

agweather connection

WEATHER & CLIMATE

Q. WHAT IS WEATHER?

A. Weather is the day-to-day conditions of a particular place.

Q. WHAT IS CLIMATE?

A. Climate refers to the average, or typical, weather conditions observed over a long period of time for a given area.

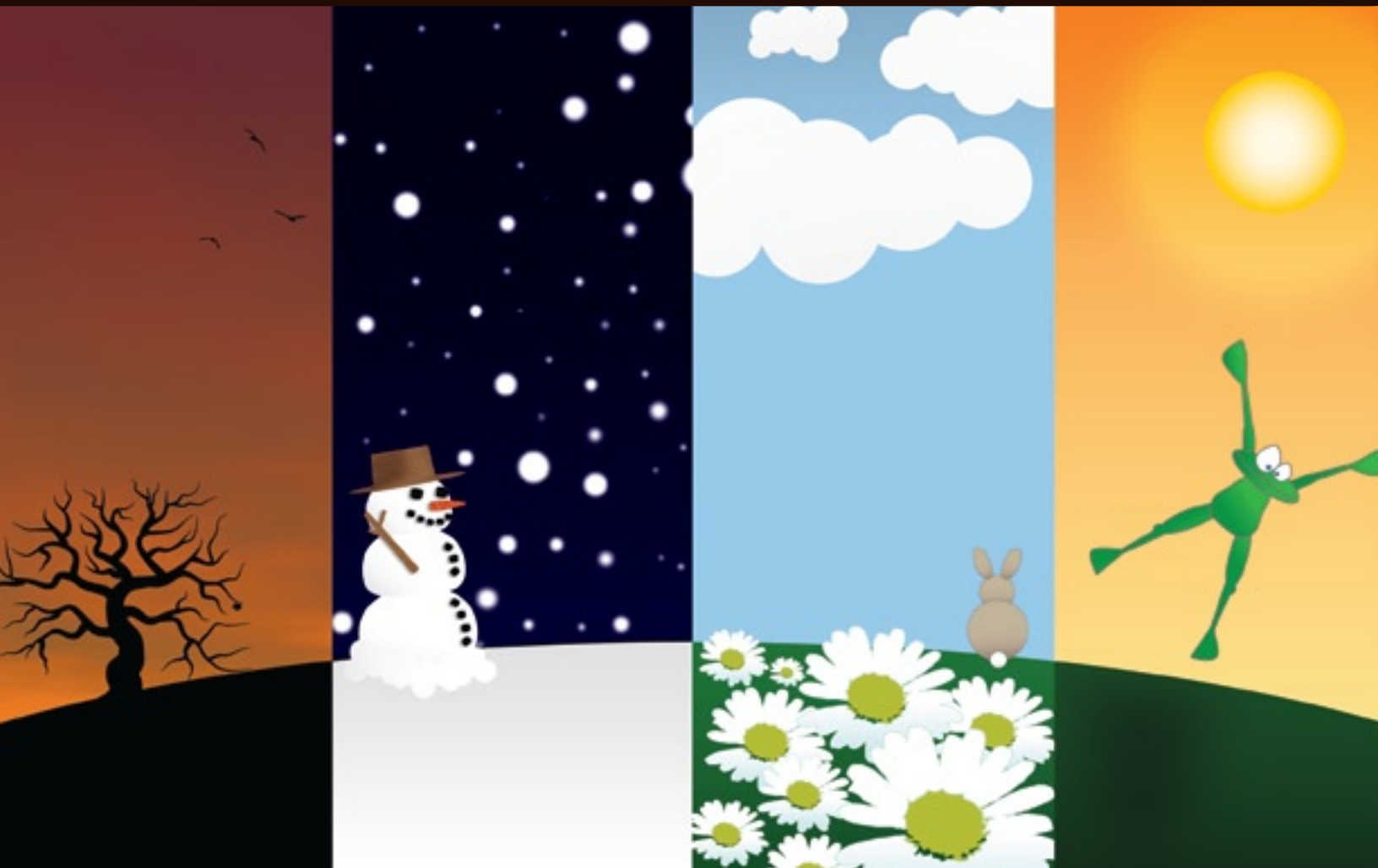
Q. WHO KEEPS TRACK OF OKLAHOMA'S CLIMATE?

