

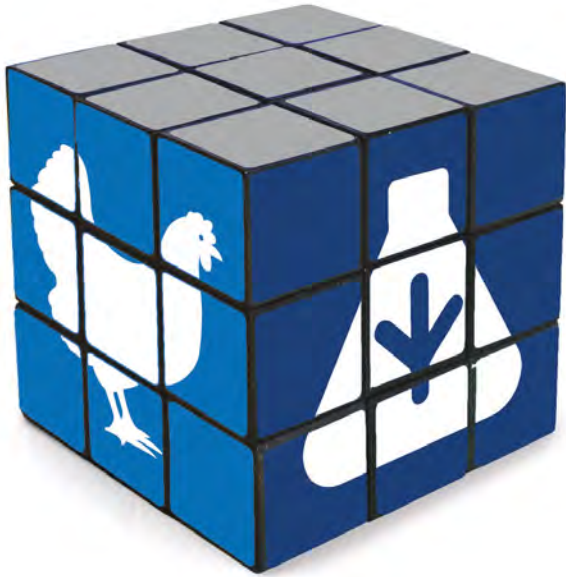
# ALABAMAPOULTRY

THE OFFICIAL MAGAZINE OF THE ALABAMA POULTRY & EGG ASSOCIATION

JULY/AUGUST 2021  
VOL. 16 | NO. 4







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# PRESIDENT'S MESSAGE: JASON SHELL

All I know to say as my opening statement for this last letter of my presidency is THANK YOU from the bottom of my heart. I have said it many times, but what an honor it has been to serve as the president of the Alabama Poultry and Egg Association this past year.

The accomplishments we've made in the last year, despite COVID-19 restrictions, are beyond amazing to me. Without a great team surrounding us each day, none of it would have been possible.

Let us take time to reflect on the accomplishments the association has achieved this year:

- 1) The association worked alongside Agriculture Commissioner Rick Pate to create the "Agriculture Stabilization Program," which distributed millions of dollars back to growers and integrators negatively impacted by the pandemic.
- 2) The association worked with Gov. Kay Ivey's office on the "CARES Act Project."
- 3) The association worked with the Alabama Environmental Management Commission to have changes made to the AFO/CAFO rule, bringing financial savings to the farmers throughout our great state.
- 4) The association worked very closely with Gov. Kay Ivey's office to ensure the

poultry industry remained on the Priority IB essential workers list for the COVID-19 vaccine.

5) We had a successful Evening of Fun with our local talent from Jacksonville, Alabama, Riley Green. Thank you to Riley and his team for all they did to make the concert happen.

6) The association was successful in giving away more than \$56K in scholarships to students pursuing a degree in poultry science at Auburn University and our local community colleges.

I want to say thank you to our entire industry for never giving up and always finding ways to ensure our state and the world continued to be fed through the pandemic. COVID-19 may have created new challenges, but through adversity, we all pulled together as one team and state to show the world we can make it happen.

In closing, I want to thank Johnny Adams, the association staff, the Executive Board and the Board of Directors for their support this year. Without you and your support, none of this is possible. It has been an honor and a privilege to work with you this year.

*Jason*

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## ON THE COVER

Marshall County natives Mike and Regina Carnes were named Alabama 2021 Poultry Farm Family of the Year in June.

*Photo by Caleb Hicks.*





1st place team: Mark Cates and Brad Lenoir



2nd place team: Ryan Heffel and Reece Howell

# EVENING OF FUN

## FISHING TOURNAMENT

Alabama Poultry and Egg Association, or APEA, hosted its annual Big Bass fishing tournament May 7 after cancellation last year because of the COVID-19 pandemic. More than 40 boats zipped across Lake Guntersville in support of the association's Alabama Poultry Foundation, which supports its political action committee.



Jamie Ford reeled in a 3.74 pounder to claim the \$1,000 prize for biggest fish, which was sponsored by California Pellet Mill.



3rd place team: Jamie Ford and Alan Dunn



5th place team: Paul Conner and John Cadwell



4th place team: Brian Hinton and Heath Morrow



6th place team: Trey Sorrells and Josh Graben





1st Place Team: Josh Hoffman, Jamie Courington, Kirk Albright and Nick Bosque



Closest to the Pin: Kirk Albright



Closest to the Pin: Andrew Favant



Closest to the Pin: B.J. Albright



Closest to the Pin: Keith Blackwood

# EVENING OF FUN

## GOLF TOURNAMENT

Two weeks after the fishing tournament, APEA held its annual spring golf tournament at Silver Lakes in Gadsden. With nearly 100 participants, funds raised from the event also went to the Alabama Poultry Foundation.



