

EMERGING TRENDS

2022 ■ Issue 1

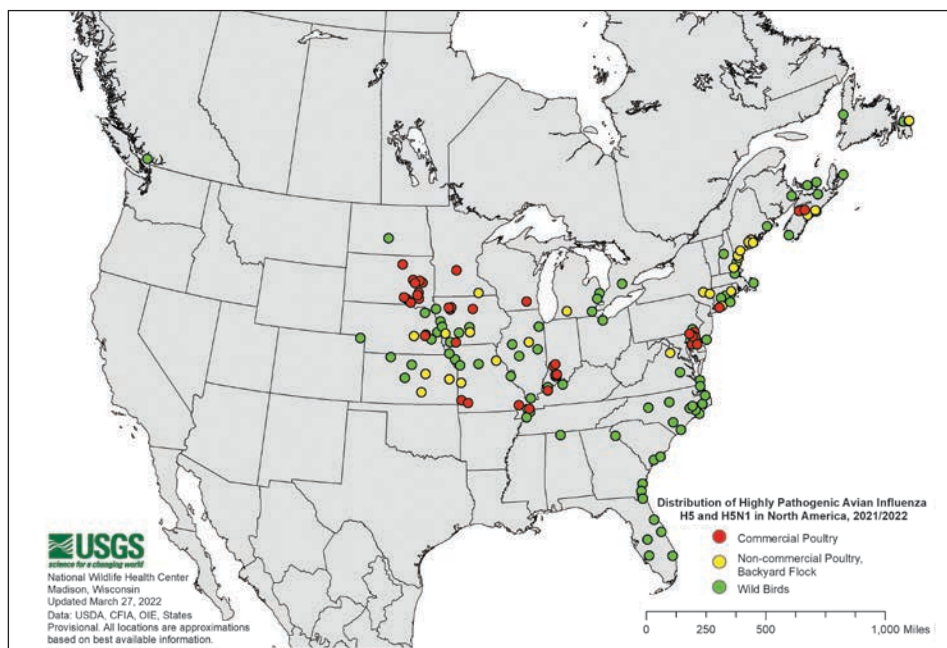
A Newsletter of the Mississippi Poultry Association

STATE VETERINARIAN UPDATE

Dr. Jim Watson, State Veterinarian



After hearing last year about cases of Highly Pathogenic Avian Influenza (HPAI) in Asia and then Europe, it has finally reached our shores here in North America. Starting in late December and early January we had reports of findings of HPAI in migratory waterfowl along the eastern coast from Newfoundland to Florida. Then in early February HPAI was found in a flock of commercial turkeys in Indiana. In short order the disease was seen in many other states from the northeast to the Midwest (15 at the time of writing). Two cases of concern are the ones in Kentucky and Missouri right along the Mississippi River, just over 400 miles north of Vicksburg along the Mississippi River! Two broiler farms have been affected as well as several very large table egg layer operations. With the newly found commercial table egg layer operation found in Wisconsin, about 7.5 million birds have had to be depopulated.



WHAT'S INSIDE:

- 2022 MAGNOLIA BEEF AND POULTRY EXPO
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CHANGES IMPACT THE
POULTRY INDUSTRY

continued from front cover

So far, none of the migratory waterfowl from Mississippi have tested positive for HPAI, but that could change at any minute. To date, the investigations indicate that each of these infections are a direct introduction from migratory waterfowl, and do not involve farm to farm transmission. What that means to you as a grower is that each time you step foot into a poultry house, you could be carrying virus with you. Strict biosecurity is the only way to prevent this disease from entering your poultry houses. Some of the important biosecurity measures you should be practicing are:

- 1) A foot bath at the door to each house
- 2) Dedicated coveralls and boots or shoe covers for each house
- 3) Minimize any visits into your poultry houses by off farm personnel, and require coveralls and boots for them as well
- 4) Do not visit family or friend's farms unless absolutely necessary
 - a. If you visit another farm, shower and change clothes before returning to your farm
 - b. Do not share equipment between farms unless it is cleaned and disinfected between farms
- 5) Proper management of mortality composters
- 6) Keeping the areas around feed storage clean so as not to attract wild birds or ducks

The early indications of HPAI noticed by growers have been a **steep decrease in water consumption and an increase in mortality**. If you notice any unusual changes in your flock, call you supervisor immediately so we can get birds or samples to the lab for testing. In order to stop an outbreak, it is imperative that we diagnose the disease and depopulate the flock immediately. The Board of Animal Health has teams ready to mobilize with foaming units or carbon dioxide units that can effect rapid depopulation.

