/17
16	3/04	2/22	2/15	2/08	2/02	1/27	1/19	1/09	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	10/02	10/07	10/11	10/14	10/17	10/19	10/22	10/26	10/31
32	10/19	10/24	10/27	10/30	11/02	11/05	11/08	11/11	11/16
28	10/27	11/02	11/07	11/11	11/14	11/17	11/21	11/26	12/02
24	11/05	11/13	11/19	11/23	11/28	12/02	12/07	12/13	12/21
20	11/15	11/24	11/30	12/05	12/10	12/15	12/20	12/26	1/04
16	11/25	12/06	12/15	12/22	12/29	1/06	1/14	1/26	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	202	196	192	188	185	181	177	173	167
32	232	225	221	217	213	209	205	200	194
28	267	258	251	245	240	235	229	223	214
24	301	289	281	274	268	262	256	248	238
20	339	321	311	304	297	290	283	275	264
16	>365	>365	>365	338	325	315	305	295	282

* 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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Climate Division: AR 4 NWS Call Sign: Elevation: 370 Feet Lat: 35°14N Lon: 93°10W

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	807	575	375	137	33	1	0	0	12	127	431	723	3221
60	654	444	240	55	7	0	0	0	1	52	294	571	2318
57	568	368	174	26	2	0	0	0	0	26	220	485	1869
55	509	320	136	14	0	0	0	0	0	14	178	428	1599
50	372	215	65	2	0	0	0	0	0	2	94	297	1047
32	58	19	0	0	0	0	0	0	0	0	1	32	110

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	273	368	655	889	1162	1348	1534	1500	1242	949	562	333	10815
55	12	25	78	213	449	658	821	787	552	251	49	16	3911
57	8	17	54	165	389	598	759	725	492	200	32	11	3450
60	1	10	27	104	301	508	666	632	403	133	15	4	2804
65	0	0	7	36	172	359	511	477	264	54	2	0	1882
70	0	0	0	7	78	215	356	329	147	14	0	0	1146

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	112	211	419	658	923	1123	1301	1266	1014	711	344	141	112	323	742	1400	2323	3446	4747	6013	7027	7738	8082	8223
45	53	120	288	508	768	973	1146	1111	864	557	222	68	53	173	461	969	1737	2710	3856	4967	5831	6388	6610	6678
50	24	60	176	363	613	823	991	956	714	407	125	32	24	84	260	623	1236	2059	3050	4006	4720	5127	5252	5284
55	5	25	88	234	459	673	836	801	564	269	62	13	5	30	118	352	811	1484	2320	3121	3685	3954	4016	4029
60	0	3	38	126	306	523	681	646	421	151	22	0	0	3	41	167	473	996	1677	2323	2744	2895	2917	2917
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	78	146	271	424	614	768	870	842	679	465	210	87	78	224	495	919	1533	2301	3171	4013	4692	5157	5367	5454

(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/normal/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