2nd Place Team: Jeff Sims, Matt Jackson, Will McKee and Kevin Buchanan



3rd Place Team: Adam Langley, Clay Allen and Miller Bonds



4th Place Team: Bart Smith, Alex Smith  
Not pictured: Jay Gruhn and Ricky Rhodes





# EVENING OF FUN CONCERT

Country music sensation Riley Green brought the house down at APEA's Evening of Fun concert June 12. The concert, cancelled last fall because of COVID-19, was a welcome sight among attendees at the Birmingham-Jefferson Convention Complex.

Johnny Adams, association CEO, said the concert was a success.


"We were thrilled to once again bring the Evening of Fun back to our

patrons this year," Adams said. "We appreciate every person and company who purchased a ticket or tickets in support of this important fundraising event for our organization. If it weren't for the backing of them and the poultry industry, we wouldn't be able to be here."

Preparations for the 2022 Evening of Fun will begin in early January.



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Alabama food bank executives gathered with Alabama Agriculture Commissioner Rick Pate in Montgomery in late April for the egg donation press conference.

## CAL-MAINE FOODS DONATES 280,000 EGGS TO ALABAMA FOOD BANKS

BY: CALEB HICKS

Mississippi-based Cal-Maine Foods Inc. donated 280,000 eggs to Alabama food banks in late April.

Cal-Maine, which has facilities in Baldwin County, also donated eggs in 2020 during the COVID-19 pandemic and is in its second year of partnership with the Alabama Department of Agriculture and Industries, or ADAL, to facilitate the donation.

Agriculture Commissioner Rick Pate said the donation comes at an influential time, as families are still recovering from the pandemic, and he thanked Cal-Maine for its donation.

"Eggs are a powerhouse, contain disease-fighting nutrients and are an excellent source of protein," Pate said. "This donation will ease the minds of many Alabamians who are food insecure. We appreciate Cal-Maine's donation of eggs, which will be dis-



Commissioner Pate helped facilitate the 280,000 egg donation to Alabama food banks.

tributed across the state to help those in need."

Alabama's food bank network is part of Feeding America, the nation's largest domestic hunger-relief organization. According to ADAL, the Feeding America network supplies meals to

approximately 40 million Americans at risk of hunger and provides 4.3 billion meals annually.

Food Bank of North Alabama's Shirley Schofield said the eggs are a huge benefit to the people the organization serves.

"This is a wonderful opportunity for us in our community," said Schofield, executive director of the Huntsville-based food bank. "We're working toward not just having eggs as a treat but being able to keep them on hand at all times. A donation like this helps us make that happen."

Cal-Maine Foods Inc. is the largest producer and marketer of shell eggs in the United States. In 2019, it sold around 1,039 million dozen shell eggs. Cal-Maine manages a total flock of approximately 36.2 million layers and 9.4 million pullets and breeders. 🐔





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# BROILER HOUSE LAMP AND LIGHT DIMMER BASICS

BY TOM TABLER, PH.D., EXTENSION PROFESSOR; JESSICA WELLS, PH.D., ASSISTANT CLINICAL/EXTENSION PROFESSOR; AND JONATHAN MOON, POULTRY OPERATION COORDINATOR, - MISSISSIPPI STATE UNIVERSITY EXTENSION

Issues with LED lamps and light dimmers in poultry houses continue to plague the poultry industry. It's time to get past the finger-pointing stage and solve the problem. And the problem can be solved. However, everyone from both the lamp and dimmer sides needs to work together to educate integrators, distributors and growers on what combinations will and will not work in a poultry house situation. A variety of different light dimmers and a multitude of different LED lamps are used in poultry houses today.

Unfortunately, many of these various combinations in use today were never meant to be combined in the first place. Some combinations of lights and dimmers work well together. But many combinations are not working and are leading to premature lamp failures, flickering, ghosting, dead travel, etc., resulting in unhappy growers and integrators. The main point of emphasis that integrators, growers and distributors must understand is that we can spend good money once, address the issue and move on to something else, or continue to spend bad money over and over again and still not solve the problem.

## SOME FACTS

First, incandescent lamps are nothing like LED lamps. Leading-edge light dimmers are nothing like trailing-edge light dimmers. The two dimmer styles and the two lamp styles are so different that they are practically total opposites.

Incandescent lamps and leading-edge light dimmers work well together. LED lamps and trailing-edge light dimmers work well together. However, leading-edge light dimmers and LED lamps are NOT compatible and do NOT work well together. It is that simple.