According to the US Centers for Disease Control and Prevention (CDC) these recent infections in poultry do not present an immediate health concern and no human cases of this virus has been detected in the US. Also, as a result of our stringent food safety and inspection programs here in the US, none of these products have entered the food chain.

If you wish to follow the outbreak, you can go to the USDA website by googling "2022 USDA HPAI Outbreak" where you can find more details about the outbreak. Please feel free to contact me at 601-359-1170 or email me at msstatevet@mdac.ms.gov with any questions or concerns you may have. ■

THE MISSISSIPPI POULTRY ASSOCIATION WELCOMES LAUREN FORTENBERRY



Lauren Fortenberry

The Mississippi Poultry Association is excited to announce the hiring of our new Administrative Assistant, Lauren Fortenberry. She began working on December 23rd, 2021.

Lauren is a graduate of Mississippi State University, where she earned two undergraduate degrees: one in agronomy with an integrated pest management concentration and one in horticulture with a floriculture and ornamental horticulture concentration. Lauren is originally from Trenton, Tennessee, where she graduated from Peabody High School. From the 5th grade through 12th grade, Lauren was active in showing livestock, exhibiting hogs, mules, and goats at the county fair and through the FFA. She grew up

on her family's farm, raising beef cattle and row crops.

"I grew up on my granddad's farm in Tennessee, but we raised beef, so I know very little about poultry farming," Lauren states. "I do look forward to learning more about the poultry industry and meeting the people who are a part of it."

Lauren recently married Tyler Fortenberry of Crawford, Mississippi, on November 19, 2021 in New Orleans, Louisiana. They reside in Clinton, Mississippi with their two Scottish terriers, Emma and Angus.

Lauren can be reached by email at fortenberry@mspoultry.org or by phone at 601-932-7560. ■



EMERGING TRENDS

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Bobby James ▪ Vice Chair

Sean McDonald ▪ Grower Advisory
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Mark Leggett ▪ President
leggett@mspoultry.org

Reed Wade ▪ Grower Relations Coordinator
wade@mspoultry.org

Lauren Fortenberry ▪ Administrative Assistant
fortenberry@mspoultry.org

If you want to join the Mississippi
Poultry Association as a
Grower Member, call the MPA
office at (601) 932-7560
for more information!

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CONTACT INFORMATION

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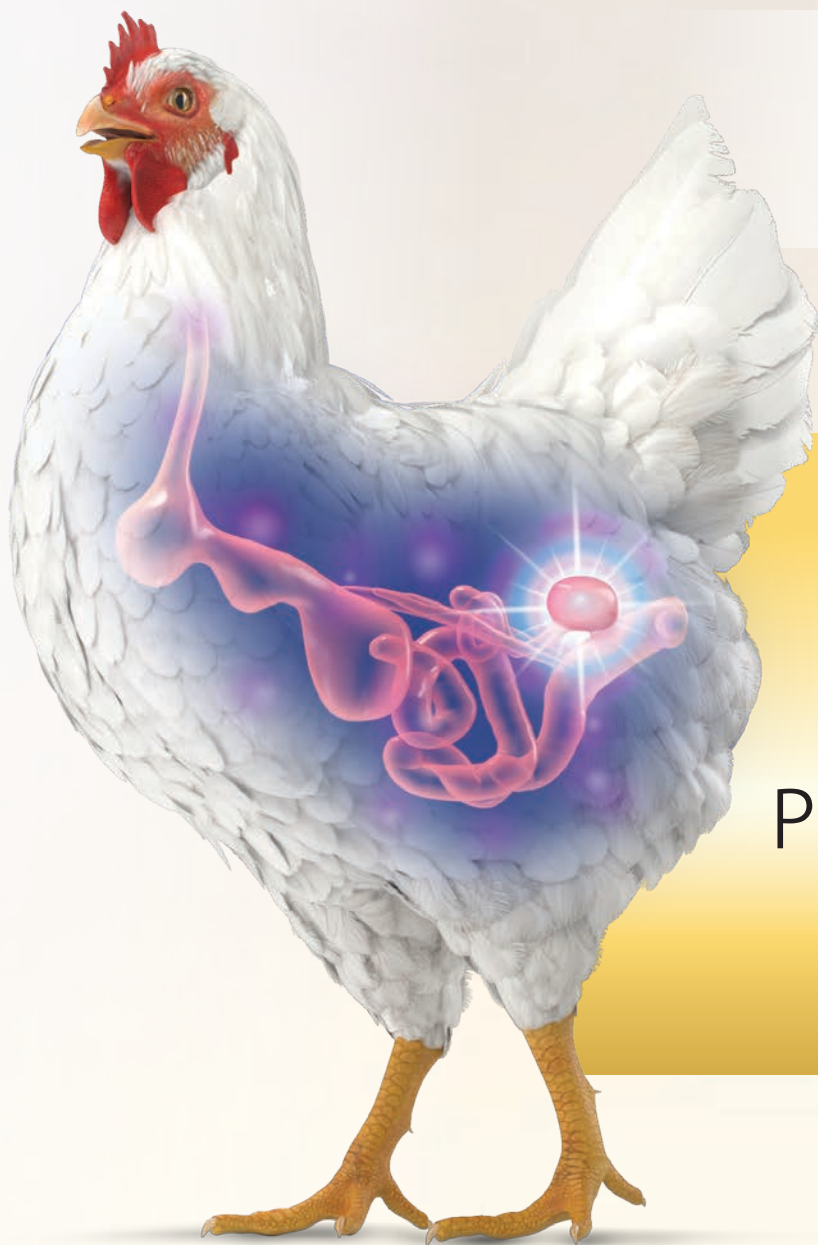
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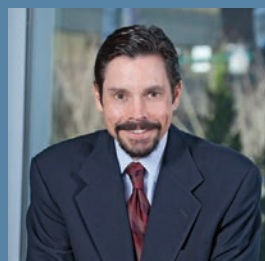
John Milner serves as counsel to the Mississippi Poultry Association and has special expertise in poultry-related environmental issues. Partner Gene Wasson also has impressive abilities in the environmental sector. Partner Trey Jones has significant Environmental Litigation experience.



