

# Climatology of the United States

No. 20

1971-2000

Station: TALOGA, OK

COOP ID: 348708

Climate Division: OK 4

NWS Call Sign:

Elevation: 1,705 Feet Lat: 36°02N

Lon: 98°58W

## 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	46.8	19.9	33.4	83	1967	22	41.6	1986	-15	1984	19	21.5	1979	982	0	.0	.0	16.1	4.5	27.5	.6
Feb	53.0	24.6	38.8	91	1996	22	48.3	1976	-17	1996	4	27.1	1978	734	0	.0	@	18.4	2.2	20.3	.4
Mar	61.2	32.7	47.0	93	1994	17	52.4	1972	-5+	1948	11	40.6	1996	559	0	.0	.2	26.3	.2	12.0	.0
Apr	70.4	42.6	56.5	99	1972	12	61.8	1981	17	1975	3	50.4	1997	277	22	.0	.7	29.3	.0	3.1	.0
May	79.4	54.3	66.9	103+	1953	26	72.0	1996	30+	1954	3	61.6	1995	69	126	.3	4.3	31.0	.0	.1	.0
Jun	88.7	64.1	76.4	110+	1953	14	81.0	1990	41	1964	1	71.7	1982	5	347	2.0	16.5	30.0	.0	.0	.0
Jul	94.7	67.7	81.2	112	1954	25	86.1	1980	44	1950	14	77.9	1989	0	503	8.6	26.8	31.0	.0	.0	.0
Aug	93.0	66.4	79.7	112	1964	6	84.6	2000	46	1962	27	73.5	1992	1	457	7.2	24.0	31.0	.0	.0	.0
Sep	84.6	58.1	71.4	109	2000	4	78.8	1998	29+	2000	26	64.6	1974	31	221	1.4	12.0	30.0	.0	.2	.0
Oct	73.5	44.8	59.2	99+	1956	8	63.7	1979	9	1993	31	53.5	1976	203	21	.0	1.6	30.5	@	2.7	.0
Nov	58.9	31.5	45.2	89	1980	7	52.9	1999	4	1991	3	39.8	1972	594	0	.0	.0	24.1	.1	14.8	.0
Dec	48.6	22.6	35.6	91	1955	24	39.9	1975	-16	1989	23	22.2	1983	911	0	.0	.0	16.9	2.5	25.7	.6
Ann	71.1	44.1	57.6	112+	Aug 1964	6	86.1	Jul 1980	-17	Feb 1996	4	21.5	Jan 1979	4366	1697	19.5	86.1	314.6	9.5	106.4	1.6

+ 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](http://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: TALOGA, OK**