Fewer than 15 years ago, there were basically no LEDs in use in poultry houses, but today, we are using a wide variety of LED lamps. Many of these lamps have an excellent track record in agricultural settings. Unfortunately, though, many more have no place in a poultry house environment. While these may be less expensive than LED lamps rated for agricultural applications, they are LED lamps made for less demanding residential applications and will simply not hold up in a harsh chicken house environment, regardless of the light dimmer being used.

Poultry growers continue to see too many lamp failures long before their time. There are now a handful of folks with a pretty good understanding of why this is happening, but most poultry growers, integrators and distributors that market both the lamps and the light dimmers are still trying to grasp what the problem is. If we are ever going to turn the corner on this issue, there are some terms and definitions that all of us need to be aware of and understand.

**Omni-directional lamp (omni)** – A residential-grade lamp that gives off light in all directions — top, sides and

bottom of the lamp. A good lamp in a chicken house puts light directly on the floor where the chickens are located. Most of the light directed to the walls and ceiling is wasted in a chicken house because the chickens are on the floor. The net effect is that only 50–60 percent of an omni's light output reaches the birds.

**Directional lamp** – Emits a wall of parallel rays in the direction that the light is facing. A light hanging from the ceiling puts almost all its light on the floor.

**Beam spread** – The amount of effective space a light covers from different distances.

**Watt** – The basic unit of electrical power; amount of energy an item needs to function; equal to current (amps) multiplied by voltage (volts). Wattage is not a measure of light output.

**Lumen** – The total amount of visible light output from a lamp (brightness).

**Foot candle (fc)** – A non-metric unit of light intensity defined as 1 lumen per square foot. (1 fc = ~10.76 lux).

**Lux** – Metric unit of light intensity defined as 1 lumen per square meter.

**Dead travel** – When changing the light dimmer setting produces no visible change in light level. This happens because, unlike incandescent lights, LEDs do not dim in a linear fashion.

**Ghosting** – When light is still visible from the LED lamps even when the dimmer is fully off. This can occur because LEDs operate on DC instead





Figure 1. LED light meter used to measure light level.



Figure 2. Light level at feed pan (0.68-foot candles) in a broiler house.

of AC power. The driver in the lamp is trying to find enough current, even though the dimmer switch may be off, to keep the lamp burning. It may also occur if the circuitry is too old or poorly maintained to properly regulate smooth current flow.

**Drop out** – When the LED lamp shuts off completely at a low dimmer level instead of continuing to dim down.

**Pop on** – When the LED lamp suddenly turns on completely instead of gradually coming on as the dimmer switch is raised from the fully off position.

**Flicker** – Results from a limited amount of current being applied by the driver that is not enough to keep a constant current flow to the individual LEDs in the lamp.

**Leading-edge dimming** – Uses a current that is turned off as the AC waveform begins, right after it crosses zero. It is commonly used with incandescent lamps and produces a rush of voltage every half cycle, resulting in a high inrush of current to the light source.

**Trailing-edge dimming** – Uses a current that is turned off as the AC waveform ends, just before it crosses zero. This type of dimming is designed for lamps with electronic drivers (CFLs and LEDs) and does not result in a rush of voltage (and, in turn, an inrush of current) to the light source.

**Triode alternating-current (TRIAC) dimmer** – Designed for resistive loads such as incandescent or halogen lights. Leading-edge dimmers typically use TRIAC switches to control power.

Unfortunately, these dimmers are not compatible with LEDs because LEDs do not appear as a resistive load to the dimmer, and the LED drivers will not perform as expected with TRIAC dimmers. LEDs are a capacitive load, not a resistive load.

Metal oxide semiconductor field effect transistor (MOSFET) dimmer – A semiconductor device widely used for switching purposes. MOSFET devices can control the voltage and current flow between the source and drain terminals. Trailing-edge dimmers often use MOSFET rather than TRIAC switches. Trailing-edge dimmers are much newer than leading-edge dimmers and were developed, in part, to eliminate the high inrush current when dimming low-voltage lamps.

MOSFET dimmers offer better performance with the capacitive nature of LED drivers.

Determining proper light level in a broiler house is difficult without a light meter (Figure 1). Many service technicians now carry light meters. LED light meters cost less than \$150. Take light measurements at bird level at various locations (directly under a lamp, between lamps, at a wall, etc.) to determine light levels in the house (Figure 2). Different light dimmers often dim differently because of how the lighting curve in the dimmer responds. As a result, light levels may be different between houses even though the dimmers may all be set at the same dimming level, making a light meter a critical piece of equipment.



