

Climatography of the United States

No. 20

1971-2000

Station: LINDSAY 2 W, OK

COOP ID: 345216

Climate Division: OK 8

NWS Call Sign:

Elevation: 980 Feet Lat: 34°49N Lon: 97°39W

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	49.1	24.0	36.6	80+	1967	22	44.7	1990	-10	1988	8	26.4	1979	883	0	.0	.0	17.6	2.9	23.4	.2
Feb	55.9	28.5	42.2	91	1996	22	52.1	1976	-4	1979	9	29.7	1978	642	0	.0	@	20.1	1.4	16.6	.1
Mar	63.7	36.8	50.3	96	1967	11	56.4	1974	2	1989	7	46.2	1996	457	0	.0	.1	28.3	.2	8.1	.0
Apr	72.7	46.9	59.8	102	1972	12	66.6	1981	21	1975	3	54.1	1983	192	36	@	.5	29.9	.0	1.5	.0
May	80.5	57.6	69.1	101+	2000	24	74.8	1996	32	1960	1	64.5	1976	36	161	.1	3.6	31.0	.0	.0	.0
Jun	88.2	65.8	77.0	112	1980	28	81.7	1980	39	1965	7	72.9	1983	1	362	.7	15.2	30.0	.0	.0	.0
Jul	94.4	70.1	82.3	111	1980	2	88.1	1980	49	1970	23	79.0	1976	0	534	6.9	26.2	31.0	.0	.0	.0
Aug	94.0	68.1	81.1	110	1970	9	87.0	1980	47	1962	26	74.4	1992	0	499	6.6	25.5	31.0	.0	.0	.0
Sep	85.7	60.5	73.1	109+	2000	4	81.4	1998	35	1989	24	65.7	1974	25	268	1.7	11.7	30.0	.0	.0	.0
Oct	75.5	49.0	62.3	98	1977	1	66.3	1972	16	1993	31	56.5	1976	139	52	.0	1.6	30.8	.0	1.3	.0
Nov	61.7	36.5	49.1	86+	1965	25	56.8	1999	9	1976	29	43.2	2000	478	2	.0	.0	26.0	.1	9.8	.0
Dec	51.6	27.6	39.6	82	1966	7	44.0	1975	-13	1989	23	26.0	1983	788	0	.0	.0	20.5	1.7	20.6	.2
Ann	72.8	47.6	60.2	112	Jun 1980	28	88.1	Jul 1980	-13	Dec 1989	23	26.0	Dec 1983	3641	1914	16.0	84.4	326.2	6.3	81.3	.5

+ 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/normal/usnormals.html

Issue Date: February 2004

(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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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: LINDSAY 2 W, OK

COOP ID: 345216

Climate Division: OK 8

NWS Call Sign:

Elevation: 980 Feet Lat: 34°49N

Lon: 97°39W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
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	1.54	1.56	2.79	1998	3	6.52	1998	.00	1976	4.7	3.0	1.1	.3	.05	.17	.38	.60	.85	1.13	1.47	1.89	2.47	3.46	4.43
Feb	1.64	1.53	2.10	1948	24	4.88	1987	.00	1996	5.0	3.3	1.1	.4	.12	.29	.55	.79	1.04	1.32	1.64	2.03	2.55	3.41	4.24
Mar	2.90	2.79	2.81	1998	15	7.08	1990	.18	1972	6.6	5.4	2.2	.9	.55	.81	1.23	1.62	2.02	2.45	2.94	3.53	4.31	5.56	6.76
Apr	3.54	3.47	3.90	1974	30	8.44	1990	.38	1989	6.9	5.4	2.2	1.0	.97	1.31	1.82	2.26	2.70	3.16	3.66	4.26	5.04	6.26	7.41
May	5.62	5.02	8.78	1950	11	13.42	1987	.10	1988	8.3	6.6	3.1	1.9	.81	1.27	2.08	2.86	3.67	4.57	5.60	6.87	8.57	11.34	14.02
Jun	3.80	3.48	5.53	1968	1	7.54	1979	.79	1998	7.8	5.8	2.4	1.1	1.03	1.39	1.94	2.42	2.89	3.38	3.93	4.57	5.41	6.73	7.97
Jul	2.26	2.27	4.63	1957	25	7.40	1996	.00+	1998	4.6	3.3	1.4	.6	.00	.27	.68	1.04	1.41	1.81	2.27	2.82	3.57	4.79	5.97
Aug	2.27	1.67	2.73	1993	24	8.10	1996	.00+	2000	5.6	4.0	1.7	.8	.00	.53	1.00	1.35	1.69	2.03	2.41	2.83	3.40	4.30	5.15
Sep	3.58	3.19	6.33	1959	25	9.48	1991	.00	1978	6.2	4.8	2.6	1.2	.45	.90	1.50	2.01	2.53	3.07	3.68	4.41	5.37	6.90	8.36
Oct	3.70	3.14	5.70	1953	23	9.66	2000	.39	1978	6.4	5.1	2.5	1.3	.43	.72	1.23	1.75	2.30	2.92	3.63	4.52	5.73	7.72	9.66
Nov	2.27	1.84	5.04	1992	11	8.28	1992	.00	1999	5.7	3.9	1.2	.6	.13	.34	.69	1.02	1.38	1.77	2.23	2.80	3.58	4.85	6.09
Dec	1.99	1.65	2.62	1991	20	5.88	1991	.00	1977	5.3	3.5	1.6	.6	.12	.32	.63	.92	1.23	1.57	1.96	2.45	3.11	4.19	5.24
Ann	35.11	34.18	8.78	May 1950	11	13.42	May 1987	.00+	Aug 2000	73.1	54.1	23.1	10.7	24.73	26.73	29.30	31.25	32.98	34.66	36.40	38.32	40.65	44.03	46.96

