Climatography
of the United States
No. 20
1971-2000

Station: NASHVILLE, AR

COOP ID: 035112

Climate Division: AR 7   **NWS Call Sign:**   **Elevation: 400 Feet   Lat: 33°56N   Lon: 93°51W**

	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	51.1	29.8	40.5	84	1950	26	46.2	1998	-12	1962	10	31.1	1979	760	0	.0	.0	17.1	1.6	19.2	.1
Feb	56.9	33.4	45.2	85	1996	22	52.6	1976	-10	1951	2	33.8	1978	555	0	.0	.0	20.0	1.0	12.9	.0
Mar	64.8	41.1	53.0	87+	1995	23	59.1	1974	8	1965	20	48.0	1978	379	6	.0	.0	28.5	.1	5.7	.0
Apr	73.1	48.5	60.8	92+	1974	1	66.4	1981	23+	1975	3	55.7	1983	158	30	.0	.2	29.8	.0	1.0	.0
May	80.1	58.3	69.2	95+	1951	30	73.7	1987	36	1996	1	64.5	1976	36	166	.0	1.5	31.0	.0	.0	.0
Jun	87.4	66.3	76.9	103+	1952	29	80.5	1998	47	1970	3	73.5	1974	0	356	.0	11.0	30.0	.0	.0	.0
Jul	91.9	70.1	81.0	107	1954	25	86.7	1998	55	1967	15	77.5	1989	0	496	2.4	22.0	31.0	.0	.0	.0
Aug	92.1	69.0	80.6	108	1954	30	84.9	2000	51	1956	22	75.6	1992	0	481	3.0	21.5	31.0	.0	.0	.0
Sep	85.3	62.7	74.0	110	2000	1	79.6	1998	36	1967	29	67.3	1974	10	279	.8	9.6	30.0	.0	.0	.0
Oct	75.4	50.8	63.1	101	1953	1	67.7	1971	24+	1952	29	56.6	1976	120	61	.0	.5	30.8	.0	.4	.0
Nov	62.9	40.7	51.8	85+	1950	1	56.8	1985	12+	1970	24	45.6	1976	400	4	.0	.0	26.4	@	7.3	.0
Dec	53.9	32.9	43.4	80+	1948	14	52.8	1984	-5	1989	23	31.5	1983	669	0	.0	.0	20.5	1.1	15.4	.1
Ann	72.9	50.3	61.6	110	Sep 2000	1	86.7	Jul 1998	-12	Jan 1962	10	31.1	Jan 1979	3087	1879	6.2	66.3	326.1	3.8	61.9	.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

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	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	3.50	2.91	5.46	1949	25	7.85	1999	.10	1983	9.8	6.1	2.3	.9	.54	.84	1.35	1.83	2.33	2.88	3.50	4.27	5.30	6.97	8.58
Feb	3.81	3.72	3.36	1959	14	8.05	1989	.94	1999	8.8	5.9	2.6	1.0	1.22	1.59	2.12	2.57	3.01	3.47	3.96	4.55	5.30	6.46	7.54
Mar	5.13	4.55	6.07	1990	8	13.41	1973	1.63	1974	10.2	7.0	3.6	1.5	1.82	2.30	3.00	3.59	4.15	4.73	5.36	6.09	7.02	8.46	9.79
Apr	4.81	4.47	4.84	1986	5	12.10	1986	1.11	1987	9.3	6.2	3.1	1.5	1.29	1.75	2.44	3.05	3.65	4.28	4.98	5.80	6.88	8.56	10.14
May	5.29	5.31	10.30	1998	28	10.53	1998	.76	1988	10.4	7.5	3.2	1.5	1.64	2.15	2.89	3.53	4.15	4.79	5.50	6.33	7.40	9.06	10.60
Jun	4.82	4.54	4.54	1983	29	10.09	1973	.34	1971	8.6	6.3	3.3	1.6	.78	1.20	1.90	2.56	3.24	3.99	4.84	5.88	7.27	9.53	11.69
Jul	4.00	3.77	6.98	1983	2	10.97	1989	.47+	1999	7.1	4.7	2.5	1.5	.52	.84	1.41	1.97	2.56	3.21	3.96	4.89	6.14	8.20	10.19
Aug	3.09	2.71	4.65	1957	12	7.72	1984	.13	2000	6.8	4.4	2.0	.9	.34	.58	1.01	1.44	1.90	2.42	3.03	3.78	4.80	6.49	8.14
Sep	3.99	2.95	6.80	1980	28	12.00	1980	.49	1971	7.8	5.0	2.2	1.3	.63	.97	1.55	2.10	2.66	3.29	4.00	4.87	6.03	7.93	9.74
Oct	5.04	4.04	8.75	1991	29	17.32	1993	.09	1975	7.7	5.3	2.9	1.5	.44	.79	1.47	2.17	2.93	3.80	4.84	6.14	7.94	10.93	13.87
Nov	5.70	4.77	6.02	1978	16	14.41	1978	.93	1999	8.9	6.7	3.6	1.9	1.28	1.81	2.65	3.40	4.15	4.95	5.85	6.92	8.33	10.57	12.69
Dec	5.22	4.83	9.81	1982	3	14.25	1982	1.01	1989	9.5	6.6	3.3	1.6	1.52	2.02	2.77	3.41	4.04	4.70	5.42	6.27	7.38	9.11	10.71
Ann	54.40	53.17	10.30	May 1998	28	17.32	Oct 1993	.09	Oct 1975	104.9	71.7	34.6	16.7	39.51	42.41	46.12	48.93	51.42	53.81	56.29	59.02	62.32	67.10	71.22

