

Climatography of the United States No. 20

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: MEEKER 5 W, OK

1971-2000

COOP ID: 345779

Climate Division: OK 5

NWS Call Sign:

Elevation: 925 Feet

Lat: 35° 30N

Lon: 96° 59W

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	45.6	23.2	34.4	85	1952	1	42.8	1990	-6+	1959	5	22.7	1979	950	0	.0	.0	15.1	3.9	23.4	.4
Feb	51.9	27.5	39.7	91	1996	22	50.5	1976	-4+	1951	2	26.7	1978	708	0	.0	@	18.5	2.2	16.3	.3
Mar	60.5	35.7	48.1	91+	1995	22	52.4	1974	-7	1948	12	43.1	1975	524	0	.0	.1	26.8	.2	8.6	.0
Apr	69.5	45.4	57.5	103	1972	13	64.4	1981	22+	1975	3	51.3	1983	246	19	@	.4	29.7	.0	1.6	.0
May	76.6	56.4	66.5	96+	1953	31	72.2	1996	33+	1954	4	62.5	1976	60	105	.0	1.0	31.0	.0	.0	.0
Jun	84.3	64.7	74.5	105	1953	14	78.7	1977	44	1954	4	70.0	1974	6	291	.2	10.1	30.0	.0	.0	.0
Jul	90.4	69.3	79.9	110+	1954	13	85.3	1980	50	1971	31	76.5	1989	0	459	4.1	22.3	31.0	.0	.0	.0
Aug	90.2	67.4	78.8	110+	1956	6	84.2	1980	46	1962	26	72.4	1992	2	429	4.0	22.0	31.0	.0	.0	.0
Sep	81.5	59.6	70.6	107+	1951	2	78.9	1998	33	1989	24	62.8	1974	43	210	.9	9.4	30.0	.0	.0	.0
Oct	71.7	47.9	59.8	98	1963	13	63.2	1971	18	1993	31	52.4	1976	189	29	.0	1.1	30.8	.0	1.5	.0
Nov	58.4	35.9	47.2	87+	1980	7	55.3	1999	8	1976	29	41.1	1972	537	0	.0	.0	24.8	.2	9.5	.0
Dec	48.6	27.0	37.8	85	1951	31	43.3	1984	-15	1989	23	23.9	1983	843	0	.0	.0	17.9	2.4	19.1	.2
Ann	69.1	46.7	57.9	110+	Aug 1956	6	85.3	Jul 1980	-15	Dec 1989	23	22.7	Jan 1979	4108	1542	9.2	66.4	316.6	8.9	80.0	.9

+ 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

068-A

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Elevation: 925 Feet Lat: 35°30N

Lon: 96°59W

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	1.19	1.23	1.55+	1985	1	3.06	1998	.00+	1986	4.2	2.9	.9	.3	.00	.00	.26	.49	.71	.94	1.20	1.53	1.96	2.63	3.30
Feb	1.98	1.76	6.93	1985	22	9.31	1985	.00	1996	4.6	3.3	1.5	.5	.09	.26	.55	.84	1.15	1.50	1.92	2.44	3.15	4.33	5.49
Mar	3.27	3.19	2.65	1998	16	7.38	1990	.05	1971	6.8	5.1	2.4	1.0	.73	1.04	1.52	1.95	2.38	2.84	3.35	3.97	4.78	6.07	7.29
Apr	3.35	3.22	4.14	1954	30	7.61	1999	.16	1989	6.7	5.2	2.4	1.0	.65	.95	1.44	1.89	2.35	2.85	3.40	4.08	4.97	6.41	7.77
May	5.72	5.96	4.36	1993	9	11.84	1995	.39	1996	9.2	7.0	3.6	1.8	1.31	1.84	2.68	3.43	4.18	4.97	5.87	6.93	8.34	10.57	12.67
Jun	4.80	4.50	5.40	1973	30	11.82	1985	.47	1977	7.9	6.3	2.9	1.6	.76	1.17	1.86	2.53	3.21	3.96	4.82	5.87	7.27	9.55	11.73
Jul	2.50	2.37	3.61	1960	23	9.38	1996	.00	1986	5.5	3.8	1.5	.7	.19	.46	.86	1.23	1.61	2.03	2.50	3.08	3.87	5.14	6.36
Aug	1.93	1.97	3.70	1966	19	5.22	1989	.00	2000	5.6	3.7	1.2	.6	.17	.38	.70	.98	1.27	1.58	1.95	2.38	2.97	3.92	4.83
Sep	4.31	4.58	6.30	1970	23	7.90	1973	.50	1972	6.9	5.3	2.9	1.3	.99	1.39	2.02	2.58	3.15	3.75	4.42	5.22	6.28	7.95	9.53
Oct	4.26	2.54	7.55	1998	18	16.68	1998	.51	1993	5.9	4.5	2.4	1.3	.43	.75	1.33	1.93	2.57	3.29	4.14	5.20	6.65	9.06	11.41
Nov	2.88	2.77	4.01	1996	7	6.93	1992	.04	1989	5.6	4.3	2.1	.9	.29	.50	.89	1.29	1.73	2.22	2.79	3.51	4.50	6.13	7.73
Dec	1.88	1.53	2.10	1991	20	7.04	1984	.10	1978	4.3	3.3	1.2	.5	.13	.25	.49	.75	1.04	1.37	1.77	2.28	2.99	4.18	5.35
Ann	38.07	37.36	7.55	Oct 1998	18	16.68	Oct 1998	.00+	Aug 2000	73.2	54.7	25.0	11.5	25.75	28.09	31.11	33.42	35.49	37.49	39.57	41.88	44.69	48.79	52.36

