Station: BARTLESVILLE 2 W, OK

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

COOP ID: 340548

Climate Division: OK 3 NWS Call Sign: BVO Elevation: 715 Feet Lat: 36°45N Lon: 96°00W

									r	Гетре	eratur	re (°F)									
	Mea	n (1)						Extr	emes						Days (1) emp 65		Mean	Numb	er of I	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	47.0	23.7	35.4	79	1950	25	43.8	1990	-15	1949	30	23.5	1979	919	0	.0	.0	13.9	4.6	24.3	.7
Feb	53.6	28.6	41.1	91+	1962	12	51.5	1976	-15	1996	4	29.5	1978	673	0	.0	@	16.8	2.9	18.3	.4
Mar	63.7	38.0	50.9	94	1974	31	55.5	1974	-8	1948	12	44.8	1996	441	1	.0	.1	26.7	.3	10.3	.0
Apr	73.5	47.5	60.5	104	1972	12	68.6	1981	9	1957	13	54.2	1983	176	41	@	.7	29.7	.0	1.7	.0
May	80.5	56.9	68.7	96+	1953	31	73.2	1987	30+	1954	4	64.4	1976	40	155	.0	2.2	31.0	.0	@	.0
Jun	88.8	65.5	77.2	104	1980	27	81.2	1990	41	1956	2	73.3	1992	1	365	.5	14.3	30.0	.0	.0	.0
Jul	94.5	69.9	82.2	115	1954	14	89.1	1980	48	1971	31	79.0	1989	0	533	5.2	24.8	31.0	.0	.0	.0
Aug	94.0	67.8	80.9	111+	1970	8	86.7	1983	46+	1949	22	74.5	1992	1	495	6.1	23.7	31.0	.0	.0	.0
Sep	85.3	60.1	72.7	109+	2000	1	80.1	1998	29	1995	23	65.1	1974	28	259	1.2	10.0	30.0	.0	.2	.0
Oct	74.9	48.3	61.6	97	1963	8	65.4	1973	16	1993	31	55.8	1976	149	42	.0	1.0	30.7	.0	1.9	.0
Nov	60.5	37.0	48.8	86	1989	11	56.3	1999	3	1976	29	42.5	1976	491	3	.0	.0	24.2	.2	11.0	.0
Dec	49.6	27.3	38.5	80+	1948	14	44.2	1982	-13	1989	23	25.2	1983	824	0	.0	.0	16.0	2.8	21.4	.4
					Jul			Jul		Feb			Jan								
Ann	72.2	47.6	59.9	115	1954	14	89.1	1980	-15+	1996	4	23.5	1979	3743	1894	13.0	76.8	311.0	10.8	89.1	1.5

⁺ Also occurred on an earlier date(s)

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

Issue Date: February 2004 010-A

[@] Denotes mean number of days greater than 0 but less than .05

⁽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: BARTLESVILLE 2 W, OK

COOP ID: 340548

Climate Division: OK 3 NWS Call Sign: BVO Elevation: 715 Feet Lat: 36°45N Lon: 96°00W

