

Climatology of the United States

No. 20

1971-2000

Station: EUFAULA 6 SSW, OK

COOP ID: 342993

Climate Division: OK 6

NWS Call Sign:

Elevation: 620 Feet

Lat: 35° 12N

Lon: 95° 35W

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	48.4	29.5	39.0	78+	1950	24	47.6	1990	-7	1977	10	27.3	1979	809	0	.0	.0	15.8	3.1	19.3	.2
Feb	54.7	34.1	44.4	90	1996	22	53.0	1999	0	1979	9	31.9	1978	586	0	.0	@	19.1	1.9	12.2	@
Mar	64.6	42.8	53.7	95	1974	31	58.7	1974	-2	1948	12	47.9	1975	357	7	.0	.1	27.7	.1	4.9	.0
Apr	73.9	51.4	62.7	94	1972	12	68.9	1981	22	1975	3	57.0	1983	127	56	.0	.3	29.9	.0	.3	.0
May	80.8	60.3	70.6	98	1956	19	74.7	1998	35	1960	1	65.4	1976	23	196	.0	1.3	31.0	.0	.0	.0
Jun	88.2	68.4	78.3	105	1953	22	83.2	1990	49	1954	4	74.7	1982	1	400	.1	10.7	30.0	.0	.0	.0
Jul	94.2	73.0	83.6	110+	1954	16	89.8	1998	51	1975	13	79.7	1989	0	576	4.3	22.2	31.0	.0	.0	.0
Aug	93.7	71.6	82.7	110+	1956	15	89.1	2000	53	1971	20	76.5	1992	1	549	5.8	24.1	31.0	.0	.0	.0
Sep	84.9	64.3	74.6	114	2000	1	83.0	1998	35	1984	30	65.9	1974	19	306	1.0	9.7	30.0	.0	.0	.0
Oct	74.5	53.8	64.2	100	1963	9	67.3	1998	23	1993	31	57.0	1976	98	71	.0	.8	30.8	.0	.3	.0
Nov	61.0	42.6	51.8	87	1955	13	62.3	1999	11+	1959	17	45.1	1972	406	10	.0	.0	26.0	.1	5.0	.0
Dec	51.5	33.3	42.4	82+	1948	13	48.4	1984	-3+	1989	22	29.0	1983	701	0	.0	.0	18.8	1.7	14.5	.2
Ann	72.5	52.1	62.3	114	Sep 2000	1	89.8	Jul 1998	-7	Jan 1977	10	27.3	Jan 1979	3128	2171	11.2	69.2	321.1	6.9	56.5	.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

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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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: EUFAULA 6 SSW, OK

COOP ID: 342993

Climate Division: OK 6

NWS Call Sign:

Elevation: 620 Feet Lat: 35°12N

Lon: 95°35W

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	2.16	1.84	3.40	1998	4	7.77	1998	.02	1986	6.6	4.1	1.3	.5	.18	.33	.62	.92	1.25	1.62	2.07	2.63	3.41	4.70	5.98	
Feb	2.38	1.99	2.52	1985	23	5.40	1990	.33	1976	6.4	4.2	1.5	.8	.37	.57	.92	1.25	1.59	1.96	2.38	2.90	3.60	4.74	5.82	
Mar	4.16	3.44	4.20	1977	27	10.27	1990	.58	1971	7.9	5.8	2.9	1.4	1.04	1.44	2.04	2.58	3.11	3.66	4.29	5.02	5.99	7.52	8.95	
Apr	4.02	3.96	4.73	1974	30	9.95	1990	.42	1987	8.1	6.5	2.7	1.3	1.14	1.52	2.10	2.60	3.09	3.60	4.17	4.84	5.71	7.07	8.34	
May	5.83	6.06	4.74	1954	2	11.13	1990	1.26	1988	9.8	7.3	3.8	1.7	2.23	2.77	3.55	4.19	4.81	5.43	6.11	6.89	7.89	9.42	10.81	
Jun	4.75	4.60	3.60	2001	28	11.99	2000	1.18	1988	8.3	6.5	3.2	1.6	1.43	1.88	2.55	3.14	3.70	4.29	4.94	5.70	6.68	8.22	9.65	
Jul	3.01	2.77	4.70	1950	29	8.89	1996	.00+	1999	5.6	4.0	1.9	1.1	.00	.00	.77	1.29	1.81	2.37	3.02	3.81	4.84	6.56	8.21	
Aug	2.63	1.91	3.90	1977	29	6.14	1996	.00	2000	5.7	3.8	1.7	.6	.29	.61	1.05	1.43	1.81	2.22	2.69	3.25	3.99	5.18	6.31	
Sep	4.92	3.53	7.15	1998	14	11.62	1991	.30	1978	8.1	6.1	3.5	1.6	.85	1.28	2.00	2.68	3.36	4.11	4.97	6.00	7.38	9.61	11.74	
Oct	4.46	3.91	5.98	1981	14	15.63	1981	.56	1978	6.4	4.9	2.7	1.4	.77	1.17	1.82	2.43	3.05	3.73	4.51	5.45	6.70	8.72	10.65	
Nov	4.28	3.97	4.85	1996	7	13.15	1996	.82	1976	7.1	5.3	3.0	1.5	1.03	1.43	2.05	2.61	3.16	3.75	4.40	5.18	6.20	7.82	9.34	
Dec	3.33	2.70	3.60	2001	16	9.53	1987	.12	1981	6.6	4.2	2.2	.9	.46	.73	1.21	1.67	2.16	2.69	3.31	4.07	5.10	6.78	8.40	
Ann	45.93	45.08	7.15	Sep 1998	14	15.63	Oct 1981	.00+	Aug 2000	86.6	62.7	30.4	14.4	31.31	34.09	37.69	40.43	42.88	45.26	47.72	50.45	53.78	58.63	62.84	

