

Climatography of the United States

No. 20

1971-2000

Station: HAMMON 3 SSW, OK

COOP ID: 343871

Climate Division: OK 4

NWS Call Sign:

Elevation: 1,820 Feet Lat: 35° 35N

Lon: 99° 24W

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	47.5	20.1	33.8	84	1952	25	41.2	1990	-15	1988	8	21.3	1979	968	0	.0	.0	15.8	5.4	28.9	.9
Feb	53.6	24.6	39.1	91	1996	23	47.4	1976	-16	1996	4	27.2	1978	726	0	.0	@	17.8	3.2	21.8	.6
Mar	61.8	32.5	47.2	96	1971	27	54.1	1972	-5	1989	4	41.9	1984	553	0	.0	.2	25.8	.6	14.3	.1
Apr	71.3	41.6	56.5	101	1972	12	62.9	1972	17	1975	3	51.0	1983	280	23	@	1.0	28.8	.0	3.9	.0
May	79.3	52.2	65.8	107	1953	23	72.3	1996	29	1960	1	61.3	1983	85	107	.1	4.1	30.9	.0	.1	.0
Jun	88.4	62.9	75.7	115	1980	26	80.8	1980	42	1964	1	70.4	1979	10	330	1.8	15.0	30.0	.0	.0	.0
Jul	94.7	67.7	81.2	111	1954	14	88.1	1980	50+	1975	13	77.1	1987	0	502	7.8	25.2	31.0	.0	.0	.0
Aug	92.8	66.4	79.6	115	1951	6	85.8	1980	46	1994	16	73.3	1992	1	453	5.5	22.8	31.0	.0	.0	.0
Sep	84.3	57.2	70.8	106	2000	5	77.5	1998	29+	1989	24	63.5	1974	41	214	1.4	10.7	29.9	.0	.3	.0
Oct	73.8	44.4	59.1	100	2000	4	64.7	1972	12	1993	31	52.4	1976	213	29	@	1.4	30.5	@	3.5	.0
Nov	59.2	31.5	45.4	89	1980	9	52.0	1999	5	1991	3	40.0	1991	590	0	.0	.0	23.2	.7	16.0	.0
Dec	49.4	22.6	36.0	86	1955	24	40.9	1980	-9	1989	23	24.2	1983	899	0	.0	.0	16.9	3.3	27.2	.5
Ann	71.3	43.6	57.5	115+	Jun 1980	26	88.1	Jul 1980	-16	Feb 1996	4	21.3	Jan 1979	4366	1658	16.6	80.4	311.6	13.2	116.0	2.1

+ 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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No. 20 1971-2000

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

Station: HAMMON 3 SSW, OK

COOP ID: 343871

Climate Division: OK 4

NWS Call Sign:

Elevation: 1,820 Feet Lat: 35°35N

Lon: 99°24W

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	.84	.65	1.26	1999	29	2.40	1999	.00+	1996	3.0	1.8	.5	@	.00	.00	.19	.33	.48	.64	.82	1.05	1.36	1.87	2.36
Feb	.99	.73	2.45	1948	27	3.40	1985	.00+	1995	2.8	2.2	.7	.2	.00	.00	.25	.42	.59	.78	.99	1.25	1.59	2.16	2.71
Mar	2.31	2.27	3.90	1989	28	7.05	1973	.00+	1997	4.4	3.7	1.5	.6	.00	.16	.52	.87	1.26	1.70	2.22	2.86	3.75	5.25	6.72
Apr	2.35	1.87	3.20	1997	4	11.80	1997	.00	1996	4.9	3.9	1.6	.6	.15	.39	.76	1.10	1.47	1.87	2.33	2.90	3.67	4.93	6.15
May	4.63	4.40	5.00	1959	26	10.86	1982	.11	1988	7.3	6.0	3.3	1.5	.59	.96	1.61	2.26	2.94	3.69	4.57	5.66	7.13	9.54	11.88
Jun	3.80	3.83	7.50	1983	11	9.61	1989	.08	1998	6.5	5.2	2.5	1.1	.50	.80	1.34	1.87	2.43	3.04	3.76	4.64	5.83	7.78	9.67
Jul	2.00	1.49	5.35	1975	24	6.50	1975	.00+	1995	3.7	2.8	1.3	.6	.00	.00	.43	.82	1.19	1.58	2.02	2.57	3.30	4.44	5.56
Aug	2.74	1.73	5.79	1969	26	7.49	1997	.00+	2000	4.9	4.1	1.8	.8	.00	.30	.79	1.23	1.68	2.17	2.74	3.42	4.35	5.88	7.36
Sep	3.11	1.96	6.56	1997	23	8.90	1986	.00	2000	5.4	4.7	2.1	.9	.14	.40	.86	1.32	1.81	2.36	3.01	3.83	4.94	6.80	8.61
Oct	2.23	1.94	4.25	1986	3	8.95	1998	.00	1992	4.1	3.3	1.5	.6	.05	.18	.46	.77	1.13	1.54	2.05	2.71	3.62	5.19	6.75
Nov	1.66	1.31	3.23	1994	20	4.49	1992	.00+	1999	4.0	2.9	1.0	.4	.00	.00	.42	.71	1.00	1.31	1.66	2.10	2.67	3.62	4.53
Dec	1.07	.51	2.14	1959	17	4.79	1984	.00+	1988	3.1	2.3	.7	.2	.00	.00	.12	.27	.45	.67	.94	1.29	1.78	2.64	3.50
Ann	27.73	27.09	7.50	Jun 1983	11	11.80	Apr 1997	.00+	Sep 2000	54.1	42.9	18.5	7.5	17.24	19.17	21.69	23.64	25.41	27.13	28.93	30.94	33.41	37.05	40.24

