U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

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: DURANT, OK **COOP ID: 342678**

Climate Division: OK 8 **NWS Call Sign:** **Elevation: 600 Feet** **Lat: 34˚00N** **Lon: 96˚22W**

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	27.6	39.4	89	1911	31	46.7	1990	-11	1918	12	28.5	1978	795	0	.0	.0	18.1	2.7	21.3	.2
Feb	57.3	32.1	44.7	93+	1918	24	54.0	1976	-4	1951	2	30.2	1978	578	0	.0	.1	20.2	1.9	13.4	@
Mar	65.0	40.0	52.5	99	1907	19	57.8	1974	7	1943	3	46.7	1975	393	6	.0	.1	28.0	.1	6.1	.0
Apr	73.0	48.3	60.7	98	1925	16	65.2	1981	25+	1920	5	53.1	1983	171	40	.0	.5	29.9	.0	.9	.0
May	79.9	58.4	69.2	103	1927	28	74.9	1996	33	1903	1	64.5	1983	43	171	.0	2.4	31.0	.0	.0	.0
Jun	87.8	66.6	77.2	112	1980	28	82.1	1998	45+	1922	6	71.7	1983	1	366	.5	15.1	30.0	.0	.0	.0
Jul	93.4	70.6	82.0	111+	1954	11	87.9	1998	42	1905	9	77.7	1976	0	526	4.2	25.6	31.0	.0	.0	.0
Aug	93.6	68.8	81.2	118	1936	10	85.9	1980	50	1906	28	75.2	1992	0	502	4.8	24.7	31.0	.0	.0	.0
Sep	86.4	61.4	73.9	111	1951	2	81.0	1998	34	1942	27	65.6	1974	16	282	1.5	12.3	30.0	.0	.0	.0
Oct	76.6	49.8	63.2	100	1938	1	66.6	1971	16	1917	30	56.1	1976	120	64	.0	1.9	30.8	.0	.9	.0
Nov	63.1	39.2	51.2	88	1952	17	57.4	1999	9	1950	11	44.5	1972	422	6	.0	.0	25.9	.1	7.5	.0
Dec	54.1	30.4	42.3	87	1955	24	49.8	1984	-7	1989	23	28.2	1983	705	0	.0	.0	21.2	1.4	17.5	.2
Ann	73.4	49.4	61.5	118	Aug 1936	10	87.9	Jul 1998	-11	Jan 1918	12	28.2	Dec 1983	3244	1963	11.0	82.7	327.1	6.2	67.6	.4

\+ 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

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1901-2001

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

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	2.23	2.11	3.82	1916	27	6.77	1998	.08	1986
Feb	2.66	2.62	3.15	1938	17	6.17	1997	.07	1996
Mar	3.85	3.34	3.20	1934	1	9.83	1990	.98	1972
Apr	4.12	3.56	5.15	1917	28	12.71	1990	.29	1987
May	6.16	6.03	7.50	1993	10	12.57	1982	.69	1996
Jun	5.49	5.13	6.20	1945	17	12.52	1991	1.59	1977
Jul	2.79	2.00	5.35	1903	3	8.71	1992	.01	1993
Aug	2.80	2.05	7.40	1926	17	9.45	1996	.00+	2000
Sep	4.74	4.64	5.80	1973	6	11.45	1973	.25	1997
Oct	4.69	3.87	5.35	1974	31	17.79	1981	.15	1978
Nov	3.67	3.42	4.14	1934	19	8.02	1978	.15	1989
Dec	3.09	2.59	5.83	1927	13	8.20	1997	.27	1981
Ann	46.29	47.10	7.50	May 1993	10	17.79	Oct 1981	.00+	Aug 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	6.5	3.5	1.5	.5
Feb	6.4	4.3	1.9	.7
Mar	8.3	5.4	2.7	1.0
Apr	7.3	5.5	2.3	1.0
May	9.7	7.2	3.5	2.0
Jun	7.6	5.7	3.1	1.7
Jul	5.1	3.5	1.6	.9
Aug	5.4	3.5	1.4	.8
Sep	7.5	5.0	2.7	1.3
Oct	6.8	5.0	2.5	1.5
Nov	6.9	5.3	2.4	1.2
Dec	6.7	4.4	2.0	.8
Ann	84.2	58.3	27.6	13.4

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.25	.42	.73	1.04	1.37	1.75	2.18	2.72	3.45	4.66	5.84
Feb	.38	.60	.98	1.35	1.74	2.16	2.65	3.25	4.07	5.39	6.67
Mar	1.11	1.47	2.02	2.50	2.97	3.46	3.99	4.63	5.45	6.74	7.93
Apr	.72	1.08	1.68	2.25	2.82	3.45	4.16	5.03	6.19	8.05	9.83
May	1.48	2.06	2.96	3.76	4.56	5.40	6.34	7.47	8.94	11.27	13.46
Jun	1.40	1.92	2.72	3.42	4.12	4.85	5.66	6.63	7.89	9.89	11.75
Jul	.11	.24	.54	.90	1.33	1.85	2.49	3.33	4.53	6.60	8.69
Aug	.00	.27	.76	1.20	1.66	2.17	2.76	3.48	4.46	6.09	7.66
Sep	.66	1.04	1.72	2.38	3.07	3.84	4.72	5.80	7.25	9.64	11.94
Oct	.43	.76	1.39	2.04	2.75	3.56	4.52	5.72	7.37	10.13	12.83
Nov	.75	1.09	1.63	2.12	2.61	3.14	3.74	4.46	5.41	6.93	8.37
Dec	.39	.64	1.08	1.51	1.96	2.47	3.06	3.78	4.76	6.37	7.93
Ann	31.79	34.56	38.13	40.85	43.28	45.64	48.08	50.79	54.08	58.88	63.04

