

Climatology of the United States

No. 20

1971-2000

Station: DERMOTT 3 NE, AR

COOP ID: 031962

Climate Division: AR 9

NWS Call Sign:

Elevation: 143 Feet Lat: 33° 33N Lon: 91° 23W

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	51.0	31.6	41.3	81	1972	25	47.9	1990	1	1977	19	30.8	1977	735	0	.0	.0	16.7	2.7	16.9	.0
Feb	56.9	35.5	46.2	85	1986	27	54.1	1976	9	1996	4	34.8	1978	527	1	.0	.0	19.9	1.1	10.8	.0
Mar	65.4	43.4	54.4	89	1995	23	58.8	1974	15	1993	14	49.0	1980	338	9	.0	.0	28.4	.1	3.8	.0
Apr	74.2	50.7	62.5	95	1987	22	68.5	1981	27	1987	4	56.6	1983	131	55	.0	.5	29.9	.0	.4	.0
May	82.7	60.3	71.5	99	1977	31	76.6	1996	36	1976	4	64.9	1976	26	226	.0	6.4	31.0	.0	.0	.0
Jun	90.0	68.1	79.1	106	1988	30	83.2	1998	43	1966	1	74.9	1974	0	421	.6	18.5	30.0	.0	.0	.0
Jul	93.3	71.2	82.3	107+	1980	14	86.3	1980	52	1967	15	79.2	1972	0	534	3.2	24.8	31.0	.0	.0	.0
Aug	92.3	69.0	80.7	107	2000	28	85.3	2000	51+	1967	14	75.8	1992	0	485	2.9	22.4	31.0	.0	.0	.0
Sep	86.8	61.9	74.4	106	1980	17	80.1	1998	32	1967	29	67.8	1974	11	291	.8	12.9	30.0	.0	.0	.0
Oct	77.3	49.8	63.6	98	1986	1	68.4	1998	25+	1965	25	56.5	1976	121	75	.0	2.4	31.0	.0	.6	.0
Nov	64.3	42.0	53.2	88	1984	1	59.0	1985	16	1966	3	44.7	1976	362	8	.0	.0	26.9	.1	5.8	.0
Dec	54.4	34.7	44.6	83	1982	3	54.5	1984	-3	1963	24	34.9	1983	635	0	.0	.0	20.6	1.3	13.4	.0
Ann	74.1	51.5	62.8	107+	Aug 2000	28	86.3	Jul 1980	-3	Dec 1963	24	30.8	Jan 1977	2886	2105	7.5	87.9	326.4	5.3	51.7	.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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1963-2001

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

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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: DERMOTT 3 NE, AR

COOP ID: 031962

Climate Division: AR 9

NWS Call Sign:

Elevation: 143 Feet Lat: 33°33N

Lon: 91°23W

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	5.24	4.54	7.50	2000	28	13.79	1999	.67	1986	11.1	8.5	3.5	1.4	1.20	1.68	2.45	3.14	3.83	4.56	5.38	6.36	7.65	9.69	11.62
Feb	4.98	4.59	8.03	1966	10	15.54	1991	1.21	1972	8.7	6.2	3.2	1.7	1.11	1.57	2.30	2.95	3.61	4.31	5.10	6.04	7.28	9.25	11.11
Mar	5.46	5.10	3.60	1992	10	12.96	1973	1.09	1982	9.7	7.4	3.7	1.7	1.95	2.46	3.21	3.83	4.43	5.04	5.71	6.48	7.48	9.01	10.41
Apr	5.05	4.64	6.50	1991	28	22.04	1991	.92	1987	8.3	6.2	3.2	1.7	.97	1.42	2.16	2.84	3.54	4.28	5.13	6.15	7.51	9.68	11.75
May	4.97	4.66	4.83	1998	29	11.13	1979	.37	1988	9.3	7.1	3.3	1.6	1.12	1.58	2.31	2.97	3.62	4.32	5.10	6.03	7.26	9.22	11.06
Jun	4.25	3.77	6.25	1985	18	10.51	1989	.58	1998	8.1	5.4	2.8	1.3	.89	1.28	1.90	2.47	3.04	3.65	4.34	5.16	6.25	7.99	9.64
Jul	3.90	3.26	3.95	1969	25	12.91	1989	.58	1997	7.8	6.0	2.6	1.2	.77	1.12	1.69	2.22	2.75	3.32	3.97	4.75	5.78	7.44	9.02
Aug	2.52	2.57	3.00	1978	29	7.09	1975	.00	2000	6.1	4.3	1.9	.6	.14	.37	.76	1.13	1.53	1.97	2.48	3.11	3.97	5.40	6.78
Sep	2.93	2.64	4.22	1965	11	7.01	1974	.58	1995	6.8	4.8	2.0	.9	.76	1.04	1.47	1.84	2.21	2.60	3.03	3.54	4.21	5.26	6.24
Oct	3.87	3.38	4.85	1984	7	14.23	1984	.27	2000	6.7	4.7	2.5	1.2	.49	.80	1.35	1.89	2.46	3.09	3.82	4.73	5.95	7.97	9.91
Nov	5.18	4.68	4.70	1972	7	11.24	1987	1.87	1995	8.9	6.9	3.7	1.8	1.83	2.32	3.03	3.62	4.19	4.78	5.41	6.15	7.10	8.56	9.90
Dec	5.72	5.41	5.05	1983	3	18.81	1982	.74	1984	9.5	7.4	3.9	2.0	1.30	1.84	2.67	3.42	4.18	4.97	5.87	6.93	8.34	10.57	12.67
Ann	54.07	51.92	8.03	Feb 1966	10	22.04	Apr 1991	.00	Aug 2000	101.0	74.9	36.3	17.1	35.82	39.26	43.72	47.13	50.19	53.17	56.27	59.71	63.91	70.04	75.39