+ 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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Lat: 35°12N

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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	4.4	.0	#	0	7.5	1988	7	13.0	1988	8	1977	10	2	1979	1.1	.7	.4	.1	.0	1.9	.9	.4	.0
Feb	.7	.0	#	0	6.0	1979	25	6.0	1979	6	1975	24	1	1979	.5	.4	.1	.1	.0	.6	.3	.0	.0
Mar	.2	.0	0	0	3.0	1971	3	3.0	1971	0	0	0	0	0	.1	.1	.1	.0	.0	.0	.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	2.0	1975	26	2.0	1975	2	1975	26	#+	1995	.3	.2	.0	.0	.0	.2	.0	.0	.0
Dec	.4	.0	#	0	5.0	2000	13	5.0+	2000	2+	2000	26	#+	2000	.2	.2	.2	.1	.0	.0	.0	.0	.0
Ann	6.0	.0	N/A	N/A	7.5	Jan 1988	7	13.0	Jan 1988	8	Jan 1977	10	2	Jan 1979	2.2	1.6	.8	.3	.0	2.7	1.2	.4	.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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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	4/19	4/14	4/09	4/06	4/03	3/30	3/27	3/22	3/17
32	4/05	3/31	3/28	3/25	3/22	3/19	3/16	3/13	3/08
28	3/29	3/22	3/18	3/14	3/11	3/07	3/03	2/27	2/20
24	3/18	3/09	3/03	2/25	2/20	2/14	2/09	2/02	1/24
20	3/09	2/28	2/22	2/16	2/11	2/06	1/31	1/25	1/16
16	3/09	2/25	2/16	2/08	2/01	1/25	1/18	1/09	12/27
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	10/10	10/18	10/23	10/27	11/01	11/05	11/09	11/14	11/22
32	10/27	11/02	11/07	11/10	11/14	11/17	11/21	11/25	12/01
28	11/05	11/11	11/15	11/19	11/22	11/26	11/29	12/03	12/09
24	11/12	11/19	11/24	11/29	12/03	12/07	12/11	12/16	12/23
20	11/11	11/23	12/01	12/09	12/16	12/22	12/30	1/07	1/19
16	11/25	12/06	12/14	12/21	12/27	1/03	1/09	1/17	1/28
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	238	229	222	217	211	206	200	193	184
32	258	251	245	240	236	232	227	221	214
28	279	271	266	261	256	252	247	241	233
24	323	310	301	293	285	278	270	261	248
20	>365	329	317	309	301	293	286	277	265
16	>365	>365	344	331	321	312	303	293	280

* 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	809	586	357	127	23	1	0	1	19	98	406	701	3128
60	658	456	223	53	4	0	0	0	5	36	277	553	2265
57	573	384	158	26	1	0	0	0	0	16	212	467	1837
55	515	338	122	14	0	0	0	0	0	8	174	412	1583
50	381	240	56	2	0	0	0	0	0	1	98	286	1064
32	69	33	1	0	0	0	0	0	0	0	3	31	137

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	283	379	673	919	1196	1389	1599	1571	1277	996	597	353	11232
55	17	40	82	244	483	699	886	858	587	291	78	20	4285
57	12	30	56	195	422	639	824	796	527	237	56	14	3808
60	5	18	28	132	332	549	731	703	442	163	31	7	3141
65	0	0	7	56	196	400	576	549	306	71	10	0	2171
70	0	0	0	16	93	258	421	400	192	22	0	0	1402

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	126	222	450	683	942	1144	1338	1324	1048	759	381	171	126	348	798	1481	2423	3567	4905	6229	7277	8036	8417	8588
45	60	135	312	533	787	994	1183	1169	898	604	255	93	60	195	507	1040	1827	2821	4004	5173	6071	6675	6930	7023
50	25	70	199	390	632	844	1028	1014	748	452	154	43	25	95	294	684	1316	2160	3188	4202	4950	5402	5556	5599
55	5	32	108	254	478	694	873	859	601	311	82	18	5	37	145	399	877	1571	2444	3303	3904	4215	4297	4315
60	0	12	50	143	328	544	718	704	453	186	34	0	0	12	62	205	533	1077	1795	2499	2952	3138	3172	3172
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	79	140	270	427	634	797	911	887	705	482	216	100	79	219	489	916	1550	2347	3258	4145	4850	5332	5548	5648

(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.

- | | |
|---|---|
| <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 |
|---|---|

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