A. The Oklahoma Climatological Survey was established in 1980 to provide climate services to

the people of Oklahoma and to conduct research on the impacts of climate on human activities. The Oklahoma Climatological Survey uses the Oklahoma Mesonet to record and archive weather data.

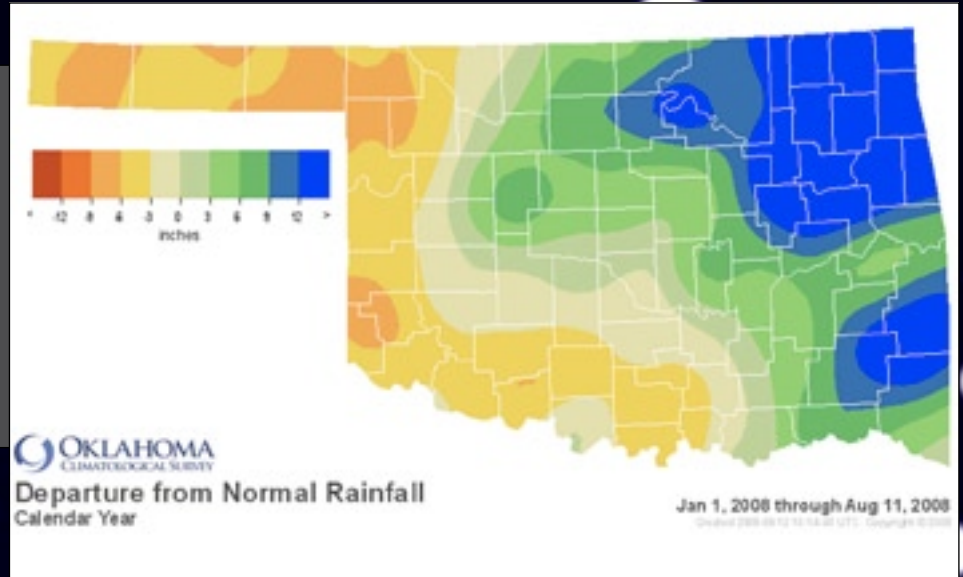
Q. WHY IS CLIMATE IMPORTANT TO AGRICULTURE?

A. Climate can directly affect agriculture in many ways. Climate can impact planting and harvest dates, crop quality, crop insurance, prescribed burning, etc.



Departure from normal rain

- Start at <http://aqweather.mesonet.org>
- Click on "Weather"
- Then click "RAINFALL"
- Choose "OK Rainfall and Drought Update"
- Select "YEAR TO DATE," which is located in the center tool bar
- Scroll to the bottom of this page and select the "Departure" map from the bottom left corner



Recent rainfall

- Go to <http://aqweather.mesonet.org>
- Click on "Weather"
- Then click "RAINFALL"
- Next, click "Recent Mesonet Rainfall Table"

AGWEATHER

Home Weather Soil/Water Radar/Satellite Forecast Climate Livestock Crop Horticulture Range/Forest

ABOUT US CONTACT US NEWS

CURRENT WEATHER MAP

AIR TEMPERATURE

RAINFALL

- 1-1 In Rainfall Accumulation
- 2-2 In Rainfall Accumulation
- 3-3 In Rainfall Accumulation
- 4-4 In Rainfall Accumulation
- 5-5 In Rainfall Accumulation
- 6-6 In Rainfall Accumulation
- 7-7 In Rainfall Accumulation
- 8-8 In Rainfall Accumulation
- 9-9 In Rainfall Accumulation
- 10-10 In Rainfall Accumulation
- 11-11 In Rainfall Accumulation
- 12-12 In Rainfall Accumulation

LINKS

- Recent Mesonet Rainfall Table
- Recent Monthly Rainfall Table
- OK Rainfall and Drought Update
- Radar Query Analysis