+ 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: 1963-2001

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

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

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Station: DERMOTT 3 NE, AR

COOP ID: 031962

Climate Division: AR 9

NWS Call Sign:

Elevation: 143 Feet

Lat: 33°33N

Lon: 91°23W

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	1.3	.0	#	0	6.0	1992	18	6.0	1992	5	1992	19	1	1988	.7	.6	.1	@	.0	.9	.3	.0	.0
Feb	.6	.0	#	0	2.5	1985	2	3.8	1985	3	1985	2	#+	1988	.6	.3	.0	.0	.0	.3	@	.0	.0
Mar	.1	.0	#	0	1.5	1971	3	1.5	1971	2	1971	3	#+	1980	@	@	.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	.5	1975	23	.5	1975	1	1975	23	#+	1976	@	.0	.0	.0	.0	@	.0	.0	.0
Dec	.2	.0	#	0	4.0	1983	17	4.0	1983	4	1983	17	#+	1983	.1	@	@	.0	.0	.1	@	.0	.0
Ann	2.2	.0	N/A	N/A	6.0	Jan 1992	18	6.0	Jan 1992	5	Jan 1992	19	1	Jan 1988	1.4	.9	.1	@	.0	1.3	.3	.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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Station: DERMOTT 3 NE, AR

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Climate Division: AR 9

NWS Call Sign:

Elevation: 143 Feet

Lat: 33°33N

Lon: 91°23W

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	4/16	4/12	4/09	4/06	4/03	3/31	3/28	3/23
32	4/10	4/04	3/30	3/27	3/23	3/20	3/16	3/12	3/06
28	3/28	3/19	3/13	3/08	3/03	2/26	2/21	2/14	2/06
24	3/08	2/28	2/22	2/17	2/13	2/08	2/03	1/28	1/20
20	2/28	2/18	2/11	2/05	1/30	1/23	1/16	1/06	0/00
16	2/18	2/07	1/29	1/21	1/11	12/25	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	10/07	10/12	10/15	10/18	10/21	10/24	10/27	10/31	11/05
32	10/17	10/23	10/28	11/01	11/04	11/08	11/12	11/16	11/23
28	11/02	11/08	11/13	11/17	11/20	11/24	11/28	12/03	12/09
24	11/07	11/18	11/26	12/03	12/09	12/15	12/22	12/30	1/10
20	11/21	12/02	12/10	12/17	12/24	12/31	1/08	1/19	0/00
16	12/13	12/25	1/03	1/13	1/24	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	214	208	204	200	197	194	190	186	180
32	253	243	237	231	226	220	214	208	198
28	291	281	274	268	262	256	250	242	232
24	336	321	312	304	296	289	281	272	260
20	>365	>365	>365	338	325	315	305	295	282
16	>365	>365	>365	>365	>365	>365	348	334	320

* 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 9 NWS Call Sign: Elevation: 143 Feet Lat: 33°33N Lon: 91°23W

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	735	527	338	131	26	0	0	0	11	121	362	635	2886
60	587	397	207	55	6	0	0	0	2	51	232	491	2028
57	499	322	145	27	2	0	0	0	0	26	168	407	1596
55	443	275	110	16	0	0	0	0	0	15	132	354	1345
50	313	178	47	2	0	0	0	0	0	3	63	238	844
32	39	11	0	0	0	0	0	0	0	0	0	21	71

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	327	409	694	914	1223	1411	1557	1508	1270	977	635	410	11335
55	18	30	92	239	511	721	844	795	580	279	77	29	4215
57	13	20	64	191	450	661	782	733	520	228	54	20	3736
60	7	11	33	129	361	571	689	640	432	160	28	11	3072
65	0	1	9	55	226	421	534	485	291	75	8	0	2105
70	0	0	0	16	120	273	379	334	171	26	0	0	1319

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	167	256	485	703	996	1188	1327	1275	1048	753	418	222	167	423	908	1611	2607	3795	5122	6397	7445	8198	8616	8838
45	90	165	345	554	841	1038	1172	1120	898	599	294	128	90	255	600	1154	1995	3033	4205	5325	6223	6822	7116	7244
50	45	94	224	408	686	888	1017	965	748	449	191	69	45	139	363	771	1457	2345	3362	4327	5075	5524	5715	5784
55	21	46	131	276	531	738	862	810	598	309	110	32	21	67	198	474	1005	1743	2605	3415	4013	4322	4432	4464
60	1	14	61	163	378	588	707	655	452	191	54	10	1	15	76	239	617	1205	1912	2567	3019	3210	3264	3274
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	100	158	288	442	667	809	896	859	697	493	259	130	100	258	546	988	1655	2464	3360	4219	4916	5409	5668	5798

(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