+ 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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NWS Call Sign:

Elevation: 925 Feet

Lat: 35°30N

Lon: 96°59W

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	2.0	.0	#	0	6.5	1995	23	9.0	1978	8	2000	28	1	1979	1.0	.7	.2	.1	.0	1.8	.7	.2	.0
Feb	.6	.0	#	0	4.0	1978	17	6.0	1979	6+	1979	9	1	1979	.5	.4	.2	.0	.0	.6	.4	.2	.0
Mar	.2	.0	#	0	2.0	1974	21	2.0+	1999	#+	1998	20	#+	1998	.1	.1	.0	.0	.0	.0	.0	.0	.0
Apr	#	.0	0	0	#	1975	3	#	1975	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	1.0	1993	30	1.0	1993	#	1993	30	#	1993	@	@	.0	.0	.0	.0	.0	.0	.0
Nov	.2	.0	#	0	2.5	1980	17	2.5	1980	1	1974	30	#+	1991	.1	.1	.0	.0	.0	@	.0	.0	.0
Dec	.6	.0	#	0	4.0	1971	3	4.0	1971	6	2000	14	1	2000	.3	.2	.1	.0	.0	.1	.0	.0	.0
Ann	3.6	.0	N/A	N/A	6.5	Jan 1995	23	9.0	Jan 1978	8	Jan 2000	28	1+	Dec 2000	2.0	1.5	.5	.1	.0	2.5	1.1	.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	4/30	4/26	4/22	4/20	4/17	4/15	4/12	4/09	4/05
32	4/16	4/11	4/08	4/06	4/03	4/01	3/29	3/26	3/22
28	4/10	4/05	4/01	3/28	3/25	3/22	3/19	3/15	3/09
24	3/26	3/21	3/17	3/13	3/10	3/07	3/03	2/27	2/21
20	3/20	3/12	3/06	3/01	2/24	2/19	2/14	2/08	1/31
16	3/07	2/27	2/22	2/17	2/13	2/08	2/04	1/29	1/21
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	9/26	10/03	10/08	10/12	10/16	10/20	10/24	10/29	11/05
32	10/14	10/19	10/22	10/25	10/28	10/30	11/02	11/06	11/10
28	10/23	10/30	11/03	11/07	11/11	11/14	11/18	11/23	11/29
24	10/28	11/05	11/11	11/15	11/20	11/24	11/29	12/05	12/13
20	11/10	11/17	11/22	11/26	11/30	12/04	12/08	12/13	12/19
16	11/15	11/27	12/05	12/11	12/18	12/24	12/31	1/08	1/19
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	205	197	191	186	181	176	171	165	157
32	225	219	214	210	207	203	199	195	189
28	251	244	239	234	230	226	221	216	208
24	282	273	266	260	254	249	243	236	227
20	308	298	290	284	278	272	266	258	248
16	345	327	318	310	304	297	290	282	271

* 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	950	708	524	246	60	6	0	2	43	189	537	843	4108
60	796	579	373	138	16	0	0	0	14	88	395	688	3087
57	705	501	288	88	6	0	0	0	6	49	315	600	2558
55	645	451	236	62	3	0	0	0	3	31	266	542	2239
50	502	335	130	20	0	0	0	0	0	7	162	402	1558
32	123	69	3	0	0	0	0	0	0	0	8	71	274

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	196	285	503	763	1069	1275	1482	1450	1157	862	461	251	9754
55	5	23	22	135	359	585	769	737	470	180	29	10	3324
57	2	17	13	101	300	525	707	675	413	136	18	5	2912
60	0	10	4	61	217	435	614	582	331	82	9	1	2346
65	0	0	0	19	105	291	459	429	210	29	0	0	1542
70	0	0	0	4	36	165	308	282	118	6	0	0	919

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	100	189	382	613	883	1091	1293	1273	991	692	317	130	100	289	671	1284	2167	3258	4551	5824	6815	7507	7824	7954
45	41	110	255	466	728	941	1138	1118	841	537	207	64	41	151	406	872	1600	2541	3679	4797	5638	6175	6382	6446
50	16	56	153	329	573	791	983	963	691	393	118	29	16	72	225	554	1127	1918	2901	3864	4555	4948	5066	5095
55	2	22	81	207	418	641	828	808	542	258	62	10	2	24	105	312	730	1371	2199	3007	3549	3807	3869	3879
60	0	7	35	115	273	491	673	653	402	146	23	1	0	7	42	157	430	921	1594	2247	2649	2795	2818	2819
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	75	136	246	387	577	751	870	846	654	440	194	91	75	211	457	844	1421	2172	3042	3888	4542	4982	5176	5267

(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