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: SALLISAW 2 NW, OK **COOP ID: 347862**

Climate Division: OK 6 **NWS Call Sign:** **Elevation: 660 Feet** **Lat: 35˚27N** **Lon: 94˚48W**

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	48.1	25.2	36.7	80+	1950	25	43.1	1990	-9+	1977	10	25.7	1979	879	0	.0	.0	15.4	2.9	22.3	.3
Feb	54.4	30.0	42.2	85+	1962	12	51.1	1976	-11	1951	2	31.1	1978	639	0	.0	.0	19.0	1.5	14.7	.2
Mar	62.5	37.8	50.2	94	1974	31	55.3	1974	1	1948	12	43.8	1996	460	1	.0	@	27.7	.2	6.8	.0
Apr	71.7	47.1	59.4	93+	1972	12	65.7	1981	23	1957	13	52.9	1983	192	25	.0	.2	29.7	.0	1.2	.0
May	79.0	57.5	68.3	95+	1951	30	73.1	1974	32+	1954	4	63.9	1976	47	148	.0	1.5	31.0	.0	.0	.0
Jun	86.8	65.5	76.2	103+	1953	14	80.6	1977	45	1983	1	73.0	1995	2	336	.3	11.4	30.0	.0	.0	.0
Jul	92.6	69.8	81.2	111	1954	13	86.6	1980	50+	1972	6	78.0	1989	0	502	4.2	23.5	31.0	.0	.0	.0
Aug	91.9	68.4	80.2	109+	1956	16	86.3	1980	50+	1967	12	73.0	1992	2	472	4.8	22.5	31.0	.0	.0	.0
Sep	84.6	61.4	73.0	107+	1998	5	80.9	1998	33+	1984	29	66.2	1974	23	262	.7	9.4	30.0	.0	.0	.0
Oct	74.8	49.6	62.2	98+	1953	1	66.5	1971	18+	1989	20	56.8	1976	143	56	.0	.8	30.7	.0	.8	.0
Nov	60.7	37.8	49.3	89	1978	3	58.2	1999	9	1976	29	43.0	1993	477	4	.0	.0	25.5	.1	8.0	.0
Dec	50.9	28.9	39.9	82	1951	31	46.5	1984	-9	1989	23	26.8	1983	778	0	.0	.0	17.9	1.8	17.6	.2
Ann	71.5	48.3	59.9	111	Jul 1954	13	86.6	Jul 1980	-11	Feb 1951	2	25.7	Jan 1979	3642	1806	10.0	69.3	318.9	6.5	71.4	.7

\+ 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	2.25	1.85	3.82	1966	2	8.45	1998	.02	1986
Feb	2.68	2.43	4.18	1966	9	8.72	1989	.07	1991
Mar	4.15	3.94	3.31	1985	29	10.86	1990	.55	1971
Apr	4.37	3.76	4.52	1973	22	13.39	1990	.55	1989
May	5.67	5.77	4.39	1984	27	14.43	1990	1.76	1996
Jun	4.57	4.35	4.67	1974	7	10.60	2000	1.15	1990
Jul	2.82	2.42	6.04	1961	15	10.61	1981	.11	1993
Aug	3.21	3.75	3.34	1964	15	6.40	1975	.00	2000
Sep	4.62	4.17	4.55	1974	2	11.01	1974	1.22	1979
Oct	4.17	4.38	5.65	1969	11	10.31	1984	.56	1992
Nov	5.09	4.62	4.59	1973	25	12.09	1996	.79	1995
Dec	3.18	2.77	3.70	1971	10	8.15	1987	.27	1981
Ann	46.78	45.32	6.04	Jul 1961	15	14.43	May 1990	.00	Aug 2000

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	5.8	3.8	1.5	.7
Feb	6.0	4.3	1.9	.8
Mar	7.9	6.0	3.1	1.3
Apr	7.8	6.0	3.1	1.4
May	9.3	7.3	3.9	1.9
Jun	7.9	6.4	3.2	1.4
Jul	4.8	3.8	2.0	1.0
Aug	5.2	4.2	2.1	1.0
Sep	7.6	5.9	3.3	1.7
Oct	7.0	5.1	2.5	1.6
Nov	7.2	5.6	3.6	1.9
Dec	6.4	4.7	2.2	1.0
Ann	82.9	63.1	32.4	15.7

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	.17	.31	.60	.91	1.26	1.66	2.13	2.73	3.57	4.98	6.36
Feb	.26	.45	.81	1.19	1.59	2.05	2.59	3.26	4.19	5.73	7.24
Mar	.90	1.29	1.90	2.45	3.00	3.59	4.25	5.04	6.09	7.76	9.33
Apr	.97	1.38	2.02	2.59	3.17	3.79	4.48	5.30	6.39	8.12	9.75
May	1.76	2.30	3.10	3.78	4.45	5.14	5.90	6.79	7.93	9.73	11.38
Jun	1.21	1.64	2.30	2.88	3.46	4.06	4.72	5.51	6.54	8.16	9.68
Jul	.24	.43	.80	1.19	1.62	2.11	2.69	3.43	4.45	6.15	7.82
Aug	.12	.37	.82	1.29	1.80	2.38	3.07	3.94	5.14	7.14	9.11
Sep	1.25	1.69	2.35	2.94	3.51	4.11	4.78	5.56	6.59	8.20	9.71
Oct	.66	1.01	1.62	2.19	2.79	3.44	4.18	5.10	6.31	8.30	10.20
Nov	1.20	1.68	2.42	3.09	3.75	4.45	5.23	6.17	7.39	9.34	11.17
Dec	.56	.84	1.31	1.74	2.19	2.67	3.21	3.87	4.76	6.18	7.54
Ann	31.35	34.26	38.04	40.93	43.51	46.02	48.63	51.53	55.06	60.21	64.70