John E. Milner



Gene Wasson



William “Trey” Jones, III



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THE EVER-CHANGING EVOLUTION OF THE WOTUS RULE

John E. Milner, MPA Counsel - Brunini, Grantham, Grower & Hewes, PLLC



According to the fall Unified Agenda, a new Clean Water Act “waters of the United States” (WOTUS) definition was proposed to be released by the Biden Administration EPA in February 2022. However, EPA and the Army Corps of Engineers (Corps) received more than 93,000 comments that have to be reviewed by the agencies as of February 7, 2022, which was the cut-off date for comments on the proposed rule. Many are calling for more time to submit additional comments.

At issue is the Biden Administration’s anticipated release of a more expansive definition of WOTUS compared with the Trump-era “Navigable Waters Protection Rule” (NWPR). In 2020, the EPA and the Corps issued the NWPR, which “provided less protection and could have allowed far more impacts to the nation’s waters than any rule that preceded it,” the Executive Summary adds. The NWPR was vacated by a federal court decision on August 30, 2021, leaving the agencies with the pre-2015 regulations as their only available rules to enforce.

In recent months the Biden Administration EPA has moved to formally scrap the Trump rule and has put back in place pre-2015 regulations informed by past court precedent. Although the agencies “are not currently implementing the NWPR, the agencies are aware that further developments in litigation over the rule could bring the rule back into effect,” states the Biden proposed rule. “For these reasons, among others discussed more fully below, the agencies have decided that prompt replacement of the NWPR through the administrative rulemaking process is vital.”

Key components of the new Biden WOTUS definition

In rolling back the Trump Administration NWPR and reverting to the WOTUS definition used before the Obama Administration definition, the Biden EPA has made some adjustments to address some Supreme Court decisions related to WOTUS. This Biden EPA would define WOTUS as:

- Traditional navigable waters, interstate waters, and the territorial seas and their adjacent wetlands;
- Most impoundments
- Tributaries to traditional navigable waters, interstate waters, the territorial seas, and impoundments that meet either the “relatively permanent standard” or the “significant nexus standard”;
- Wetlands adjacent to impoundments and tributaries that meet either the relatively permanent standard or the significant nexus standard; *and*
- “Other waters” that meet either the relatively permanent standard or the significant nexus standard

The Biden proposed WOTUS rule tried to address these CWA jurisdictional “standards” noted above. It defines the “relatively permanent standard” as “waters that are relatively permanent, standing or continuously flowing and waters with a continuous surface connection to such waters.” The “significant nexus standard” is defined as “waters that either alone or in combination with similarly situated waters in the region, significantly affect the chemical, physical, or biological integrity of traditional navigable waters, interstate waters, or the territorial seas (the foundational waters).”

Essentially, the Biden proposed rule is an effort to achieve a “balancing act” between including the coverage of the 2015 Obama-era rule, while setting aside the categorical inclusions that brought that rule to a halt in litigation. The result would likely be an uptick in agency case-by-case analyses, as the agencies seek to apply the multiple standards set forth in the new definition.