+ 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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Station: HAMMON 3 SSW, OK

COOP ID: 343871

Climate Division: OK 4

NWS Call Sign:

Elevation: 1,820 Feet

Lat: 35°35N

Lon: 99°24W

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	7.0	1973	7	14.5	1973	16	1988	8	2	1973	.7	.6	.3	.1	.0	1.9	1.0	.5	.0
Feb	2.2	.8	#	0	11.0	1971	21	11.5	1971	11	1971	22	1	1979	.6	.5	.4	.1	@	.7	.4	.3	.1
Mar	1.0	.0	#	0	8.0	1994	9	10.5	1994	6	1988	3	#+	1995	.3	.2	.1	@	.0	.0	.0	.0	.0
Apr	.4	.0	#	0	5.0	1973	8	5.0	1973	3	1973	8	#	1973	.1	.1	.1	@	.0	.1	.1	.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	.4	.0	#	0	8.0	1972	19	8.0	1972	5	1992	25	1	1972	.2	.2	.1	@	.0	.3	.2	.0	.0
Dec	2.3	.0	#	0	6.0	1972	15	10.0	2000	14	1987	14	3	1983	.7	.6	.2	.2	.0	.5	.2	.2	.0
Ann	8.3	.8	N/A	N/A	11.0	Feb 1971	21	14.5	Jan 1973	16	Jan 1988	8	3	Dec 1983	2.6	2.2	1.2	.4	@	3.5	1.9	1.0	.1

+ 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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Elevation: 1,820 Feet

Lat: 35°35N

Lon: 99°24W

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	5/04	5/01	4/28	4/25	4/22	4/19	4/16	4/11
32	4/28	4/23	4/20	4/17	4/14	4/11	4/08	4/04	3/30
28	4/15	4/11	4/08	4/05	4/03	4/01	3/29	3/26	3/22
24	4/12	4/05	3/31	3/26	3/22	3/18	3/13	3/08	2/28
20	3/26	3/19	3/14	3/10	3/06	3/02	2/26	2/21	2/14
16	3/21	3/12	3/06	3/01	2/24	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	9/25	9/30	10/03	10/06	10/09	10/12	10/15	10/18	10/23
32	9/30	10/06	10/10	10/13	10/17	10/20	10/23	10/27	11/02
28	10/16	10/21	10/25	10/28	10/31	11/03	11/06	11/10	11/15
24	10/24	10/30	11/04	11/08	11/11	11/15	11/19	11/23	11/29
20	10/28	11/05	11/10	11/15	11/20	11/25	11/30	12/05	12/13
16	11/07	11/15	11/21	11/26	12/01	12/06	12/11	12/17	12/26
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	183	177	173	169	166	163	159	155	149
32	206	199	194	189	185	181	177	171	164
28	231	224	219	215	210	206	202	197	190
24	259	250	244	239	234	229	223	217	208
20	289	279	271	264	258	252	245	238	227
16	315	303	294	287	280	273	266	257	245

* 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	968	726	553	280	85	10	0	1	41	213	590	899	4366
60	813	594	403	170	32	1	0	0	13	109	444	744	3323
57	721	516	318	118	15	0	0	0	5	65	361	651	2770
55	661	465	265	89	8	0	0	0	3	43	308	590	2432
50	514	347	154	36	1	0	0	0	0	12	193	445	1702
32	117	72	5	0	0	0	0	0	0	0	9	74	277

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	172	270	475	733	1045	1310	1525	1475	1164	839	409	198	9615
55	2	19	21	132	340	620	812	762	476	169	18	1	3372
57	1	14	13	101	284	560	750	700	419	129	10	0	2981
60	0	8	5	63	209	471	657	607	336	80	4	0	2440
65	0	0	0	23	107	330	502	453	214	29	0	0	1658
70	0	0	0	6	42	205	351	303	120	7	0	0	1034

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	55	141	298	526	819	1085	1295	1244	946	605	233	69	55	196	494	1020	1839	2924	4219	5463	6409	7014	7247	7316
45	22	76	190	385	665	935	1140	1089	796	456	140	28	22	98	288	673	1338	2273	3413	4502	5298	5754	5894	5922
50	1	33	104	257	511	785	985	934	647	320	70	5	1	34	138	395	906	1691	2676	3610	4257	4577	4647	4652
55	0	8	51	151	366	635	830	779	501	200	29	0	0	8	59	210	576	1211	2041	2820	3321	3521	3550	3550
60	0	0	17	74	232	485	675	624	360	101	7	0	0	0	17	91	323	808	1483	2107	2467	2568	2575	2575
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	77	132	224	352	528	716	845	815	614	397	179	83	77	209	433	785	1313	2029	2874	3689	4303	4700	4879	4962

(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