										Pı	recipi	tation	(incl	nes)										
		ans/	P	recip	itatio	on Total Extremes					ean N of D	ays (3)	Proba		M	nonthly/	annual j indic	precipitation	babilit ation will nount vs Probal incomplet	ll be equ	els		ın the
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	1.44	1.21	1.84	1975	31	4.18	1973	.00+	1986	6.3	3.2	.9	.3	.00	.16	.42	.65	.89	1.15	1.44	1.79	2.28	3.07	3.84
Feb	1.93	1.54	4.44	1985	23	6.87	1985	.04	1991	5.7	3.4	1.3	.3	.18	.32	.58	.85	1.14	1.47	1.87	2.36	3.03	4.16	5.26
Mar	3.43	3.00	3.10	1974	11	8.83	1973	.24	1971	8.4	5.8	2.5	1.1	.59	.89	1.39	1.86	2.34	2.86	3.46	4.18	5.15	6.71	8.20
Apr	3.84	3.82	3.57	1994	11	9.66	1995	.13	1989	8.4	5.9	2.7	1.1	.80	1.15	1.71	2.23	2.74	3.30	3.92	4.67	5.66	7.24	8.74
May	4.76	4.31	4.85	2000	9	10.31	2000	.83	1994	10.3	7.4	3.4	1.5	1.21	1.66	2.35	2.97	3.57	4.20	4.91	5.75	6.85	8.58	10.20
Jun	4.50	3.49	4.55	1957	12	15.06	1995	.38	1988	8.8	6.1	3.1	1.3	.91	1.32	1.98	2.58	3.19	3.84	4.58	5.47	6.64	8.52	10.31
Jul	3.03	2.94	5.15	1986	13	7.41	1994	.04	1980	6.5	4.6	2.0	.8	.25	.45	.85	1.27	1.73	2.26	2.89	3.69	4.79	6.63	8.45
Aug	2.86	2.56	5.50	1986	8	7.90	1977	.13	2000	6.6	4.4	1.8	.9	.40	.63	1.04	1.44	1.85	2.31	2.84	3.49	4.36	5.79	7.17
Sep	4.42	3.88	7.07	1986	30	14.61	1986	.29	2000	7.5	5.5	2.5	1.4	.67	1.04	1.68	2.29	2.93	3.62	4.42	5.40	6.71	8.84	10.89
Oct	3.51	3.19	4.25	1972	22	7.59	1986	.34	1978	6.9	4.6	2.3	1.1	.58	.88	1.40	1.88	2.38	2.92	3.54	4.29	5.29	6.93	8.49
Nov	3.21	3.36	4.01	1979	21	6.61	1985	.00	1976	6.5	4.2	2.2	1.0	.15	.43	.90	1.37	1.88	2.45	3.12	3.95	5.09	6.98	8.83
Dec	2.06	1.62	3.47	1991	20	5.72	1991	.16	1981	5.7	3.7	1.5	.5	.16	.30	.57	.85	1.17	1.53	1.96	2.50	3.25	4.52	5.76
Ann	38.99	37.98	7.07	Sep 1986	30	15.06	Jun 1995	.00+	Jan 1986	87.6	58.8	26.2	11.3	25.85	28.33	31.53	33.99	36.19	38.33	40.56	43.03	46.05	50.46	54.30

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

[#] 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

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

COOP ID: 340548

Lon: 96°00W

Station: BARTLESVILLE 2 W, OK

Climate Division: OK 3 NWS Call Sign: BVO Elevation: 715 Feet Lat: 36°45N

										Snov	w (incl	hes)											
						Sno	ow To	tals									Mea	n Nu	mber	of Day	ys (1)		-
	Mean	s/Medi	ans (1))					Extre	mes (2)							ow Fa				Snow = Thr	_	
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	3.1	1.6	#	0	6.5	1988	7	10.5	1988	11	1988	7	3	1979	2.1	1.1	.4	.1	.0	4.2	1.8	.8	.1
Feb	2.4	.5	#	0	7.5	1982	9	12.5	1978	9	1980	8	1+	1993	1.4	.9	.2	.1	.0	2.5	1.2	.4	.0
Mar	1.4	.0	#	0	8.0	1994	9	10.0	1994	5+	1999	14	#	2000	.7	.4	.2	.1	.0	.4	.2	.1	.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	#	1997	.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	#	1996	22	#	1996	#	1996	22	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.5	.0	#	0	4.0	1971	23	4.6	1972	4	1971	23	#	1995	.5	.1	.1	.0	.0	.2	@	.0	.0
Dec	.9	.0	#	0	8.0	2000	13	8.0	2000	10	2000	14	3	2000	.9	.4	.1	.1	.0	2.2	.8	.3	@
Ann	8.3	2.1	N/A	N/A	8.0+	Dec 2000	13	12.5	Feb 1978	11	Jan 1988	7	3+	Dec 2000	5.6	2.9	1.0	.4	.0	9.5	4.0	1.6	.1

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

- (1) Derived from Snow Climatology and 1971-2000 daily data
- (2) Derived from 1971-2000 daily data

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

[@] 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

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Climate Division: OK 3 NWS Call Sign: BVO Elevation: 715 Feet Lat: 36°45N Lon: 96°00W

