

Climatography of the United States

No. 20

1971-2000

Station: DYERSBURG AP, TN

COOP ID: 402685

Climate Division: TN 4

NWS Call Sign:

Elevation: 337 Feet Lat: 36°01N Lon: 89°24W

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	45.9	30.8	38.4	78	1950	25	48.0	1990	-12	1985	20	25.3	1977	826	0	.0	.0	11.3	5.1	18.8	.4
Feb	52.3	34.9	43.6	80	1962	13	52.8	1976	-5	1951	2	29.5	1978	601	0	.0	.0	16.1	2.4	13.1	.1
Mar	61.9	43.3	52.6	85	1967	12	57.3	1976	6	1960	5	46.7	1996	395	9	.0	.0	26.5	.1	5.5	.0
Apr	71.4	51.4	61.4	93	1987	27	68.2	1981	26	1971	7	54.0	1997	164	57	.0	.2	29.5	.0	.8	.0
May	79.9	60.4	70.2	97	1962	17	76.1	1987	38+	1954	4	65.3	1997	39	198	.0	1.6	31.0	.0	.0	.0
Jun	87.7	68.2	78.0	105	1952	29	80.9	1998	46	1992	22	73.6	1974	0	388	.2	11.7	30.0	.0	.0	.0
Jul	90.6	71.7	81.2	104+	1952	27	86.6	1980	55+	1971	31	77.3	1996	0	502	.9	19.3	31.0	.0	.0	.0
Aug	89.3	69.6	79.5	104	1954	16	84.7	1983	49	1989	9	73.7	1992	0	448	.3	15.2	31.0	.0	.0	.0
Sep	83.1	62.3	72.7	103+	1954	4	77.9	1986	32+	1998	12	67.2	1974	17	247	@	5.2	30.0	.0	.1	.0
Oct	73.1	51.5	62.3	93	1953	2	68.2	1971	25	1952	29	57.1	1976	148	64	.0	.1	30.7	.0	.7	.0
Nov	60.0	42.7	51.4	84	1955	13	58.3	1985	6	1950	25	43.6	1976	420	10	.0	.0	23.3	@	6.1	.0
Dec	49.5	34.4	42.0	78	1951	31	51.6	1984	-7+	1989	22	31.3	2000	715	0	.0	.0	15.2	2.5	14.7	.1
Ann	70.4	51.8	61.1	105	Jun 1952	29	86.6	Jul 1980	-12	Jan 1985	20	25.3	Jan 1977	3325	1923	1.4	53.3	305.6	10.1	59.8	.6

+ 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: 1948-2001

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

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No. 20 1971-2000

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

Station: DYERSBURG AP, TN

COOP ID: 402685

Climate Division: TN 4

NWS Call Sign:

Elevation: 337 Feet Lat: 36°01N

Lon: 89°24W

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	3.79	3.66	5.40	1956	29	7.99	1974	.88	1983	10.1	6.4	2.7	.9	1.09	1.45	1.99	2.46	2.92	3.40	3.93	4.56	5.36	6.63	7.81
Feb	4.19	3.43	4.60	1962	27	11.68	1990	1.77	1977	8.9	6.6	2.9	1.2	1.29	1.68	2.28	2.79	3.28	3.80	4.36	5.02	5.88	7.22	8.45
Mar	4.69	4.51	7.77	1997	3	12.50	1975	1.17	1982	11.0	7.4	3.0	1.4	1.70	2.14	2.77	3.31	3.82	4.34	4.90	5.56	6.40	7.70	8.89
Apr	4.81	4.47	3.10	1994	28	9.08	1983	1.44	1992	9.9	7.3	3.5	1.5	1.67	2.12	2.78	3.34	3.87	4.42	5.02	5.71	6.61	7.98	9.25
May	4.74	4.62	3.68	1999	5	9.58	1984	1.89	1992	10.2	7.4	3.3	1.4	1.82	2.26	2.89	3.41	3.91	4.42	4.97	5.60	6.41	7.65	8.79
Jun	4.49	4.12	4.72	1981	6	11.29	1985	.60	1988	8.3	6.7	3.0	1.6	1.17	1.60	2.25	2.82	3.39	3.98	4.64	5.42	6.44	8.05	9.56
Jul	4.22	3.56	6.14	1964	29	12.06	1988	.06	1983	8.3	6.1	2.8	1.4	.45	.77	1.35	1.94	2.57	3.28	4.12	5.15	6.57	8.92	11.21
Aug	2.95	2.53	4.44	1964	15	9.10	1974	.02	1996	6.0	3.7	1.8	.9	.25	.45	.84	1.25	1.70	2.21	2.82	3.59	4.65	6.42	8.16
Sep	3.02	3.19	5.17	1965	11	8.49	1977	.03	1998	7.5	4.9	2.2	.8	.44	.69	1.12	1.54	1.98	2.46	3.01	3.69	4.60	6.09	7.52
Oct	3.45	3.11	3.75	1990	4	9.01	1984	.79	1982	6.5	4.7	2.5	.8	.91	1.24	1.74	2.18	2.61	3.06	3.57	4.17	4.94	6.17	7.32
Nov	4.87	5.02	4.15	1988	19	10.84	1988	1.25	1976	9.2	6.9	3.4	1.5	1.86	2.31	2.96	3.50	4.01	4.53	5.10	5.76	6.59	7.88	9.05
Dec	5.14	4.46	4.92	2001	17	15.69	1990	1.21	1976	9.8	6.9	3.2	1.5	1.04	1.51	2.26	2.95	3.65	4.40	5.24	6.26	7.60	9.76	11.80
Ann	50.36	49.68	7.77	Mar 1997	3	15.69	Dec 1990	.02	Aug 1996	105.7	75.0	34.3	14.9	38.30	40.70	43.74	46.02	48.04	49.98	51.96	54.15	56.78	60.57	63.82