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Issues often occur in certain low-end lighting situations found in today's broiler houses. In these situations, very low light output is required when the dimmer is set at a low level. However, the lamp's dimming performance depends on how well the dimming range of the dimmer matches the dimming range of the drivers in the LED lamp. Problems occur when the two do not closely match. Unfortunately, even though LED lamps must be compatible with phase dimmers, there is no industry standard that defines characteristics of light dimmers on the market today. Therefore, we are seeing compatibility issues between the variety of dimmers on the market and the multitude of LED lamps on the market. As a result, we may see one brand of dimmer work with one brand of LED lamp but not work with another.

As a general rule, only trailing-edge dimmers should be used with any dimmable LED lamp. Because leading-edge dimmers cut the front edge of each AC sine wave's half-cycle, a huge inrush

of current flows through the lamp's circuitry, eventually damaging the electronic drivers and LED chips, leading to premature lamp failure. Trailing-edge dimmers, on the other hand, cut the back half of the AC sine wave, where the output voltage rises relatively slowly and avoids the huge current spikes that leading-edge dimmers send into capacitive-load LEDs, thereby reducing stress on the electronic drivers and LED chips and extending lamp life.

What does this all mean for the chicken grower, integrator and lamp and dimmer distributor? Perhaps most important, if you are using LED lamps in the chicken house, you should be using a trailing-edge dimmer to dim those lamps. If you aren't, expect problems. If your dimmer has both leading-edge and trailing-edge capabilities, be extra cautious that someone (you, your service tech, the catch crew, etc.) does not switch the dimmer to a leading-edge channel and then fail to switch it back. Preferably, use directional LED lamps with an agricultural

rating that indicates they are designed for chicken house applications.

If you are using omni-directional LED lamps with a smaller heat sink and lesser craftsmanship in a chicken house, expect problems. We can't hazardously throw together a hodgepodge of lamps and dimmers and expect not to have issues. Unknowingly however, that is exactly what we have done. And until we take the necessary actions to correct those missteps, lamp failures will continue. Using the right LED lamp in combination with the right light dimmer will solve many of the issues currently being experienced with premature lamp failures and erratic dimming behavior.

#### THE BOTTOM LINE

Any combination of lamps and dimmers that delivers improper lighting and dimming does nothing but "cheat the chickens." Cheating the chickens comes with a price that always seems to be reflected on the settlement sheet. 🐔



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# CARNES SELECTED AS 2021 POULTRY FARM FAMILY OF THE YEAR

..... BY: CALEB HICKS .....



The Carneses were presented with a farm sign courtesy of APEA and were joined by Koch Foods of Gadsden officials. From left are complex manager Harold Hunt, service technician Meredith Taylor, Mike and Regina Carnes and breeder manager Ross Smith.

Mike Carnes worked for Monsanto five years before, in 1981, he built four breeder houses with his wife, Regina, in the Horton community.

"Luckily, the plant shut down, and I was able to start farming full time," Mike said. "To look back and think about what all we've been through and how we got to where we are now is really something."

Now full-fledged pullet producers for Koch Foods of Gadsden with nine houses in operation, the Marshall County natives were honored at Alabama Poultry and Egg Association's, or APEA's, annual Evening of Fun in Birmingham June 12.

“We love what we do every day. Raising my children and now my grandchildren on our farm has taught them there are things that can't just be given out to you.”

REGINA CARNES





*Top left, the Carneses and their family were recognized at APEA's Evening of Fun June 12. Bottom left, with 40 years in the poultry industry under his belt, Mike said he has no plans to retire any time soon. Above, Marshall County pullet producers Mike and Regina Carnes were named APEA's 2021 Poultry Farm Family of the Year in June.*

Mike said the takeaway from the award is nothing less than honorable.

"We've been involved in this industry for 40 years," Mike said. "This is truly an honor we never expected. It makes me proud to be a poultry grower and a part of the poultry industry here in Alabama."

Koch Foods complex manager Harold Hunt said the Carneses exemplify the qualities and practices to achieve the recognition, which was determined by farm accomplishments, public service involvement and environmental stewardship.

"Mike and Regina have grown their small farm they started 40 years ago into a family business," Hunt said. "Koch Foods began as a no-name company in Alabama. Now, our growers are getting the recognition they deserve, and I'm proud the Carneses are some of our growers."

Regina said their farm has provided more than just a source of income for her family.

"We love what we do every day," she said. "Raising my children and now my grandchildren on our farm has taught them there are things that can't just be given out to you. They learned strong work ethics, which I believe has helped them in so many ways."

APEA's Ray Hilburn said the Carneses are worthy recipients of the farming award.

