



# CADDO COUNTY EXTENSION

May 2021

## AGRICULTURAL NEWSLETTER

<https://extension.okstate.edu/county/caddo/caddo.html>

405-247-3376

### Wheat Disease Update

*Bob Hunger, Extension Wheat Pathologist*

Just a brief update to relay that stripe rust continues to increase across Oklahoma. Bryan Vincent (Crop Consultant; north-central OK) reported severe stripe rust in "hot spots" on an unknown variety just north of Lamont, OK (Grant County) close to the Kansas border. In Major County, which is immediately south of Grant County, Josh Coltrain (Winter Wheat Technical Development Lead, Syngenta) reported he had, "found quite high incidence of stripe rust" in Syngenta's plots near Carrier, OK. Here around Stillwater, I have observed severe stripe rust in spreader strips of the susceptible variety Pete.

Examination of leaves reveals severe stripe rust infection associated with yellowing of the leaf. Although the fungicide should protect the green leaves remaining in the field, much of the leaf tissue will be killed from the stripe rust infection. This is a good example of the importance of applying a fungicide to a susceptible variety sufficiently early to prevent such widespread infection. What and how such a big and uniform infection occurred is puzzling to me, but I suspect that is related to overwintering of the stripe rust fungus in the field.

### Upcoming Agricultural Events

May 4	Caddo County Fair Board Meeting / Caddo County Fairgrounds, Baldwin Building / <b>Anadarko, OK</b> / 7:00 pm
May 15	Caddo County 4-H Food Showdown / Caddo County Fairgrounds, Baldwin Building / <b>Anadarko, OK</b> / Starting Time TBD
May 17	Caddo County Cattlemen's Meeting / Caddo County Fairgrounds, Baldwin Building/ <b>Anadarko, OK</b> / Marty New—OSU Area Livestock Specialist / 6:30 pm
June 1	Caddo County Fair Board Meeting / Caddo County Fairgrounds, Baldwin Building / <b>Anadarko, OK</b> / 7:00 pm



(Left Photo) Stripe Rust on Pete. (Bottom Photo) Stripe Rust / (Middle Photo) Severe stripe rust in a susceptible variety (Pete) planted next to resistant breeder lines in a nursery at Stillwater, OK / (Right Photo) Flag leaves infected with Stripe Rust.



Finally, the wheat field days started last week, so observations from those locations will start to appear in subsequent updates. A complete schedule of those field days can be viewed at: <http://wheat.okstate.edu/virtual-plot-tour/2021OSUWheatFieldTours.pdf>



## CADDO COUNTY EXTENSION

Caddo County Cooperative Extension Service  
Oklahoma State University  
1202 E. Central Blvd  
Anadarko OK 73005

### Benefits of Estrus Synchronization and Artificial Insemination

*Mark Z. Johnson, Oklahoma State University Extension Beef Cattle Breeding Specialist*

There are several benefits of estrus synchronization of beef cows. Regardless of when your calving season occurs, manipulating the reproductive process of your cow herd can result in shorter breeding and calving seasons. Accordingly, more calves born earlier in the calving season result in an older, heavier, more uniform calf crop when you wean. Shortened calving seasons permit improvements in herd health and management such as timing of vaccinations and practices that add to calf value with less labor requirements (or at the very least concentrating labor efforts into a shorter time frame). Cows that are closer to the same stage of gestation can also be fed and grouped accordingly which facilitates a higher level of management.

Estrus synchronization can be used for natural mating or breeding by artificial insemination (AI). Synchronization protocols permit us to concentrate the labor needed for heat detection to a few days, and in some cases eliminate the need for heat detection when cows can be bred on a timed basis.

Use of AI permits us to get more cows bred to genetically superior sires for traits of economic importance to our operation's production and marketing goals. Synchronization at the onset of breeding season, results in more cows having heats in the first 18 – 25 days of breeding season. Female's return heats will remain synchronized to a degree, which gives a second chance to AI each female in the early part of breeding season. Without any synchronization, herd managers are faced with a 21 days of continual estrus detection and typically only one opportunity for AI in most females.

Bottomline: estrus synchronization can be an important management tool to get cows settled as early in the breeding season as possible and get cows bred to bulls with highest possible genetic value. A defined breeding season is important to permit meaningful record keeping, timely management and profit potential. Maintaining a 60 to 75 day breeding and calving season can be one of the most important management tools for cow calf producers.

To view Dr. Johnson and Parker Henley's discussion on Replacement Heifers & Breeding Schedules on Sunup TV Cow-Calf Corner from April 24, 2021:

<http://sunup.okstate.edu/category/cc/2021/042421-ccc>

To view a recent Rancher's Thursday Lunchtime Series presentation on Synchronization and AI Tools by Dr. Jordan Thomas from University of Missouri

[https://www.youtube.com/watch?v=PVesshs5\\_8](https://www.youtube.com/watch?v=PVesshs5_8)

### Caddo County Farmers Market

The Caddo County Farmers Market started on May 1st at the corner of Central and 2nd Street where it will meet only on May 1 and May 4. Starting on Saturday May 8th the market will move to the new Delaware Nation's Lenape Gardens which is located just behind Sonic on Highway 62 / 9 in Anadarko. The market will be open from 8:00 am until Noon each Saturday and Tuesday.

Vendors are needed and is now open to more than just vegetables. Crafts and home baked goods (with State Permits) and other items can be sold. The cost for vendor space is only \$20 for the season and it also covers the City of Anadarko Permit. Vegetables must be home/locally grown, out of state resale products are not allowed.

### Podcasts by OSU Agriculture Specialists

Several OSU Agriculture Specialists record podcasts with current topics on Animal Science, Agriculture Economics, Agronomy issues and many other topics. These can be found at the OSU Spotlight website: <http://spotlight.okstate.edu/experience/podcast/> check it out!

### David L. Nowlin

**Ext. Educator: Agriculture**  
[david.nowlin@okstate.edu](mailto:david.nowlin@okstate.edu)

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