+ 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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Climate Division: AR 7   **NWS Call Sign:**   **Elevation:** 400 Feet   **Lat: 33°56N**   **Lon: 93°51W**

	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	1.5	.0	#	0	12.0	2000	28	13.0	2000	13+	2000	29	1+	2000	.6	.4	.1	@	@	1.3	.6	.2	.1
Feb	1.0	.0	#	0	6.0	1985	1	7.5	1985	6	1985	2	1	1985	.6	.4	.1	@	.0	1.0	.3	.2	.0
Mar	.1	.0	#	0	2.0	1987	30	2.0	1987	1	1971	3	#+	1989	.1	@	.0	.0	.0	@	.0	.0	.0
Apr	.0	.0	0	0	.5	1980	13	.5	1980	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	1.5	1976	14	1.5	1976	2	1976	14	#+	1997	.1	@	.0	.0	.0	.1	.0	.0	.0
Dec	.3	.0	#	0	7.5	1983	16	7.5	1983	8	1983	16	1	1983	.4	.1	@	@	.0	.4	.1	@	.0
Ann	3.0	.0	N/A	N/A	12.0	Jan 2000	28	13.0	Jan 2000	13+	Jan 2000	29	1+	Jan 2000	1.8	.9	.2	@	@	2.8	1.0	.4	.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

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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	4/15	4/12	4/10	4/08	4/05	4/03	3/30
32	4/14	4/09	4/05	4/02	3/30	3/27	3/24	3/21	3/16
28	4/05	3/30	3/26	3/22	3/18	3/15	3/11	3/06	2/28
24	3/22	3/14	3/08	3/03	2/26	2/22	2/17	2/11	2/03
20	3/10	2/28	2/21	2/16	2/10	2/05	1/30	1/23	1/13
16	2/23	2/15	2/08	2/02	1/28	1/22	1/14	12/31	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	10/13	10/18	10/22	10/25	10/28	10/31	11/03	11/06	11/11
32	10/23	10/29	11/02	11/06	11/10	11/13	11/17	11/21	11/27
28	10/27	11/03	11/09	11/13	11/18	11/22	11/27	12/02	12/10
24	11/07	11/15	11/20	11/25	11/30	12/04	12/09	12/15	12/23
20	11/19	11/29	12/06	12/12	12/17	12/23	12/29	1/05	1/14
16	12/08	12/15	12/21	12/26	12/31	1/06	1/12	1/25	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	219	213	208	204	200	196	192	187	181
32	248	240	234	228	224	219	214	208	199
28	270	261	255	249	244	239	233	227	218
24	307	296	288	282	276	270	263	256	245
20	356	335	324	315	307	299	291	281	268
16	>365	>365	>365	>365	341	329	320	310	298

* 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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U.S. Department of Commerce

National Oceanic & Atmospheric Administration

National Environmental Satellite, Data,

and Information Service

National Climatic Data Center

Federal Building

151 Patton Avenue

Asheville, North Carolina 28801

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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	760	555	379	158	36	0	0	0	10	120	400	669	3087
60	606	424	241	68	8	0	0	0	1	48	265	523	2184
57	521	347	172	34	3	0	0	0	0	23	196	437	1733
55	462	299	134	20	1	0	0	0	0	13	156	383	1468
50	326	195	62	3	0	0	0	0	0	2	80	261	929
32	38	13	0	0	0	0	0	0	0	0	1	25	77

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	300	382	650	863	1154	1346	1519	1504	1259	965	595	380	10917
55	12	24	71	192	441	656	806	791	569	264	60	24	3910
57	8	16	47	147	381	596	744	729	509	213	40	17	3447
60	1	9	23	91	294	506	651	636	420	144	19	9	2803
65	0	0	6	30	166	356	496	481	279	61	4	0	1879
70	0	0	0	6	74	211	341	330	159	18	0	0	1139

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	137	234	430	635	916	1111	1277	1266	1031	735	380	193	137	371	801	1436	2352	3463	4740	6006	7037	7772	8152	8345
45	71	144	295	489	761	961	1122	1111	881	580	253	103	71	215	510	999	1760	2721	3843	4954	5835	6415	6668	6771
50	30	74	180	349	606	811	967	956	731	430	154	53	30	104	284	633	1239	2050	3017	3973	4704	5134	5288	5341
55	9	30	97	221	452	661	812	801	582	288	82	22	9	39	136	357	809	1470	2282	3083	3665	3953	4035	4057
60	0	8	39	116	299	511	657	646	433	166	34	5	0	8	47	163	462	973	1630	2276	2709	2875	2909	2914
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	92	153	266	402	604	769	867	855	694	471	231	118	92	245	511	913	1517	2286	3153	4008	4702	5173	5404	5522

(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.
      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