				Freez	e Data				
			Spri	ng Freeze D	ates (Month/	(Day)			
Temp (F)		P	robability of	later date i	n spring (thr	u Jul 31) tha	n indicated((*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	5/02	4/27	4/23	4/20	4/18	4/15	4/12	4/09	4/04
32	4/19	4/15	4/11	4/08	4/06	4/03	3/31	3/28	3/23
28	4/11	4/06	4/02	3/30	3/27	3/24	3/21	3/17	3/12
24	4/02	3/27	3/23	3/19	3/15	3/12	3/08	3/04	2/25
20	3/27	3/18	3/12	3/07	3/02	2/25	2/20	2/14	2/06
16	3/12	3/05	2/27	2/23	2/18	2/14	2/09	2/04	1/27
			Fal	l Freeze Da	tes (Month/D	ay)		II.	
Toman (E)		Pro	bability of ea	arlier date i	n fall (beginn	ing Aug 1) t	han indicate	ed(*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	9/25	9/29	10/03	10/06	10/08	10/11	10/14	10/17	10/22
32	10/03	10/09	10/14	10/18	10/22	10/26	10/30	11/03	11/10
28	10/20	10/25	10/29	11/01	11/04	11/07	11/10	11/13	11/19
24	10/30	11/05	11/09	11/13	11/16	11/19	11/23	11/27	12/03
20	11/02	11/10	11/15	11/20	11/24	11/28	12/03	12/08	12/15
16	11/10	11/20	11/27	12/03	12/09	12/15	12/21	12/29	1/08
-		1	•	Freeze F	ree Period	1	1	II.	1
Tomp (E)			Probability	of longer th	an indicated	freeze free p	eriod (Days))	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	194	187	182	177	173	168	164	159	151
32	221	213	208	203	199	194	189	184	176
28	244	236	230	225	221	216	212	206	198
24	268	260	254	249	245	240	236	230	222
20	299	288	279	272	266	259	252	244	233
16	327	313	304	297	291	284	277	269	258

^{*} 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.

Complete documentation available from:

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COOP ID: 340548

Station: BARTLESVILLE 2 W, OK

Climate Division: OK 3 NWS Call Sign: BVO Elevation: 715 Feet Lat: 36°45N Lon: 96°00W

				Deg	ree Days t	o Selected	Base Tem	peratures	(°F)				
Base						Heatin	g Degree l	Days (1)					
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	919	673	441	176	40	1	0	1	28	149	491	824	3743
60	765	543	299	88	10	0	0	0	8	62	354	673	2802
57	674	466	223	50	3	0	0	0	3	32	279	585	2315
55	614	417	179	32	1	0	0	0	0	19	234	528	2024
50	472	306	94	8	0	0	0	0	0	4	142	392	1418
32	104	57	2	0	0	0	0	0	0	0	7	72	242

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	208	311	585	855	1138	1354	1556	1517	1221	916	510	271	10442
55	5	27	49	197	426	664	843	804	531	222	47	14	3829
57	2	20	31	155	366	604	781	742	474	173	31	9	3388
60	1	13	15	102	280	514	688	649	389	110	16	4	2781
65	0	0	1	41	155	365	533	495	259	42	3	0	1894
70	0	0	0	11	67	226	378	344	155	10	0	0	1191

										Gro	wing l	Degre	e Uni	ts (2)										
Base					Growing	g Degree	Units (N	Ionthly)					Growing Degree Units (Accumulated Monthly)											
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov I													Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	75 166 365 622 893 1115 1311 1273 988 672 299												75	241	606	1228	2121	3236	4547	5820	6808	7480	7779	7878
45	30 96 245 475 738 965 1156 1118 838 520 192											53	30	126	371	846	1584	2549	3705	4823	5661	6181	6373	6426
50	8	47	144	333	584	815	1001	963	688	374	108	22	8	55	199	532	1116	1931	2932	3895	4583	4957	5065	5087
55	1	19	76	212	431	665	846	808	541	241	53	6	1	20	96	308	739	1404	2250	3058	3599	3840	3893	3899
60	0	6	33	117	281	515	691	653	397	140	18	0	0	6	39	156	437	952	1643	2296	2693	2833	2851	2851
Base	e Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)			
50/86	0/86 65 127 245 398 589 760 870 835 650 436 188 7												65	192	437	835	1424	2184	3054	3889	4539	4975	5163	5240

(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

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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