"Mike and Regina have seen many changes throughout their time and dedication in the poultry industry," said Hilburn, APEA associate director. "The accomplishments they have made on their farm in four decades prove they are deserving of this high honor. We are blessed to have them as part of our poultry family."

The Carneses attend Bethany Baptist Church and have twin 36-year-old daughters, Jenna and Stefanie. Jenna and her husband, Ross Pinney, recently moved back to Horton with their 4-year-old daughter, Maddux. Stefanie and her husband, Josh Terrell, along with their son and daughter, Jacob, six, and Kaylee, 18 months, live across the road from the Carneses. Josh works on the farm with Mike.

In addition to the pullet houses, the Carnes have 200 brood cows on pastureland and produce their own hay. Mike has board member positions with the Marshall County Farmers Federation and Marshall County Cattlemen's Association, while Regina serves on the Marshall County and State Women's Leadership committees.

Getting to a stopping point on the farm is something that is not in the foreseeable future for Mike.

"It'd be nice to slow down," he said. "But I don't think I'll ever be able to fully retire. I just love what we do so much." 🐔





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# AVIAGEN'S DE BEER ELECTED TO US POULTRY AND EGG ASSOCIATION BOARD OF DIRECTORS

HUNTSVILLE, Alabama – Marc de Beer, president of Aviagen® North America, is among four industry leaders recently appointed to the Board of Directors of the U.S. Poultry and Egg Association, or USPOULTRY.

USPOULTRY is one of the world's largest and most active poultry organizations and is responsible for bringing thousands of industry professionals from around the globe together in Atlanta each year for the International Production and Processing Expo.

De Beer will benefit USPOULTRY and its members with knowledge and insight based on extensive education

and experience, along with a passion to drive innovation in the industry.

"I am honored to be named to the USPOULTRY Board of Directors and look forward to working with the association in its endeavor to leverage research and technology to lead the industry forward," de Beer said. "USPOULTRY and Aviagen share a common commitment to bird welfare, health, efficiency and productivity, as well as food safety and security. These areas are key to our success in feeding the world with a nutritious, affordable protein and to sustaining our planet for future generations."



After receiving a Ph.D. in animal nutrition from the University of Arkansas, de Beer began his career as a nutritionist for Aviagen in 2007 and later became global head of Nutrition.

In 2011, he joined DSM Nutritional Products, serving in various leadership positions, and then went on to serve as senior vice president of Food Animal and Global Nutritional Health for Elanco Animal Health. Last year, he was named president of Aviagen North America. 🐔



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# GREENVILLE'S BIG CHICKEN FINDS FINAL ROOSTING PLACE

BY: CALEB HICKS

When Greenville native Beth Chapman heard her home church was auctioning off an iconic 10-foot-tall fiberglass chicken to benefit its food pantry ministry, she knew she was going to win it.

Chapman, a political and public relations consultant and former Alabama secretary of state, said she didn't have a place for the giant bird, but she had a plan. She would offer it to the second-highest bidder if he or she also paid their bid.

That bidder turned out to be her lifelong friend and fellow Greenville native Kathy Murphy.

"I feel truly blessed to give to the church I was raised in," Chapman said. "Not only did Kathy pay her bid, but she matched my bid. The past year has been difficult for most everyone, and the giant chicken gave people something to laugh about and have fun with."

According to Chapman and Murphy, who attended church together as young girls, they've challenged each other nearly their entire lives but competing for a 10-foot-tall chicken statue was definitely different.

"We grew up together," Chapman said. "She's three years older than I am, but she's always been a role model to me."

"Oh, you just had to throw that in there," said Murphy, joking about the

*Greenville natives and life-long friends Beth Chapman, left, and Kathy Murphy, right, participated in a bid war for an iconic 10-foot-tall fiberglass chicken in late April. The two were able to donate \$10,000 toward Southside Baptist Church's food ministry, who put on the auction.*



“*I’ve taken a lot of friendships, a lot of lessons learned and a lot of faith with me throughout my life. What we’ve really done is give back something that’s not even ours to begin with.*”

BETH CHAPMAN

age difference. “Beth always made me up my ante throughout my life, in a good way — whether we were playing sports, in our careers or a bid war for a 10-foot-tall fiberglass chicken. What better way to support such a good cause while having fun at the same time?”

Murphy has enjoyed a successful career in higher education and currently serves as Gadsden State Community College president. The two women have remained life-long friends.

Sparked by an idea when Southside Baptist Church purchased the old Dairy Dream building the chicken sat atop, the auction, held in late April, garnered \$10,000 toward the church’s Shepard’s Table food pantry ministry.

Southside’s Senior Pastor Herbert Brown said folks were crowing about the avian auction once the event was publicized on the internet.