WIND

HUMIDITY

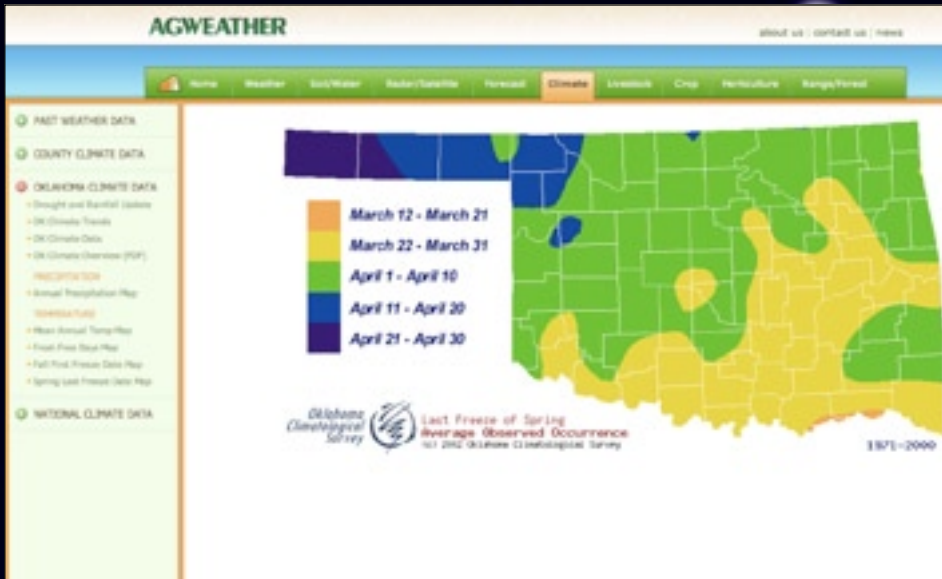
Mesonet Rainfall Totals (in inches)
 Data complete through 11:00 am CDT August 11, 2008

Station	7 Day	10 Day	14 Day	30 Day	60 Day	90 Day	August	2008	2007
Apone	0.10	0.10	0.14	0.98	1.77	6.18	0.10	17.00	-
Ada	1.40	1.40	1.80	2.01	3.09	11.01	1.40	-	48.14
Ada	1.00	1.00	1.70	2.16	3.40	7.16	1.00	14.01	-
Ada	1.00	1.00	1.00	1.70	3.70	11.00	1.00	13.00	-
Adrian	2.87	2.87	3.42	3.42	6.58	11.34	2.87	36.70	48.90
Agate	0.16	0.16	0.42	0.26	4.14	7.58	0.16	18.00	-
Alfalfa	0.86	0.86	0.86	0.86	2.73	7.02	0.86	18.00	38.50
Arrest	0.02	0.02	0.27	0.89	2.57	6.03	0.02	10.06	22.96
Beaver	0.23	0.23	0.33	0.89	4.78	8.78	0.23	17.00	-
Beeve	0.20	0.20	0.36	0.91	1.57	6.07	0.20	17.00	35.00
Bobby	1.88	1.88	1.87	1.90	16.47	20.78	1.88	40.42	-
Broken Bow	0.18	0.18	0.72	0.78	-	-	0.18	-	-
Broken Bow	0.86	0.86	0.86	3.10	4.36	4.84	0.86	0.84	10.44
Broken Bow	5.72	5.72	5.72	6.37	6.70	16.30	5.72	20.64	50.70
Broken Bow	0.10	0.10	0.80	0.86	8.84	18.71	0.10	30.00	-
Broken Bow	2.71	2.71	2.72	3.14	9.58	10.00	2.71	32.04	51.00
Broken Bow	3.91	3.91	4.16	4.16	7.10	11.71	3.91	38.04	-
Broken Bow	0.26	0.26	0.41	0.21	0.71	6.71	0.26	11.11	-
Buffalo	0.15	0.15	0.86	0.87	10.71	18.20	0.15	38.96	58.40
Buffalo	0.36	0.36	1.00	1.11	0.86	0.00	0.36	18.00	36.17
Butler	0.07	0.07	0.72	1.26	1.76	8.04	0.07	10.84	40.00
Byars	1.01	1.01	1.01	1.23	2.54	8.94	1.01	24.29	-
Calvin	3.76	3.76	4.84	6.11	7.18	13.84	3.76	27.72	42.10
Carlisle	0.31	0.31	0.41	1.04	3.18	8.20	0.31	13.84	26.07
Centrahama	1.34	1.34	2.99	2.98	6.83	12.81	1.34	29.36	40.00
Chandler	1.81	1.81	1.82	2.23	7.23	11.88	1.81	27.80	49.80
Cherokee	1.81	1.81	1.90	2.22	7.43	13.49	1.81	-	-
Cheyenne	0.03	0.03	0.06	0.28	1.18	7.02	0.03	13.84	-
Clocktower	0.25	0.25	0.30	0.67	2.22	9.30	0.25	20.20	50.00
Claremore	3.80	3.80	3.84	4.11	14.70	20.84	3.80	-	47.40
Clayton	3.24	3.25	3.40	3.80	8.27	14.18	3.25	44.10	-
Clivity	2.82	2.82	3.36	3.88	8.16	14.40	2.82	39.28	54.74
Cookson	6.21	6.21	6.44	6.74	10.47	20.47	6.21	49.00	48.74
Cotton	3.18	3.18	3.00	6.20	14.00	24.00	3.18	10.10	52.00