**COOP ID: 348708**

**Climate Division: OK 4**

**NWS Call Sign:**

**Elevation: 1,705 Feet Lat: 36°02N**

**Lon: 98°58W**

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	.81	.59	1.87	1982	30	2.00+	1990	.00+	1986	3.4	2.0	.5	@	.00	.11	.26	.39	.52	.66	.82	1.01	1.27	1.70	2.10
Feb	1.07	.75	1.70+	1948	27	2.84	1990	.00+	1995	3.4	2.4	.7	.1	.00	.00	.25	.44	.62	.82	1.06	1.35	1.72	2.36	2.98
Mar	2.35	2.08	3.42	1988	3	8.89	1973	.00+	1997	5.0	3.9	1.5	.7	.00	.13	.46	.82	1.21	1.66	2.20	2.88	3.84	5.45	7.04
Apr	2.76	2.40	3.50	1970	18	8.38	1997	.00	1996	5.8	4.6	1.9	.7	.16	.42	.85	1.26	1.69	2.17	2.72	3.41	4.34	5.88	7.37
May	5.06	4.61	4.16	1982	17	14.20	1982	.59	1984	7.7	6.2	3.2	1.6	.82	1.26	1.99	2.69	3.41	4.19	5.08	6.18	7.63	10.00	12.26
Jun	3.65	3.49	3.42	1981	30	7.56	1995	.17	1998	6.9	5.7	2.6	1.1	.70	1.03	1.56	2.06	2.56	3.10	3.71	4.45	5.43	7.01	8.51
Jul	2.32	1.74	5.70	1979	24	11.53	1979	.00+	1983	4.6	3.5	1.5	.7	.00	.12	.45	.79	1.18	1.62	2.16	2.84	3.79	5.40	6.99
Aug	2.52	1.96	3.74	1974	28	11.21	1974	.00	2000	5.2	4.2	1.9	.6	.11	.33	.70	1.07	1.47	1.92	2.45	3.10	4.00	5.49	6.95
Sep	2.78	2.88	3.95	1997	23	7.31	1996	.00	2000	5.3	4.2	1.8	.8	.08	.27	.64	1.04	1.48	2.00	2.61	3.40	4.49	6.33	8.16
Oct	2.58	1.64	5.42	1986	3	8.96	1986	.06	1987	4.5	3.5	1.8	.6	.08	.18	.44	.76	1.15	1.64	2.24	3.05	4.20	6.23	8.28
Nov	1.98	1.84	4.46	1974	3	5.84	1992	.00+	1995	4.3	3.1	1.2	.5	.00	.14	.45	.75	1.08	1.46	1.90	2.45	3.21	4.49	5.74
Dec	1.00	.59	1.50	1997	24	2.91	1984	.00+	1988	3.5	2.4	.6	.1	.00	.08	.24	.39	.56	.75	.97	1.24	1.62	2.25	2.86
Ann	28.88	28.95	5.70	Jul 1979	24	14.20	May 1982	.00+	Sep 2000	59.6	45.7	19.2	7.5	21.38	22.86	24.73	26.15	27.41	28.61	29.86	31.23	32.88	35.27	37.32

+ 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: TALOGA, OK**

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**Climate Division: OK 4**

**NWS Call Sign:**

**Elevation: 1,705 Feet**

**Lat: 36°02N**

**Lon: 98°58W**

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	4.1	3.0	#	#	7.0	1987	18	15.1	1973	12	1987	19	4	1988	2.3	2.0	.6	.2	.0	3.5	1.4	.6	.1
Feb	4.0	2.0	1	#	6.0	1971	21	19.5	1975	12	1971	22	3	1978	1.6	1.5	.6	.2	.0	3.6	2.1	.8	.1
Mar	1.5	.0	#	#	10.0	1994	9	10.0	1994	10	1994	9	1	1995	.7	.6	.1	.1	@	.7	.2	.1	@
Apr	.5	.0	#	0	8.0	1973	8	10.0	1973	8	1973	8	1	1973	.2	.2	@	@	.0	.2	.1	@	.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	.1	.0	#	0	2.0	1991	31	2.0	1991	2	1991	31	#	1991	@	@	.0	.0	.0	@	.0	.0	.0
Nov	1.3	.0	#	0	7.0	1972	21	12.5	1972	8	1972	21	1	1988	.7	.6	.1	.1	.0	.5	.2	.1	.0
Dec	3.5	2.0	#	#	8.5	1971	3	18.0	1987	11	1987	15	2	1987	1.6	1.5	.5	.2	.0	2.8	1.2	.4	.1
Ann	15.0	7.0	N/A	N/A	10.0	Mar 1994	9	19.5	Feb 1975	12+	Jan 1987	19	4	Jan 1988	7.1	6.4	1.9	.8	@	11.3	5.2	2.0	.3