“We had no idea there would be so many people interested in it,” Brown said. “When we opened the bidding, I was blown away. The money will benefit our ministry tremendously and will continue to allow our mission to prosper by providing more resources, including freezers, shelves and other important items.”

Brown said the food pantry ministry serves about 300 bags of food items to the community twice a month. Chapman said donating to the ministry comes full circle.

“As sentimental as it sounds, my grandmother actually worked at the Dairy Dream for a brief time, and she and my second cousin started this



*The 10-foot-tall chicken will find its final roosting place on Kathy Murphy's farm in Greenville.*

church in the early '50s,” Chapman said. “Two generations later, it means a lot to me to be able to have the means to work with my good friend to benefit our home church. I know my grandmother would be proud.”

The big bird, which fell from its perch during a storm last year, was considered a Butler County landmark in the county seat.

“There is no telling how many times I have passed that chicken, but I never would’ve thought I’d own it one day,” Murphy said. “I’m going to get it restored and prepare his final roosting place on my (Greenville) farm.”

For Murphy, the bid war brought back memories with Chapman as well as an appreciation for God and relationships.

“Beth and I were always pretty mischievous growing up,” she said. “What

she couldn’t figure out how to get into, I could. We’ve both been blessed by God and to be able to give back to the church we grew up in is really cool.

“To realize this gift has the opportunity to help so many and knowing you can’t outgive God is simply humbling,” Murphy said. “I wouldn’t give anything for having been reared at Southside, and I wouldn’t give anything for the relationships I was able to cultivate and develop here in Greenville.”


Chapman agreed.

“It’s a foundation of faith that’s never left me, even though I haven’t stayed here,” she said. “I’ve taken a lot of friendships, a lot of lessons learned and a lot of faith with me throughout my life. What we’ve really done is give back something that’s not even ours to begin with.” 🐔



# ECONOMIC IMPACT OF A NEW BROILER HOUSE IN ALABAMA

The entry of a new 39,600-square-foot (66' × 600') broiler house in Alabama causes a measurable increase in economic activity within the state in terms of construction and ongoing annual operations. Consider the following economic activity created during construction and a broiler house's first year of operation.

**34%**   
**INPUT**

A broiler house in Alabama sources roughly 34% of all inputs locally.

  
**OUTPUT (SALES)** **\$1.5 MILLION**

is supported each year from ongoing operations; \$798,918 during the construction phase.

  
**JOB CREATION**

**4** jobs are supported each year from ongoing operations; 6 during the construction phase.

  
**TAXES PAID**

**\$90 THOUSAND** is supported each year from ongoing operations; \$87,105 during the construction phase.

  
**\$357 THOUSAND**  
**LABOR INCOME**

is supported each year from ongoing operations; \$290,848 during the construction phase.

  
**VALUE ADDED**  
**\$504 THOUSAND**

is supported each year from ongoing operations; \$395,594 during the construction phase.







# Made From Scratch

If your summer garden is teeming with zucchini, Katrina Adams highly recommends you try her recipe for Double Chocolate Zucchini Bread. This rich, super-moist treat is a delight to your taste buds, and the aroma as it bakes is sheer pleasure. The recipe yields two loaves, one for your family and one to share.

For a quick lunch or light dinner, the Birmingham food blogger's chicken roll-ups fit the bill, while her sauce-topped meatloaf featuring ground turkey makes for hearty and healthy fare. Finally, Adams's Lemon Bars with cream cheese frosting are delicious summertime treats.



*Katrina Adams, better known as K Marie, shares her passion of cooking and entertaining through her blog, [In the Kitchen with K Marie](http://IntheKitchenwithKMarie.com). See more of her recipes at [kmariekitchen.com](http://kmariekitchen.com).*

## TURKEY MEATLOAF

**Prep time:** 10 minutes

**Cook time:** 1 hour–1 hour 15 minutes

**Makes:** 10 slices

- 2 pounds ground turkey
- 1 envelope dry onion soup mix
- 3/4 cups rolled oats or dry breadcrumbs
- 2 eggs
- 1/4 cup ketchup

### Sauce:

- 1/4 cup ketchup
- 1/4 cup barbecue sauce
- 3 tablespoons packed brown sugar

Preheat oven to 350 degrees. In a large bowl, combine ground turkey, soup mix, oats, eggs, ketchup and salt and pepper to taste. Mix well until all ingredients are blended. Place in a glass loaf pan, pressing down to evenly distribute mixture in the pan. Mix sauce ingredients in a bowl and set aside. Bake meatloaf, uncovered, 45 minutes to 1 hour. Remove from oven and drain well. Pour the sauce on top and bake 10 more minutes. Allow to rest 10 minutes before slicing.