Rainfall trends

- Go to <http://aqweather.mesonet.org>
- Click "Climate"
- Next, click "OKLAHOMA CLIMATE DATA"
- Then select the "OK Climate Trends"
- Make sure "Statewide" and "Precipitation" are selected in the top two drop-down menus
- Pick "Annual"





Last freeze date

- Start at <http://agweather.mesonet.org>
- Click "Climate"
- Next, click "OKLAHOMA CLIMATE DATA"
- Now choose "Spring Last Freeze Date Map"

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Adair	36.2	41.8	50.2	58.5	66.2	73.8	79.7	77.7	70.9	60.2	48.7	38.6
Adfala	32.6	38.1	47.2	55.9	67.1	77.1	82.5	80.9	72.2	60.0	45.7	35.6
Alfalfa	38.9	44.6	52.9	61.5	69.4	77.4	82.2	81.8	74.3	63.5	51.3	42.0
Beaver	32.0	37.5	45.7	55.1	64.8	75.1	80.8	78.8	70.2	58.0	44.0	34.5
Beckham	34.7	40.0	47.8	57.2	66.3	75.7	80.5	79.2	71.9	60.1	48.6	37.0
Blaine	34.9	40.2	48.8	58.1	67.8	76.9	82.4	80.8	72.8	61.0	47.2	37.8
Bryan	39.4	44.7	52.5	60.7	69.2	77.2	82.0	81.2	73.9	63.2	51.2	42.3
Caddo	34.9	40.5	48.5	58.2	67.8	76.9	81.5	80.3	72.9	61.0	47.5	37.8
Canadian	34.7	40.2	48.2	58.2	68.0	76.8	82.0	80.4	72.1	61.0	47.2	37.8
Carter	30.3	34.9	42.8	51.8	60.7	70.5	80.2	82.3	74.6	63.9	51.3	42.2
Cherokee	36.8	42.4	51.5	60.3	67.8	75.8	80.4	80.0	72.4	61.7	49.5	39.8
Cherokee	39.8	45.0	52.8	61.1	69.7	77.1	81.7	81.0	73.8	63.5	51.3	42.7
Cherokee	34.8	39.1	48.2	54.2	63.2	72.8	77.8	79.9	68.4	57.0	44.2	36.2
Cleveland	36.3	42.1	50.8	59.8	68.8	76.9	82.1	81.2	73.3	62.0	49.9	39.2
Coal	36.8	44.3	52.7	61.2	69.2	77.2	82.2	81.7	73.9	63.4	51.1	42.0
Comanche	37.1	42.8	50.9	60.0	69.3	78.2	83.3	82.1	73.8	63.8	49.3	39.8
Cotton	38.1	43.8	51.4	60.8	69.1	78.5	83.1	82.4	74.4	63.1	49.9	40.4
Craig	34.7	40.3	49.0	58.0	67.1	76.5	80.5	79.6	71.8	60.8	48.4	38.1
Creek	37.1	42.8	51.8	60.7	68.3	76.1	81.2	80.2	72.2	62.0	49.8	40.0
Custer	35.2	40.8	49.1	58.3	68.6	78.2	83.3	81.9	73.3	61.9	47.6	37.8
Delaware	36.8	42.1	50.8	59.4	68.9	78.7	79.9	79.1	71.8	61.0	49.0	39.8
DeWey	33.4	38.6	47.0	56.5	66.9	76.4	81.2	79.7	71.4	59.2	45.2	35.6
Ellis	32.6	38.1	46.3	55.8	64.9	74.8	79.8	78.4	69.9	58.4	44.6	35.0
Garfield	33.1	38.6	47.2	57.3	67.8	77.1	82.8	80.9	72.8	63.0	49.1	39.1
Garfield	38.9	42.4	50.8	60.0	69.1	77.0	82.2	81.2	73.3	62.8	49.4	40.0
Grady	39.6	44.3	52.2	62.4	71.2	79.3	83.9	82.4	75.0	64.0	51.0	41.3
Grant	32.6	38.2	46.8	56.8	67.8	77.5	82.8	81.0	72.6	62.0	48.0	38.7
Greer	36.8	42.2	50.3	59.8	68.7	77.8	82.1	80.9	72.1	61.8	48.4	38.6
Harmon	38.1	43.7	52.3	61.0	70.2	78.8	83.4	81.8	74.0	62.4	49.2	39.8
Haskell	35.0	41.3	49.7	59.0	68.0	77.7	83.2	81.8	73.0	61.6	48.9	37.7
Haskell	39.6	45.0	53.5	62.0	70.8	79.5	84.0	82.8	75.0	63.0	50.0	41.0

