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: REYDON 2 SSE, OK **COOP ID: 347579**

Climate Division: OK 4 **NWS Call Sign:** **Elevation: 2,385 Feet** **Lat: 35˚38N** **Lon: 99˚55W**

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	47.9	21.2	34.6	83	1952	25	42.5	1986	-16	1984	19	22.2	1979	944	0	.0	.0	16.4	4.3	26.4	.5
Feb	54.5	26.1	40.3	89	1962	11	48.5	1976	-11	1951	1	27.8	1978	693	0	.0	.0	19.0	2.3	18.2	.3
Mar	62.7	33.0	47.9	98	1971	27	53.0	1974	-6+	1948	11	42.1	1998	533	0	.0	.3	26.8	.5	11.5	.0
Apr	72.3	42.9	57.6	101	1989	23	64.6	1981	19+	1997	12	49.9	1997	256	33	@	1.4	29.3	.0	2.6	.0
May	79.5	52.9	66.2	105	1996	24	71.3	1974	30	1954	3	61.5	1976	71	108	.4	3.9	31.0	.0	.1	.0
Jun	88.2	63.0	75.6	109+	1981	9	80.0	1994	43	1998	6	70.3	1989	8	325	1.4	13.7	30.0	.0	.0	.0
Jul	94.2	66.9	80.6	110	1986	28	85.8	1980	47+	1950	14	76.6	1975	0	483	5.3	24.5	31.0	.0	.0	.0
Aug	92.5	65.9	79.2	109+	1994	19	84.4	2000	47	1988	29	75.1	1992	1	442	3.7	22.1	31.0	.0	.0	.0
Sep	84.5	57.7	71.1	106+	2000	5	78.0	1998	26	1983	21	64.1	1974	33	216	.9	10.5	30.0	.0	.1	.0
Oct	74.3	45.4	59.9	100+	1956	8	63.9	1979	13	1993	31	56.0	1976	180	20	.1	1.4	30.6	.0	2.0	.0
Nov	59.4	32.4	45.9	87+	1980	8	55.1	1999	6+	1959	14	37.9	1972	574	0	.0	.0	24.2	.4	12.7	.0
Dec	49.2	24.0	36.6	89	1955	24	41.5	1996	-14	1989	23	22.6	1983	881	0	.0	.0	17.7	2.8	24.1	.6
Ann	71.6	44.3	58.0	110	Jul 1986	28	85.8	Jul 1980	-16	Jan 1984	19	22.2	Jan 1979	4174	1627	11.8	77.8	317.0	10.3	97.7	1.4

\+ 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: 1948-2001

(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	.64	.56	2.20	1999	30	2.27	1993	.00+	1996
Feb	.95	.58	2.58	1985	22	4.77	1985	.00+	1995
Mar	1.94	1.47	2.51	1988	2	5.94	2000	.00	1971
Apr	2.37	1.77	5.44	1954	30	7.94	1997	.00	1996
May	4.05	3.78	4.65	1949	7	11.31	1977	.58	1985
Jun	3.65	3.46	4.70	1981	30	8.23	2000	.00	1998
Jul	1.77	1.52	3.35	1975	24	5.90	1996	.00+	1999
Aug	2.40	2.32	3.08	1975	14	5.98	1977	.27	1976
Sep	2.64	2.36	3.30	1985	21	6.75	1988	.00+	2000
Oct	1.98	1.18	3.53	1960	12	8.33	2000	.04+	1992
Nov	1.23	.98	2.57	1998	1	3.24	1998	.00+	1999
Dec	.84	.47	2.21	1984	15	3.72	1984	.00+	1985
Ann	24.46	24.79	5.44	Apr 1954	30	11.31	May 1977	.00+	Sep 2000

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	2.9	1.6	.4	.1
Feb	3.6	2.4	.5	.1
Mar	4.8	3.3	1.4	.6
Apr	5.6	4.0	1.7	.6
May	8.4	6.7	2.8	1.0
Jun	6.9	5.4	2.6	1.1
Jul	4.9	3.2	1.1	.5
Aug	5.8	4.5	2.0	.6
Sep	5.5	4.1	2.0	.6
Oct	4.0	2.9	1.2	.5
Nov	4.0	2.5	.6	.2
Dec	2.8	2.0	.4	.1
Ann	59.2	42.6	16.7	6.0

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	.12	.24	.36	.49	.63	.82	1.06	1.46	1.85
Feb	.00	.00	.17	.32	.49	.67	.90	1.18	1.57	2.23	2.87
Mar	.06	.20	.47	.75	1.06	1.41	1.84	2.38	3.12	4.37	5.60
Apr	.17	.42	.80	1.14	1.51	1.91	2.36	2.93	3.68	4.92	6.11
May	.68	1.03	1.62	2.18	2.75	3.37	4.08	4.95	6.10	7.97	9.76
Jun	.73	1.24	1.85	2.34	2.82	3.30	3.84	4.46	5.27	6.54	7.72
Jul	.00	.13	.42	.70	.99	1.32	1.72	2.19	2.86	3.97	5.06
Aug	.42	.63	.99	1.31	1.65	2.01	2.43	2.93	3.60	4.68	5.71
Sep	.00	.20	.62	1.03	1.47	1.96	2.55	3.27	4.26	5.93	7.56
Oct	.04	.11	.29	.52	.82	1.19	1.67	2.31	3.25	4.91	6.60
Nov	.00	.00	.41	.63	.83	1.04	1.28	1.57	1.93	2.52	3.08
Dec	.00	.02	.10	.21	.34	.51	.72	.99	1.40	2.10	2.82
Ann	17.35	18.72	20.49	21.83	23.02	24.17	25.36	26.68	28.27	30.59	32.59