### DOUBLE CHOCOLATE ZUCCHINI BREAD

**Prep Time:** 20-25 minutes

**Cook Time:** 1 hour 45 minutes

**Servings:** 12 slices per loaf

- 2 cups grated zucchini
- 1 1/2 cups oil
- 3 eggs
- 1 1/2 cups milk
- 2 teaspoons vanilla
- 4 cups flour
- 1/2 cup cocoa
- 1 1/2 cups granulated sugar
- 1 teaspoon baking soda
- 1/2 teaspoon baking powder
- 3/4 teaspoon salt
- 1/2 teaspoon cinnamon
- 1/4 teaspoon nutmeg
- 1 cup miniature semi-sweet chocolate chips

Heat oven to 350 degrees. Grease two 8- by 4-inch loaf pans and set aside. Grate zucchini into a medium bowl and blend in oil, eggs, milk and vanilla. In a large bowl, combine flour, cocoa, sugar, baking soda, baking powder, salt, cinnamon and nutmeg. Stir zucchini mixture into dry ingredients until just blended. Stir in chocolate chips. Pour batter into prepared pans. Bake 1 hour and 45 minutes, or until a toothpick inserted in the center of the bread comes out clean. Cool on wire rack 10 minutes. Remove from pans and cool completely.

### LEMON BARS

**Prep Time:** 20 minutes

**Cook Time:** 45 minutes-1 hour

**Serves:** 12

- 1 (18.25-ounce) box lemon cake mix
- 3 eggs, divided
- 3 cups confectioner's sugar
- 1 stick butter, melted
- 1 (8-ounce package) cream cheese, softened

In a bowl, combine cake mix, 1 egg and melted butter. Mix well. Spread batter into a greased 9- by 13-inch pan. Bake at 350 degrees for 45 minutes to 1 hour. Cool completely on wire rack. Meanwhile, cream confectioner's sugar, 2 remaining eggs and cream cheese together. Spread over cooled cake, and cut into squares.



### CHICKEN ROLL-UPS

**Prep Time:** 10 minutes

**Cook Time:** 20 minutes

**Serves:** 4

- 8 ounces grilled chicken, shredded
- 1 tomato, diced
- 8 teaspoons feta cheese
- 4 (8-inch) flour tortillas
- Salsa or salad dressing, for serving

Layer first three ingredients in each tortilla and roll tortillas up. Heat a griddle to 325 degrees; brown roll-ups on all sides and until filling is hot, about 1-2 minutes per side. Serve with salsa or salad dressing.







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## PRACTICAL APPLICATIONS

# CHECKING FANS FOR PULLEY ALIGNMENT

Jess Campbell, Jeremiah Davis, Kelly Griggs, Carson Edge and Martha Rueda  
National Poultry Technology Center at Auburn University – July/August 2021



**Wearing fan belts out prematurely? Check fans for pulley alignment.**

There are many tasks associated with keeping poultry exhaust fans in top performing order during hot weather and extended hours of fan operation. We often promote replacing worn belts, tensioner servicing, checking pulleys out for wear and cleaning shutters, but sometimes we forget to mention the importance of pulley alignment. We have been on farms recently that have had several motor pulleys out of alignment. Time spent on this preventative maintenance task can save you a lot of time and money in the long run.

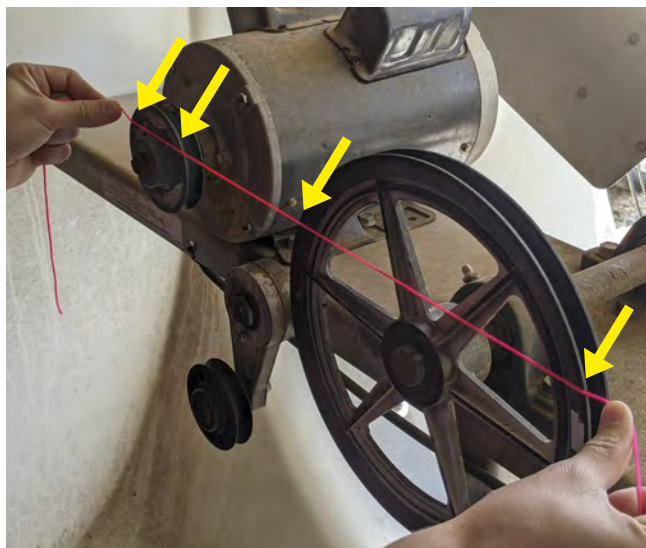
**What tools can be used to test for pulley alignment?**

There are several different ways a producer can check for pulley alignment. The string method, yardstick method or laser alignment method. Below are a couple of examples of us conducting pulley alignment checks in the field. This can easily be done and can save a lot of money in replacement belts and dollars lost in inferior fan performance and windspeed this summer.