Monthly temperature averages

- Go to <http://agweather.mesonet.org>
- Click "Climate"
- Next, click "COUNTY CLIMATE DATA"
- Now select "Monthly Temperature Table"

TEMPERATURE
 Average Annual: 58 degrees
 Average Maximum: 72 degrees
 Average Minimum: 45 degrees
 Highest: 115 degrees
 (Hammon, August 6, 1951)
 Lowest: -18 degrees
 (Hammon, January 4, 1947)
 Days of 90 Degrees or Higher: 78
 Days of 20 Degrees or Lower: 34

PRECIPITATION
 Average Annual: 27.17 inches
 Days With Precipitation: 62
 Wettest Year: 48.52 inches in 1997
 Driest Year: 11.92 inches in 1956
 Greatest Daily Rainfall: 13.79 inches
 (Cheyenne, April 4, 1934)

OTHER FACTS
 Average Wind Speed: 13 mph
 Sunshine: 65-80%
 Average Humidity: 61%

WINTER WEATHER
 Average Annual Snowfall: 8.7 inches
 Days with snow on ground: 5
 Greatest Seasonal Snowfall: 38.0 inches (1972-1973)
 Greatest Daily Snowfall: 12.0 inches
 (Mackie, December 26, 2000)
 Last Freeze in Spring: April 10
 First Freeze in Autumn: October 24

County climate summary

- Go to <http://agweather.mesonet.org>
- Click "Climate"
- Next, click "COUNTY CLIMATE DATA"
- Select "County Climate Overview"
- Choose a specific county
- Then click on the "Quick Climate Facts" link located near the top of the page

GLOBAL WARMING:

IS THIS FOR REAL?

In regards to global warming, the Oklahoma Climatological Survey concludes the following to be true:

- The earth's climate has warmed during the last 100 years.
- The earth's climate will continue to warm in the foreseeable future.
- Most of the global average temperature increases over the last 50 years can be attributed to human activities.
- Oklahoma will be impacted.

Global warming could potentially affect agriculture in the following ways:

- The warm season becomes longer and arrives earlier.
- The cool season warms and shortens, which leads to a longer frost-free period and growing season.
- Earlier maturation of winter wheat and orchard crops will leave the plants more vulnerable to late freeze events.
- Year-round evaporation from the ground and transpiration from green vegetation will increase.
- Drought frequency and severity will increase, especially during the summer.
- Drier and warmer conditions will increase the risk of wildfires.
- Rain-free periods will lengthen, but individual rainfall events will become more intense.
- More runoff and flash flooding will occur.

To learn more about the Oklahoma Climatological Survey's viewpoint on global warming, [click here](#).