+ 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

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

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Station: DYERSBURG AP, TN

COOP ID: 402685

Climate Division: TN 4

NWS Call Sign:

Elevation: 337 Feet

Lat: 36°01N

Lon: 89°24W

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	2.6	1.0	#	0	8.0	1988	7	11.5	1977	8+	1988	7	2	1977	1.2	1.0	.4	.2	.0	3.6	1.4	.6	.0
Feb	3.1	1.4	#	0	9.0	1979	7	14.5	1979	9+	1985	3	2+	1985	1.4	1.2	.4	.2	.0	2.6	1.0	.4	.0
Mar	.8	.0	#	0	3.5	1971	25	6.5	1971	3+	1991	30	#	1991	.3	.3	.2	.0	.0	.4	.1	.0	.0
Apr	#	.0	0	0	#	1992	9	#+	1992	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	#	2000	.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	1.0	1993	30	1.0	1993	1	1993	30	#	1993	.0	.0	.0	.0	.0	@	.0	.0	.0
Nov	.1	.0	0	0	3.0	1976	14	3.0	1976	#+	1995	15	0	0	.0	.0	@	.0	.0	.0	.0	.0	.0
Dec	.6	.0	#	0	4.0	1992	25	4.0+	1997	3	1997	29	#	1997	.4	.2	.1	.0	.0	.5	@	.0	.0
Ann	7.2	2.4	N/A	N/A	9.0	Feb 1979	7	14.5	Feb 1979	9+	Feb 1985	3	2+	Feb 1985	3.3	2.7	1.1	.4	.0	7.1	2.5	1.0	.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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NWS Call Sign:

Elevation: 337 Feet

Lat: 36°01N

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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	4/16	4/13	4/10	4/07	4/04	4/01	3/29	3/24
32	4/15	4/09	4/05	4/01	3/29	3/26	3/22	3/18	3/12
28	3/30	3/24	3/19	3/15	3/11	3/07	3/03	2/26	2/20
24	3/24	3/14	3/06	2/27	2/21	2/15	2/08	2/01	1/21
20	3/03	2/25	2/20	2/15	2/11	2/07	2/03	1/28	1/17
16	2/27	2/18	2/12	2/07	2/01	1/27	1/21	1/14	12/31
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	10/04	10/10	10/14	10/17	10/21	10/24	10/28	11/01	11/07
32	10/16	10/23	10/28	11/01	11/05	11/09	11/13	11/18	11/25
28	10/26	11/02	11/07	11/11	11/15	11/18	11/22	11/27	12/04
24	11/12	11/19	11/25	11/29	12/04	12/08	12/12	12/18	12/25
20	11/17	11/27	12/04	12/10	12/15	12/21	12/28	1/05	1/20
16	12/07	12/14	12/20	12/25	12/29	1/03	1/08	1/15	1/27
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	211	205	201	196	191	186	181	173
32	251	240	233	226	220	214	208	200	190
28	276	266	259	253	248	242	236	229	219
24	321	306	297	289	282	275	268	259	247
20	>365	342	324	314	306	299	291	283	271
16	>365	>365	349	336	328	321	313	306	295

* 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: TN 4 NWS Call Sign: Elevation: 337 Feet Lat: 36°01N Lon: 89°24W

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	826	601	395	164	39	0	0	0	17	148	420	715	3325
60	679	471	260	83	11	0	0	0	3	70	290	568	2435
57	592	395	194	48	5	0	0	0	1	40	223	482	1980
55	535	347	155	31	2	0	0	0	0	26	184	426	1706
50	401	241	80	9	0	0	0	0	0	7	104	299	1141
32	83	28	1	0	0	0	0	0	0	0	3	38	153

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	280	352	639	883	1182	1377	1525	1471	1221	939	582	346	10797
55	19	26	80	224	471	687	812	758	531	252	73	21	3954
57	14	19	56	181	412	627	750	696	471	204	53	15	3498
60	8	11	30	125	326	537	657	603	384	141	29	8	2859
65	0	0	9	57	198	388	502	448	247	64	10	0	1923
70	0	0	1	19	101	242	347	297	136	21	1	0	1165

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	106	185	391	631	924	1138	1276	1220	975	678	344	154	106	291	682	1313	2237	3375	4651	5871	6846	7524	7868	8022
45	55	108	259	485	769	988	1121	1065	825	524	231	84	55	163	422	907	1676	2664	3785	4850	5675	6199	6430	6514
50	27	57	155	347	614	838	966	910	675	376	141	41	27	84	239	586	1200	2038	3004	3914	4589	4965	5106	5147
55	4	24	82	223	459	688	811	755	526	245	69	16	4	28	110	333	792	1480	2291	3046	3572	3817	3886	3902
60	0	3	36	127	313	538	656	600	380	139	30	1	0	3	39	166	479	1017	1673	2273	2653	2792	2822	2823
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	53	101	220	387	617	792	890	851	654	428	186	76	53	154	374	761	1378	2170	3060	3911	4565	4993	5179	5255

(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