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: ERICK, OK **COOP ID: 342944**

Climate Division: OK 4 **NWS Call Sign:** **Elevation: 2,060 Feet** **Lat: 35˚13N** **Lon: 99˚52W**

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	48.9	20.9	34.9	85	1952	25	42.3	1990	-10	1966	23	23.3	1979	934	0	.0	.0	17.7	3.9	27.0	.3
Feb	54.9	25.5	40.2	93	1996	22	48.3	1976	-4	1996	3	27.7	1978	693	0	.0	@	19.7	2.0	18.6	.3
Mar	62.9	32.7	47.8	99	1971	27	53.2	1974	-3	1960	3	42.8	1996	533	0	.0	.3	27.6	.2	10.9	@
Apr	72.1	42.7	57.4	100+	1972	12	62.6	1981	19	1975	3	52.0	1997	248	21	.1	1.6	29.5	.0	2.2	.0
May	79.5	53.1	66.3	107	1953	23	73.6	1996	29	1954	3	61.4	1976	79	119	.6	5.3	31.0	.0	@	.0
Jun	88.4	63.0	75.7	115	1953	14	80.1	1998	43+	1964	1	71.4	1982	4	326	2.5	15.7	30.0	.0	.0	.0
Jul	94.3	67.1	80.7	112	1954	25	87.6	1980	50+	1952	9	76.6	1975	0	486	8.7	25.9	31.0	.0	.0	.0
Aug	93.0	65.7	79.4	110+	1951	6	84.9	1983	48	1961	24	73.8	1992	1	445	6.1	23.7	31.0	.0	.0	.0
Sep	85.3	57.8	71.6	108+	2000	3	78.8	1998	27	1984	30	65.1	1974	29	225	1.8	12.3	30.0	.0	.1	.0
Oct	74.4	45.3	59.9	102	2000	4	63.2	1998	13	1993	31	53.8	1976	182	22	@	2.0	30.7	@	1.5	.0
Nov	60.5	32.6	46.6	90	1980	7	53.9	1999	8+	1959	17	40.5	1972	554	0	.0	@	24.7	.2	12.6	.0
Dec	50.4	23.5	37.0	89	1955	24	41.7	1980	-9	1989	23	24.3	1983	869	0	.0	.0	19.4	2.3	24.7	.3
Ann	72.1	44.2	58.1	115	Jun 1953	14	87.6	Jul 1980	-10	Jan 1966	23	23.3	Jan 1979	4126	1644	19.8	86.8	322.3	8.6	97.6	.9

\+ 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: 1948-2001

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

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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	.65	.63	1.08	1949	9	1.72	1999	.00+	1996
Feb	.94	.78	2.00	1964	4	3.15	1997	.00+	1995
Mar	2.06	1.98	2.72	2000	23	6.95	1973	.00	1972
Apr	2.19	1.80	2.82	1967	12	7.74	1997	.00+	1996
May	4.56	4.21	5.12	1977	17	14.00	1977	.20	1984
Jun	3.59	3.55	3.71	1964	14	10.23	1989	.06	1998
Jul	1.83	1.36	3.60	1992	27	6.08	1992	.00	1974
Aug	2.56	2.02	3.28	1995	3	7.14	1995	.00	2000
Sep	3.08	2.08	3.85	1996	15	8.26+	1996	.01	2000
Oct	2.39	1.74	5.94	1986	3	10.02	1986	.00	1992
Nov	1.34	1.27	3.40	1975	2	4.38	1975	.00+	1999
Dec	.93	.58	2.20	1984	16	3.76	1984	.00+	1979
Ann	26.12	25.35	5.94	Oct 1986	3	14.00	May 1977	.00+	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.9	1.8	.2	.0
Feb	3.6	2.3	.5	.1
Mar	4.7	3.7	1.5	.5
Apr	4.9	3.9	1.6	.6
May	7.4	6.1	3.1	1.4
Jun	6.8	5.6	2.5	1.1
Jul	4.3	3.6	1.2	.4
Aug	5.2	4.3	1.9	.6
Sep	5.0	4.3	2.1	1.1
Oct	4.3	3.3	1.5	.7
Nov	3.7	2.8	.8	.2
Dec	3.5	2.3	.5	.1
Ann	56.3	44.0	17.4	6.8

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	.00	.00	.21	.33	.44	.55	.68	.83	1.03	1.35	1.66
Feb	.00	.05	.18	.32	.47	.65	.87	1.14	1.53	2.18	2.83
Mar	.05	.17	.44	.72	1.05	1.44	1.91	2.50	3.34	4.77	6.18
Apr	.00	.00	.69	1.08	1.44	1.83	2.27	2.79	3.46	4.55	5.60
May	.65	1.03	1.68	2.32	2.98	3.70	4.54	5.57	6.96	9.22	11.39
Jun	.44	.72	1.23	1.73	2.26	2.85	3.53	4.38	5.53	7.42	9.26
Jul	.09	.25	.52	.79	1.08	1.40	1.78	2.25	2.89	3.95	4.99
Aug	.07	.24	.58	.94	1.35	1.83	2.39	3.12	4.13	5.83	7.52
Sep	.06	.16	.43	.79	1.25	1.82	2.57	3.58	5.05	7.67	10.36
Oct	.10	.29	.64	.99	1.37	1.80	2.30	2.94	3.81	5.27	6.69
Nov	.00	.00	.36	.60	.83	1.08	1.36	1.70	2.14	2.88	3.59
Dec	.00	.02	.12	.25	.40	.58	.81	1.11	1.55	2.30	3.06
Ann	17.32	18.97	21.12	22.77	24.24	25.68	27.17	28.82	30.85	33.80	36.38

