

Climatography of the United States

No. 20

1971-2000

Station: IDABEL, OK

COOP ID: 344451

Climate Division: OK 9

NWS Call Sign:

Elevation: 460 Feet Lat: 33° 53N Lon: 94° 49W

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	52.7	28.7	40.7	87	1950	26	47.7	1990	2+	1966	30	31.1	1979	753	0	.0	.0	18.9	1.3	20.6	.0
Feb	58.9	32.6	45.8	89	1996	22	53.3	1976	-11	1951	2	34.8	1978	539	0	.0	.0	21.3	.9	13.7	.0
Mar	67.0	40.6	53.8	92	1974	31	58.7	2000	10	1996	9	47.8	1996	353	6	.0	.1	29.2	.1	5.9	.0
Apr	75.0	48.2	61.6	93	1987	19	66.9	1981	21+	1999	17	56.5	1983	143	40	.0	.3	29.9	.0	1.2	.0
May	81.9	57.8	69.9	99	1969	22	75.1	1987	35+	1954	4	65.1	1976	29	178	.0	1.8	31.0	.0	.0	.0
Jun	89.4	65.8	77.6	105	1953	21	80.7	1998	48	1970	3	73.7	1983	0	378	.2	14.6	30.0	.0	.0	.0
Jul	93.8	69.5	81.7	109+	1954	17	87.0	1998	53+	1971	31	78.7	1976	0	517	3.3	24.4	31.0	.0	.0	.0
Aug	94.2	68.3	81.3	110+	1956	6	86.0	2000	49	1967	12	75.9	1992	0	504	4.9	24.4	31.0	.0	.0	.0
Sep	87.1	61.4	74.3	109+	1998	5	79.4	1977	36	1983	22	68.0	1974	12	291	1.1	11.3	30.0	.0	.0	.0
Oct	77.3	49.8	63.6	98+	1953	1	67.8	1971	23	1993	31	55.9	1976	114	69	.0	1.6	30.9	.0	.6	.0
Nov	64.4	39.2	51.8	87	1965	25	59.7	1999	8	1970	20	45.1	1976	402	6	.0	.0	27.2	@	7.7	.0
Dec	55.4	31.4	43.4	82+	1951	31	53.1	1984	-2	1989	23	32.2	1983	670	0	.0	.0	22.0	.9	17.6	.1
Ann	74.8	49.4	62.1	110+	Aug 1956	6	87.0	Jul 1998	-11	Feb 1951	2	31.1	Jan 1979	3015	1989	9.5	78.5	332.4	3.2	67.3	.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

054-A

Climatology 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: IDABEL, OK

COOP ID: 344451

Climate Division: OK 9

NWS Call Sign:

Elevation: 460 Feet Lat: 33°53N

Lon: 94°49W

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	3.16	3.27	4.75	1948	1	8.55	1998	.43	1986	8.2	5.0	2.2	.8	.53	.80	1.27	1.70	2.15	2.63	3.18	3.86	4.76	6.22	7.61
Feb	3.60	3.24	3.42	1975	2	9.70	1997	.73	1972	7.5	5.0	2.5	1.2	.84	1.17	1.70	2.17	2.64	3.14	3.70	4.36	5.24	6.62	7.93
Mar	4.48	4.20	4.15	1977	28	10.02	1977	.83	1974	9.2	6.3	3.1	1.6	1.33	1.76	2.39	2.95	3.48	4.04	4.66	5.38	6.32	7.78	9.14
Apr	4.34	4.11	4.25	1952	22	13.59	1991	.21	1987	8.6	6.0	2.7	1.5	1.01	1.42	2.05	2.62	3.19	3.79	4.46	5.26	6.32	7.99	9.57
May	5.94	5.53	5.35	1996	11	13.23	1990	1.82	1988	10.2	7.3	4.0	1.8	2.01	2.57	3.40	4.09	4.76	5.44	6.19	7.07	8.19	9.93	11.54
Jun	4.37	3.92	4.80	1980	20	8.96	1989	.85	1998	7.8	5.8	2.9	1.5	.94	1.34	1.99	2.57	3.15	3.77	4.47	5.31	6.42	8.18	9.85
Jul	3.65	2.96	5.09	1994	15	10.84	1996	.00	1999	6.2	4.6	2.6	1.3	.07	.27	.71	1.22	1.80	2.48	3.32	4.41	5.94	8.55	11.17
Aug	2.33	1.93	2.99	1993	9	5.74	1996	.13	1985	5.5	3.9	1.7	.7	.21	.38	.69	1.01	1.37	1.77	2.24	2.83	3.65	5.01	6.35
Sep	4.09	3.36	7.10	1955	23	16.15	1974	.06	1982	6.9	5.3	2.6	1.3	.58	.92	1.51	2.08	2.67	3.32	4.07	5.00	6.24	8.27	10.22
Oct	4.90	4.30	5.40	1991	29	12.17	1984	.22	1975	7.9	5.3	2.9	1.7	.70	1.11	1.81	2.49	3.20	3.98	4.88	5.99	7.48	9.90	12.24
Nov	5.26	4.21	7.40	1978	16	17.01	2000	.56	1989	7.9	5.8	3.2	1.9	1.08	1.56	2.33	3.03	3.74	4.50	5.36	6.39	7.76	9.94	12.01
Dec	4.60	4.09	5.11	1971	10	11.91	1971	.99	1981	8.6	6.0	3.1	1.5	1.44	1.88	2.53	3.08	3.62	4.17	4.78	5.50	6.42	7.86	9.20
Ann	50.72	48.07	7.40	Nov 1978	16	17.01	Nov 2000	.00	Jul 1999	94.5	66.3	33.5	16.8	35.46	38.39	42.16	45.03	47.58	50.05	52.60	55.43	58.87	63.86	68.18