\+ 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: 1901-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

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	1.1	.1	#	0	6.0	1988	7	6.0	1988	3	1973	12	1	1973	.5	.5	.1	.1	.0	.1	.0	.0	.0
Feb	3.1	.0	#	0	12.0	1979	7	18.6	1978	1	1983	5	#	1983	.7	.7	.3	.2	.1	.1	.0	.0	.0
Mar	.2	.0	#	0	2.0	1975	13	2.0	1975	2	1975	13	#+	1998	.2	.1	.0	.0	.0	.1	.0	.0	.0
Apr	.0	.0	#	0	.0	0	0	.0	0	#	1998	27	#	1998	.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	1.0	1972	21	1.5	1972	1	1972	30	#	1972	.1	.1	.0	.0	.0	.1	.0	.0	.0
Dec	.5	.0	#	0	5.5	1983	16	5.5+	1983	4+	2000	31	#+	2000	.2	.2	.1	.1	.0	.1	.0	.0	.0
Ann	5.0	.1	N/A	N/A	12.0	Feb 1979	7	18.6	Feb 1978	4+	Dec 2000	31	1	Jan 1973	1.7	1.6	.5	.4	.1	.5	.0	.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

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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	4/23	4/18	4/15	4/12	4/09	4/06	4/03	3/31	3/26
32	4/14	4/08	4/04	4/01	3/28	3/25	3/21	3/17	3/12
28	4/07	3/30	3/24	3/19	3/15	3/10	3/05	2/27	2/20
24	3/23	3/15	3/09	3/04	2/27	2/23	2/18	2/12	2/03
20	3/11	3/03	2/24	2/19	2/14	2/09	2/04	1/29	1/20
16	2/27	2/18	2/12	2/06	2/01	1/26	1/19	1/08	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	10/11	10/16	10/20	10/23	10/26	10/29	11/02	11/05	11/11
32	10/15	10/22	10/27	10/31	11/04	11/08	11/13	11/18	11/25
28	10/26	11/03	11/08	11/13	11/18	11/22	11/27	12/02	12/10
24	11/08	11/16	11/22	11/26	12/01	12/05	12/10	12/16	12/23
20	11/10	11/22	11/30	12/08	12/15	12/22	12/29	1/07	1/19
16	12/02	12/11	12/18	12/24	12/29	1/05	1/12	1/23	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	222	215	209	204	200	195	190	185	177
32	246	237	231	225	220	215	210	203	195
28	283	271	262	254	247	240	232	224	211
24	309	298	289	282	276	269	262	254	242
20	352	329	317	307	299	291	282	272	258
16	>365	>365	>365	351	337	326	315	304	290

***** 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

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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	795	578	393	171	43	1	0	0	16	120	422	705	3244
60	643	449	254	83	12	0	0	0	3	49	290	554	2337
57	557	377	184	46	5	0	0	0	0	25	221	468	1883
55	499	333	145	28	2	0	0	0	0	14	181	412	1614
50	363	236	70	6	0	0	0	0	0	3	100	283	1061
32	56	33	1	0	0	0	0	0	0	0	2	27	119

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	284	388	637	859	1151	1355	1549	1525	1256	967	576	345	10892
55	14	44	67	198	440	665	836	812	566	268	65	17	3992
57	10	33	44	155	380	605	774	750	506	217	45	11	3530
60	4	21	21	102	295	515	681	657	419	148	24	4	2891
65	0	0	6	40	171	366	526	502	282	64	6	0	1963
70	0	0	0	11	80	224	371	351	168	20	0	0	1225

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	127	233	435	658	932	1141	1318	1297	1037	736	369	166	127	360	795	1453	2385	3526	4844	6141	7178	7914	8283	8449
45	59	140	305	509	777	991	1163	1142	887	582	246	86	59	199	504	1013	1790	2781	3944	5086	5973	6555	6801	6887
50	24	72	191	368	622	841	1008	987	737	435	148	34	24	96	287	655	1277	2118	3126	4113	4850	5285	5433	5467
55	4	32	102	236	471	691	853	832	589	294	77	11	4	36	138	374	845	1536	2389	3221	3810	4104	4181	4192
60	0	6	43	127	321	541	698	677	445	171	31	0	0	6	49	176	497	1038	1736	2413	2858	3029	3060	3060
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	90	155	274	417	622	784	881	861	690	475	224	114	90	245	519	936	1558	2342	3223	4084	4774	5249	5473	5587

(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