\+ 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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Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	3.1	1.8	#	#
Feb	2.6	1.0	#	#
Mar	.9	.0	#	0
Apr	.2	.0	#	0
May	.0	.0	0	0
Jun	.0	.0	0	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.0	.0	0	0
Oct	.1	.0	#	0
Nov	1.1	.0	#	0
Dec	2.5	.8	#	#
Ann	10.5	3.6	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	7.0	1987	18	15.5	1987	14	1987	19	2	1988
Feb	9.0	1979	7	10.7	1975	9	1979	7	1	1986
Mar	6.0	1994	9	7.5	1994	6	1994	9	#+	2000
Apr	3.0	1973	8	3.5	1973	3	1973	8	#+	2000
May	.0	0	0	.0	0	0	0	0	0	0
Jun	.0	0	0	.0	0	0	0	0	0	0
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	.0	0	0	.0	0	0	0	0	0	0
Oct	1.5	1991	31	1.5	1991	2	1991	31	#	1991
Nov	6.0	1988	20	14.2	1972	6	1988	20	#+	2000
Dec	8.0	1971	3	14.9	1987	9	1971	3	2	1987
Ann	9.0	Feb 1979	7	15.5	Jan 1987	14	Jan 1987	19	2+	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.6	1.1	.4	.2	.0
Feb	1.4	.9	.3	.1	.0
Mar	.5	.4	.1	@	.0
Apr	.1	.1	@	.0	.0
May	.0	.0	.0	.0	.0
Jun	.0	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.0	.0	.0	.0	.0
Oct	@	@	.0	.0	.0
Nov	.5	.3	.2	.1	.0
Dec	1.3	.9	.2	.1	.0
Ann	5.4	3.7	1.2	.5	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	2.9	1.2	.7	.1
Feb	2.2	.8	.2	.0
Mar	.4	.2	@	.0
Apr	.1	@	.0	.0
May	.0	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.0	.0	.0	.0
Oct	@	.0	.0	.0
Nov	.4	.2	@	.0
Dec	1.9	.5	.3	.0
Ann	7.9	2.9	1.2	.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	5/06	5/01	4/27	4/24	4/21	4/18	4/14	4/10	4/05
32	4/20	4/15	4/12	4/09	4/07	4/04	4/01	3/29	3/25
28	4/12	4/08	4/05	4/02	3/31	3/28	3/26	3/23	3/19
24	4/07	3/31	3/25	3/21	3/16	3/12	3/08	3/02	2/23
20	3/27	3/18	3/13	3/07	3/03	2/26	2/21	2/15	2/07
16	3/13	3/04	2/27	2/22	2/17	2/12	2/07	2/01	1/24

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	9/25	9/30	10/04	10/07	10/10	10/13	10/17	10/20	10/26
32	10/04	10/11	10/16	10/20	10/24	10/27	10/31	11/05	11/12
28	10/15	10/22	10/27	10/31	11/04	11/08	11/12	11/17	11/23
24	10/25	10/31	11/05	11/09	11/12	11/16	11/20	11/25	12/01
20	11/05	11/13	11/18	11/23	11/27	12/02	12/06	12/12	12/19
16	11/13	11/24	12/02	12/08	12/15	12/21	12/27	1/04	1/15

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	194	187	181	176	172	168	163	157	150
32	223	215	209	204	199	194	189	183	175
28	241	233	227	222	217	212	207	201	193
24	267	258	251	246	240	235	229	223	213
20	301	290	282	275	269	262	255	247	236
16	337	322	313	305	298	291	284	275	263

***** 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)

Base — Heating Degree Days (1)

Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	934	693	533	248	79	4	0	1	29	182	554	869	4126
60	779	560	380	140	28	0	0	0	7	79	409	714	3096
57	687	482	294	90	13	0	0	0	2	40	327	621	2556
55	627	431	240	63	7	0	0	0	0	24	275	561	2228
50	482	313	129	20	1	0	0	0	0	4	167	417	1533
32	102	52	2	0	0	0	0	0	0	0	7	63	226

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	192	283	492	762	1063	1311	1509	1467	1186	863	443	217	9788
55	3	17	17	135	357	621	796	754	496	174	21	2	3393
57	1	12	9	102	301	561	734	692	439	128	13	0	2992
60	0	7	2	62	224	472	641	599	354	73	5	0	2439
65	0	0	0	21	119	326	486	445	225	22	0	0	1644
70	0	0	0	5	49	195	335	296	126	4	0	0	1010

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	90	178	356	589	877	1103	1301	1252	987	669	282	102	90	268	624	1213	2090	3193	4494	5746	6733	7402	7684	7786
45	39	94	232	443	723	953	1146	1097	837	518	177	43	39	133	365	808	1531	2484	3630	4727	5564	6082	6259	6302
50	8	44	127	307	568	803	991	942	687	371	92	14	8	52	179	486	1054	1857	2848	3790	4477	4848	4940	4954
55	0	15	58	184	418	653	836	787	540	237	38	1	0	15	73	257	675	1328	2164	2951	3491	3728	3766	3767
60	0	3	23	93	272	503	681	632	398	128	10	0	0	3	26	119	391	894	1575	2207	2605	2733	2743	2743
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	94	153	258	386	566	729	840	811	637	434	203	100	94	247	505	891	1457	2186	3026	3837	4474	4908	5111	5211

(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