+ 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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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: IDABEL, OK

COOP ID: 344451

Climate Division: OK 9

NWS Call Sign:

Elevation: 460 Feet

Lat: 33°53N

Lon: 94°49W

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	.3	.0	#	0	2.8	1988	7	2.9	1988	#+	1997	9	#+	1997	.3	.1	.0	.0	.0	.0	.0	.0	.0
Feb	1.0	.0	#	0	5.5	1979	7	5.5	1979	1+	1997	13	#+	1997	.5	.4	.2	.1	.0	.2	.0	.0	.0
Mar	.2	.0	#	0	2.0	1971	3	2.0	1971	2	1971	3	#+	1998	.2	.1	.0	.0	.0	.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	.1	.0	#	0	.5	1971	23	.5+	1980	#	1997	15	#	1997	.2	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.4	.0	#	0	6.0	1983	16	6.0	1983	1	2000	14	#+	2000	.3	.2	.1	.1	.0	.1	.0	.0	.0
Ann	2.0	.0	N/A	N/A	6.0	Dec 1983	16	6.0	Dec 1983	2	Mar 1971	3	#+	Dec 2000	1.5	.8	.3	.2	.0	.4	.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:

www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: IDABEL, OK

COOP ID: 344451

Climate Division: OK 9

NWS Call Sign:

Elevation: 460 Feet

Lat: 33° 53N

Lon: 94° 49W

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	4/21	4/17	4/14	4/11	4/09	4/06	4/03	3/31	3/27
32	4/16	4/10	4/05	4/02	3/29	3/26	3/22	3/18	3/12
28	4/06	3/29	3/23	3/19	3/14	3/10	3/05	2/28	2/20
24	3/22	3/13	3/07	3/02	2/25	2/20	2/15	2/08	1/31
20	3/05	2/24	2/18	2/13	2/08	2/03	1/29	1/22	1/12
16	2/27	2/17	2/10	2/04	1/29	1/22	1/15	1/03	0/00
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	10/05	10/11	10/16	10/19	10/23	10/27	10/30	11/04	11/10
32	10/20	10/26	10/30	11/02	11/06	11/09	11/12	11/16	11/22
28	10/30	11/04	11/08	11/12	11/15	11/18	11/21	11/25	11/30
24	11/10	11/17	11/23	11/28	12/02	12/07	12/11	12/17	12/25
20	11/19	12/01	12/09	12/16	12/23	12/30	1/07	1/16	1/30
16	12/04	12/14	12/21	12/27	1/02	1/08	1/15	1/27	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	219	212	206	201	197	192	187	182	174
32	244	236	230	225	221	216	211	205	197
28	274	264	257	250	245	239	233	225	215
24	313	302	293	286	280	273	266	258	246
20	>365	353	332	321	312	304	296	287	274
16	>365	>365	>365	357	338	327	318	308	296

* 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:
www.ncdc.noaa.gov/oa/climate/normal/usnormals.html

**Climatography
of the United States
No. 20
1971-2000**

Station: IDABEL, OK

COOP ID: 344451

Climate Division: OK 9

NWS Call Sign:

Elevation: 460 Feet Lat: 33° 53N Lon: 94° 49W

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	753	539	353	143	29	0	0	0	12	114	402	670	3015
60	600	409	216	61	6	0	0	0	2	46	270	522	2132
57	515	333	150	30	2	0	0	0	0	22	202	436	1690
55	458	286	114	17	0	0	0	0	0	12	164	380	1431
50	324	186	47	3	0	0	0	0	0	2	87	257	906
32	40	12	0	0	0	0	0	0	0	0	1	22	75

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	309	397	676	887	1172	1368	1540	1527	1268	978	596	376	11094
55	15	27	76	214	460	678	827	814	578	277	68	21	4055
57	10	18	51	167	399	618	765	752	518	225	47	14	3584
60	2	10	24	108	310	528	672	659	430	155	25	7	2930
65	0	0	6	40	178	378	517	504	291	69	6	0	1989
70	0	0	0	9	81	233	362	354	172	22	0	0	1233

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	147	254	456	640	928	1127	1292	1279	1032	738	376	187	147	401	857	1497	2425	3552	4844	6123	7155	7893	8269	8456
45	76	153	318	492	773	977	1137	1124	882	584	252	99	76	229	547	1039	1812	2789	3926	5050	5932	6516	6768	6867
50	33	83	196	352	618	827	982	969	732	433	150	47	33	116	312	664	1282	2109	3091	4060	4792	5225	5375	5422
55	9	37	106	222	463	677	827	814	582	292	75	21	9	46	152	374	837	1514	2341	3155	3737	4029	4104	4125
60	0	12	47	116	311	527	672	659	438	170	33	4	0	12	59	175	486	1013	1685	2344	2782	2952	2985	2989
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	111	176	293	415	618	772	866	847	688	481	244	133	111	287	580	995	1613	2385	3251	4098	4786	5267	5511	5644

(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