+ 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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Station: LINDSAY 2 W, OK

COOP ID: 345216

Climate Division: OK 8

NWS Call Sign:

Elevation: 980 Feet

Lat: 34° 49N

Lon: 97° 39W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	2.7	.0	#	0	13.0	1988	6	14.5	1988	#+	1994	7	#+	1994	.6	.5	.2	.2	.1	.0	.0	.0	.0
Feb	1.7	.0	#	0	7.0	1971	21	15.5	1978	#+	1998	5	#+	1998	.3	.3	.1	.1	.0	.0	.0	.0	.0
Mar	.8	.0	#	0	11.0	1989	5	13.2	1989	1	1974	21	#+	1999	.3	.2	.1	@	@	.1	.0	.0	.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	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	.3	.0	0	0	4.0	1972	21	4.0	1972	0	0	0	0	0	.1	.1	@	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	4.5	2000	31	4.5	2000	#+	1998	23	#+	1998	.3	.2	.1	.0	.0	.0	.0	.0	.0
Ann	5.8	.0	N/A	N/A	13.0	Jan 1988	6	15.5	Feb 1978	1	Mar 1974	21	#+	Mar 1999	1.6	1.3	.5	.3	.1	.1	.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

Complete documentation available from:

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NWS Call Sign:

Elevation: 980 Feet

Lat: 34° 49N

Lon: 97° 39W

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	4/26	4/22	4/18	4/15	4/13	4/10	4/07	4/04	3/30
32	4/17	4/13	4/10	4/07	4/04	4/02	3/30	3/27	3/22
28	4/10	4/05	4/02	3/30	3/27	3/24	3/20	3/17	3/12
24	3/31	3/24	3/18	3/14	3/10	3/06	3/01	2/24	2/17
20	3/18	3/09	3/03	2/26	2/21	2/16	2/10	2/04	1/27
16	3/05	2/25	2/19	2/14	2/09	2/04	1/30	1/23	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	10/06	10/10	10/14	10/17	10/19	10/22	10/25	10/28	11/02
32	10/14	10/19	10/23	10/26	10/29	11/01	11/05	11/08	11/14
28	10/24	10/30	11/04	11/07	11/11	11/14	11/18	11/23	11/29
24	10/28	11/04	11/09	11/13	11/17	11/21	11/26	12/01	12/08
20	11/10	11/18	11/24	11/29	12/04	12/09	12/14	12/20	12/28
16	11/14	11/25	12/03	12/09	12/15	12/22	12/28	1/05	1/16
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	209	202	197	193	189	185	181	176	169
32	228	221	216	211	207	203	199	194	187
28	252	244	238	233	229	224	219	213	205
24	284	273	265	258	252	245	238	231	219
20	316	304	296	289	283	277	271	263	253
16	>365	332	320	312	304	297	290	281	270

* 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

Complete documentation available from:

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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	883	642	457	192	36	1	0	0	25	139	478	788	3641
60	728	512	309	98	8	0	0	0	7	58	340	635	2695
57	637	435	226	58	3	0	0	0	2	30	264	547	2202
55	577	387	178	38	1	0	0	0	0	17	219	490	1907
50	434	278	86	10	0	0	0	0	0	3	126	353	1290
32	76	44	1	0	0	0	0	0	0	0	4	49	174

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	216	329	567	834	1148	1351	1557	1521	1233	937	517	284	10494
55	4	28	31	182	436	661	844	808	543	240	42	12	3831
57	2	20	17	142	376	601	782	746	485	191	27	7	3396
60	1	13	7	92	288	511	689	653	400	126	13	2	2795
65	0	0	0	36	161	362	534	499	268	52	2	0	1914
70	0	0	0	10	69	223	380	348	162	15	0	0	1207

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	110	214	422	652	931	1137	1329	1293	1022	726	338	140	110	324	746	1398	2329	3466	4795	6088	7110	7836	8174	8314
45	48	127	288	504	776	987	1174	1138	872	571	222	69	48	175	463	967	1743	2730	3904	5042	5914	6485	6707	6776
50	17	64	176	361	621	837	1019	983	722	422	128	28	17	81	257	618	1239	2076	3095	4078	4800	5222	5350	5378
55	3	30	94	232	466	687	864	828	574	283	67	8	3	33	127	359	825	1512	2376	3204	3778	4061	4128	4136
60	0	9	42	128	318	537	709	673	430	164	28	1	0	9	51	179	497	1034	1743	2416	2846	3010	3038	3039
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	96	163	282	422	621	772	876	845	675	469	220	107	96	259	541	963	1584	2356	3232	4077	4752	5221	5441	5548

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

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| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
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References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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