**How do I check for pulley alignment?**

String or yardstick method. Disconnect power to each fan being tested. Remove fan shutter or inlet screen cover. Stretch a string from both outside edges of the motor and fan pulleys, Figure 1. This can be done on the side of easiest access. Check to make sure the string has two points of contact per pulley, four total points of contacts, the yellow arrows in Figure 1. If you only have three points of contact, this would indicate a potential misalignment. The yardstick method, Figure 2, would be the same as the string method, and again, you are looking for four total points of contact on the same side of the pulleys.

Figure 3 shows the use of a string and Figure 4 shows the use of a yardstick to assess pulley alignment. The left photos of both Figures 3 and 4 show that this tunnel fan pulley is roughly 5/8 inch out of alignment. We loosened the set screw holding the pulley on the fan shaft and adjusted the pulley until the string and ruler made the correct contact, as shown in right photos in Figures 3 and 4.



*Figure 1: Use a small length of string to stretch across both the fan and motor pulleys. You want to have four points of contact shown by the yellow arrows. Make sure to not lap over the raised area near the shaft, as this will give a false reading.*



*Figure 2: Use a yardstick or something with a straight edge to span across both the fan and motor pulleys. You want to have four points of contact shown by the yellow arrows. Make sure to not lap over the raised area near the shaft, as this will give a false reading.*





Figure 3: Left, the string method used on a fan where the pulleys are out of alignment approximately 5/8 inch. Right, the string method showing four points of contact and that the pulleys are in correct alignment.



Figure 4: The yardstick method used on a fan where the pulleys are out of alignment approximately 5/8 inch, at left, while, right photo, the yardstick method shows four points of contact and that the pulleys are in correct alignment.



Laser method. Not all fans are designed so that a yardstick can be used, and sometimes the simple string method is difficult to implement due to motor, frame and other obstructions. There are several tools that can be purchased that use a laser to align the pulleys. One of these tools is a laser alignment kit (Grower Select, model #HS783) that can be purchased for about \$20. There are other equivalent kits varying in price. This unit comes with simple instructions to check the pulleys for both alignment and wear. You place the laser body on one pulley and a target body on the second pulley. If properly aligned, the laser should hit within a yellow band that is acceptable. Figure 5 shows the laser body on the motor pulley and the target body on the fan pulley. You can see the laser hitting the black band on the target that is outside of the yellow acceptable band.

Figure 6, below, shows the use of the laser kit to check the pulley alignment. The fan pulley is roughly 5/8 inch out of alignment, which means the laser is off the target. We loosened the set screw holding the pulley on the fan shaft and adjusted the pulley until the laser hits inside the yellow acceptable band, on right.



*Figure 5: A laser alignment kit is placed on a tunnel fan to evaluate alignment. The laser body is placed on the motor pulley, and the target body is placed on the fan pulley. The laser is hitting to the right of the yellow acceptable band.*



*Figure 6: Left photo, the laser method is used on a fan where the pulleys are out of alignment approximately 5/8 inch. Right photo, the laser is hitting inside the yellow acceptable strip, showing the pulleys are in correct alignment.*



### How often should pulley alignment be checked?

Safety first: Do not attempt to check pulley alignment without making 100 percent sure fan power has been disconnected. This test requires direct contact with potentially moving fans parts that may be energized without notice unless totally disconnected.

Fan alignment should be checked at least once per year for each fan during spring for tunnel fans, at least twice a year for fans used for minimum ventilation and power ventilation fans, and any time you notice that a specific fan seems to wear more than others on the farm in the same ventilation sequence. Fans used during minimum ventilation wear faster than the last tunnel fans belts do. Fan motor pulley alignment must be verified after the fan motor, tensioner or pulley is replaced. This is arguably the most frequent occurrence and instance when this problem is created by mistake. Next time you replace a fan motor, do not forget to check for pulley alignment before tightening the bolts on the motor mounts.

### THE BOTTOM LINE

Fan pulley alignment is a meaningful maintenance task, is important for fan performance and can easily be corrected with the right knowledge of the service. Next time you see a worn belt, or a motor goes out and must be replaced, make sure pulley alignment is verified so the fan performs properly and runs efficiently and belt wear is minimized. Thanks, and good luck from the National Poultry Technology Center at Auburn University.

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