\+ 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)

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	2.4	.1	#	0	10.0	1988	6	11.0	1988	6	1973	10	1	1979	1.1	.7	.3	.1	@	.8	.5	.3	.0
Feb	3.4	1.8	#	0	6.5	1996	2	12.0	1983	5	1978	9	1	1979	1.1	1.0	.4	.2	.0	2.3	1.0	.2	.0
Mar	1.2	.0	#	0	10.0	1994	9	12.0	1994	2	1980	30	#+	2000	.4	.3	.2	@	@	.1	.0	.0	.0
Apr	.2	.0	#	0	4.0	1983	5	4.0	1983	2	1973	8	#	1973	.1	.1	@	.0	.0	.1	.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	1.5	.0	#	0	6.0	1972	19	11.0	1972	5	1972	21	1	1972	.6	.4	.3	.2	.0	.5	.2	.1	.0
Dec	1.9	.5	#	0	7.0	2000	27	12.0	2000	10	2000	27	1+	2000	.8	.8	.3	.1	.0	.4	.2	.1	.0
Ann	10.6	2.4	N/A	N/A	10.0+	Mar 1994	9	12.0+	Dec 2000	10	Dec 2000	27	1+	Dec 2000	4.1	3.3	1.5	.6	@	4.2	1.9	.7	.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	5/09	5/03	4/29	4/26	4/22	4/19	4/16	4/12	4/06
32	4/24	4/19	4/15	4/12	4/09	4/06	4/03	3/30	3/25
28	4/09	4/06	4/03	3/31	3/29	3/27	3/25	3/22	3/18
24	4/07	4/01	3/27	3/23	3/19	3/16	3/12	3/07	3/01
20	3/31	3/22	3/17	3/12	3/07	3/02	2/25	2/20	2/12
16	3/19	3/10	3/05	2/27	2/23	2/18	2/13	2/07	1/29

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	9/23	9/29	10/04	10/09	10/13	10/17	10/21	10/26	11/02
32	10/01	10/08	10/13	10/17	10/21	10/25	10/30	11/04	11/11
28	10/12	10/18	10/23	10/27	10/31	11/04	11/08	11/13	11/20
24	10/30	11/04	11/08	11/12	11/15	11/18	11/21	11/25	12/01
20	11/02	11/10	11/15	11/20	11/25	11/29	12/04	12/09	12/17
16	11/12	11/20	11/26	12/01	12/06	12/10	12/15	12/21	12/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	199	190	183	178	173	167	162	155	146
32	224	214	206	200	195	189	183	176	166
28	237	230	224	220	215	211	206	201	193
24	263	255	249	244	240	235	230	224	216
20	297	285	276	269	262	255	247	238	226
16	324	311	301	293	285	278	269	260	247

***** 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	944	693	533	256	71	8	0	1	33	180	574	881	4174
60	789	561	383	154	23	0	0	0	9	77	431	726	3153
57	697	483	299	106	9	0	0	0	3	40	349	635	2621
55	637	433	247	79	5	0	0	0	0	24	298	576	2299
50	492	316	139	32	1	0	0	0	0	5	189	434	1608
32	108	56	3	0	0	0	0	0	0	0	13	81	261

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	187	288	493	767	1060	1307	1506	1464	1173	863	429	223	9760
55	3	20	24	157	352	617	793	751	483	174	24	6	3404
57	1	15	14	124	294	557	731	689	426	128	15	2	2996
60	0	9	5	82	215	468	638	596	342	72	7	0	2434
65	0	0	0	33	108	325	483	442	216	20	0	0	1627
70	0	0	0	11	39	198	330	294	121	3	0	0	996

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	78	166	341	570	847	1076	1266	1223	957	650	270	98	78	244	585	1155	2002	3078	4344	5567	6524	7174	7444	7542
45	31	93	217	426	692	926	1111	1068	807	497	159	40	31	124	341	767	1459	2385	3496	4564	5371	5868	6027	6067
50	6	42	127	291	538	776	956	913	658	352	85	15	6	48	175	466	1004	1780	2736	3649	4307	4659	4744	4759
55	0	14	62	180	387	626	801	758	513	223	39	1	0	14	76	256	643	1269	2070	2828	3341	3564	3603	3604
60	0	2	25	92	247	477	646	603	369	119	9	0	0	2	27	119	366	843	1489	2092	2461	2580	2589	2589
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	81	138	238	368	543	715	830	803	626	415	183	86	81	219	457	825	1368	2083	2913	3716	4342	4757	4940	5026

(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

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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