+ 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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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	5/05	5/02	4/29	4/26	4/24	4/21	4/18	4/13
32	4/29	4/24	4/20	4/17	4/14	4/12	4/09	4/05	3/31
28	4/18	4/13	4/10	4/07	4/04	4/02	3/30	3/26	3/22
24	4/09	4/03	3/29	3/26	3/22	3/19	3/15	3/11	3/05
20	4/02	3/24	3/18	3/13	3/09	3/04	2/27	2/21	2/12
16	3/21	3/12	3/06	2/28	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	9/27	10/01	10/04	10/06	10/09	10/12	10/15	10/20
32	9/30	10/05	10/09	10/12	10/15	10/18	10/21	10/25	10/30
28	10/18	10/23	10/27	10/30	11/02	11/05	11/08	11/12	11/17
24	10/23	10/29	11/03	11/07	11/11	11/14	11/18	11/23	11/29
20	10/27	11/04	11/09	11/14	11/18	11/22	11/27	12/02	12/10
16	11/07	11/15	11/21	11/25	11/30	12/04	12/09	12/15	12/22
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	179	173	169	166	162	159	156	152	146
32	201	195	191	187	183	179	176	171	165
28	233	225	220	215	211	207	202	197	189
24	253	246	241	237	233	228	224	219	212
20	286	275	267	260	254	247	240	232	221
16	316	303	294	286	279	271	263	254	241

\* 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	982	734	559	277	69	5	0	1	31	203	594	911	4366
60	827	599	407	166	24	0	0	0	8	95	445	756	3327
57	734	521	322	114	10	0	0	0	3	52	361	663	2780
55	673	469	268	85	5	0	0	0	0	33	308	602	2443
50	527	348	154	34	1	0	0	0	0	7	190	457	1718
32	125	68	4	0	0	0	0	0	0	0	9	82	288

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	166	258	469	735	1080	1332	1526	1479	1180	841	405	195	9666
55	2	15	19	130	372	642	813	766	490	161	14	1	3425
57	1	11	11	99	315	582	751	704	433	118	8	0	3033
60	0	5	3	61	235	492	658	611	348	68	2	0	2483
65	0	0	0	22	126	347	503	457	221	21	0	0	1697
70	0	0	0	6	53	216	349	307	123	4	0	0	1058

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	60	145	320	551	850	1109	1309	1260	974	642	245	74	60	205	525	1076	1926	3035	4344	5604	6578	7220	7465	7539
45	24	80	205	404	695	959	1154	1105	824	493	141	29	24	104	309	713	1408	2367	3521	4626	5450	5943	6084	6113
50	2	32	115	272	540	809	999	950	674	348	75	9	2	34	149	421	961	1770	2769	3719	4393	4741	4816	4825
55	0	8	54	162	389	659	844	795	527	221	28	0	0	8	62	224	613	1272	2116	2911	3438	3659	3687	3687
60	0	0	19	76	250	510	689	640	388	117	7	0	0	0	19	95	345	855	1544	2184	2572	2689	2696	2696
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	76	131	231	360	552	731	844	819	633	420	178	75	76	207	438	798	1350	2081	2925	3744	4377	4797	4975	5050

(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](http://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](http://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.

- |   |   |
|---|---|
| <ol style="list-style-type: none"><li>a. Temperature/ Precipitation Tables<ol style="list-style-type: none"><li>1. 1971-2000 Monthly Normals</li><li>2. Cooperative Summary of the Day</li><li>3. National Weather Service station records</li><li>4. 1971-2000 serially complete daily data</li></ol></li><li>b. Degree Day Table<ol style="list-style-type: none"><li>1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals</li><li>2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data</li></ol></li></ol> | <ol style="list-style-type: none"><li>c. Snow Tables<ol style="list-style-type: none"><li>1. Snow Climatology</li><li>2. Cooperative Summary of the Day</li></ol></li><li>d. Freeze Data Table<br/>1971-2000 serially complete daily data</li></ol> |
|---|---|

## References

U.S. Climate Normals 1971-2000, [www.ncdc.noaa.gov/normal.html](http://www.ncdc.noaa.gov/normal.html)  
U.S. Climate Normals 1971-2000-Products Clim20, [www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html](http://www.ncdc.noaa.gov/oa/climate/normal/usnormalsprods.html)  
Snow Climatology Project Description, [www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html](http://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](http://www1.ncdc.noaa.gov/pub/data/special/serialcomplete_jam_0900.pdf)