\+ 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

Complete documentation available from:
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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	2.7	2.0	#	#
Feb	2.0	.6	#	0
Mar	.7	.0	#	0
Apr	.0	.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	.0	#	0
Dec	1.1	.0	#	0
Ann	6.9	2.6	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	2000	28	13.2	1977	9	1988	10	2	1988
Feb	6.0	1982	11	10.0	1978	9	1985	5	2	1985
Mar	6.0	1989	6	9.0	1989	9	1989	6	1	1989
Apr	.5	1973	10	.5	1973	#	1973	9	#	1973
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	#	1993	29	#	1993	0	0	0	0	0
Nov	3.0	1975	26	3.0	1975	3	1975	26	#+	1996
Dec	5.0	1975	25	7.0	1975	4+	1990	31	1	1983
Ann	7.0	Jan 2000	28	13.2	Jan 1977	9+	Mar 1989	6	2+	Jan 1988

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	1.4	.9	.4	.1	.0
Feb	1.4	.8	.2	@	.0
Mar	.3	.2	.1	@	.0
Apr	@	.0	.0	.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	.0	.0
Nov	.3	.3	@	.0	.0
Dec	.5	.3	.2	@	.0
Ann	3.9	2.5	.9	.1	.0

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	1.9	.7	.4	.0
Feb	.8	.1	@	.0
Mar	.3	.2	.1	.0
Apr	.0	.0	.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	.0
Nov	.2	@	.0	.0
Dec	.8	.2	.0	.0
Ann	4.0	1.2	.5	.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	4/29	4/24	4/20	4/17	4/15	4/12	4/09	4/05	3/31
32	4/15	4/11	4/07	4/04	4/02	3/30	3/27	3/24	3/19
28	4/09	4/03	3/29	3/26	3/22	3/18	3/15	3/10	3/04
24	3/30	3/21	3/14	3/09	3/04	2/27	2/21	2/15	2/06
20	3/19	3/11	3/05	2/27	2/23	2/18	2/13	2/07	1/29
16	3/04	2/24	2/19	2/14	2/09	2/04	1/30	1/24	1/15

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	10/02	10/08	10/12	10/15	10/18	10/21	10/24	10/28	11/02
32	10/14	10/21	10/27	10/31	11/04	11/08	11/13	11/18	11/25
28	10/29	11/04	11/08	11/12	11/15	11/18	11/22	11/26	12/02
24	11/03	11/10	11/15	11/20	11/24	11/28	12/03	12/08	12/15
20	11/05	11/17	11/25	12/02	12/09	12/15	12/22	12/31	1/11
16	11/17	11/29	12/08	12/15	12/22	12/29	1/06	1/15	1/29

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	211	202	196	191	186	181	175	169	161
32	242	233	226	221	216	211	205	199	190
28	267	257	249	243	237	231	225	218	208
24	300	288	279	271	264	257	250	241	229
20	324	306	297	289	283	276	270	262	251
16	>365	344	329	319	311	303	295	286	273

***** 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	879	639	460	192	47	2	0	2	23	143	477	778	3642
60	724	507	316	94	12	0	0	0	6	63	341	627	2690
57	633	429	237	53	4	0	0	0	1	35	267	540	2199
55	577	379	191	34	2	0	0	0	0	21	223	483	1910
50	433	266	101	7	0	0	0	0	0	5	133	349	1294
32	82	33	2	0	0	0	0	0	0	0	5	53	175

Base — Cooling Degree Days (1)

Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	227	318	565	823	1124	1324	1525	1493	1229	936	522	298	10384
55	8	20	41	166	413	634	812	780	539	244	50	15	3722
57	2	14	25	126	353	574	750	718	480	195	33	11	3281
60	0	8	12	77	268	484	657	625	395	131	17	4	2678
65	0	0	1	25	148	336	502	472	262	56	4	0	1806
70	0	0	0	5	64	199	347	328	156	17	0	0	1116

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	105	206	410	639	905	1111	1302	1280	1019	715	342	144	105	311	721	1360	2265	3376	4678	5958	6977	7692	8034	8178
45	49	122	275	490	750	961	1147	1125	869	560	225	70	49	171	446	936	1686	2647	3794	4919	5788	6348	6573	6643
50	19	61	171	350	595	811	992	970	719	411	129	33	19	80	251	601	1196	2007	2999	3969	4688	5099	5228	5261
55	3	28	90	226	440	661	837	815	571	275	67	14	3	31	121	347	787	1448	2285	3100	3671	3946	4013	4027
60	0	5	38	120	294	511	682	660	424	159	26	0	0	5	43	163	457	968	1650	2310	2734	2893	2919	2919
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	76	136	255	409	600	765	871	860	683	462	209	94	76	212	467	876	1476	2241	3112	3972	4655	5117	5326	5420

(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.
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