Agricultural industry opposition to the Biden proposed WOTUS definition

Cattlemen associations have expressed strenuous written disagreement with certain provisions of the proposed Biden WOTUS rule. On February 7, 2022, the National Cattlemen’s Beef Association (NCBA) submitted a letter to EPA Administrator Michael Regan calling attention to the hardships faced by livestock producers due to “years of regulatory uncertainty related to the [WOTUS] definition.”

According to NCBA, the proposed rule would regulate water bodies commonly found on farms and ranches. NCBA commented that the “Biden Administration’s rule repeals bipartisan exclusions for agriculture that existed under both Democratic and Republican administrations....Without these critical exclusions, common features like stock ponds, agricultural ditches, and drainage systems can fall under federal jurisdiction, preventing cattle producers from actively managing their land and caring for their cattle.”

New U. S. Supreme Court WOTUS proceedings

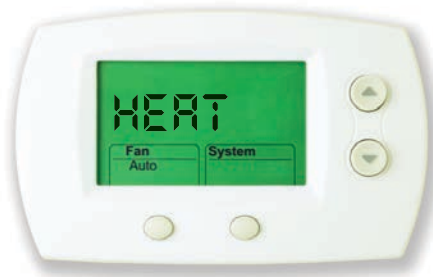
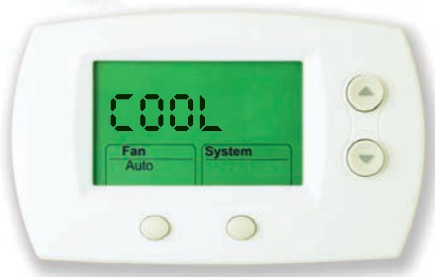
The U.S. Supreme Court (SCOTUS) agreed to hear a new WOTUS case, *Sackett v. Environmental Protection Agency*, on January 24, 2022. The case concerns what the proper test is “or determining whether wetlands are included in the WOTUS definition of the Clean Water Act (CWA).”

The dispute that led to this case began when Chantell and Michael Sackett purchased a residential lot near a lake in Idaho and used gravel and sand to fill the lot and get it ready for home construction. The EPA ordered the Sacketts to remove the fill and return the lot to its natural state, arguing that the lot contained wetlands subject to regulation under the CWA. The Sacketts sued in 2008 and argued that the EPA lacked jurisdiction over their property. The dispute has worked its way through the federal courts for the fourteen years following that initial lawsuit. The United States Court of Appeals for the Ninth Circuit ruled in favor of the EPA in 2021, holding that the CWA covers the Sacketts’ property. The Sacketts appealed to the U.S. Supreme Court, asking for clarification about which wetlands are covered by the CWA. SCOTUS will hear this case in its fall 2022 term.

In conclusion, the one constant about the WOTUS definition is that it will always be hotly contested and evolving. Whatever final WOTUS rule the EPA puts forth, it is certain to upset some in industry and environmental conservationists alike and will end up as the subject of future court disputes. We will keep you abreast of key developments, including the upcoming SCOTUS decision in the *Sackett* case.

If you have any questions concerning this article, please contact John Milner of the Brunini Law Firm in Jackson, who is MPA Counsel. John can be contacted at jmilner@brunini.com or (601) 960-6842. ■

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2022 MAGNOLIA BEEF AND POULTRY EXPO SPEAKERS TO DISCUSS POULTRY HOUSE INSURANCE

Reed Wade, Grower Relations Coordinator - Mississippi Poultry Association

The 2022 Magnolia Beef and Poultry Expo on Thursday, April 14th at the Charles Waldrup Agricultural Complex in Raleigh will feature several presentations of interest to poultry growers.

MPA serves on the planning committee for educational program at the Expo. The event runs from 9 a.m. – 3 p.m.

At 9 a.m. Mr. Dennis Brothers with the National Poultry Technology Center at Auburn University will discuss best construction practices to reduce poultry house insurance premiums and costs. A panel discussion on solar power in the poultry industry will follow at 10:30 a.m.

For beef producers, Dr. Kale Hatten, DVM, will give a demonstration on castration, while Mr. David Tadlock with Tadlock Stockyards will discuss pricing differences of castration.

The producer door prize is a Polaris Sportsman 450 H.O. (starting at \$6,699 US MSRP) sponsored by Pro Flow Motorsports in Laurel. The grand door prize is a Traeger grill and additional door prizes will be given during the educational sessions.

This is a free event and open to the public. The Magnolia Beef and Poultry Expo is sponsored by Community Bank of Raleigh, Mississippi State University Extension, Mississippi Farm Bureau, First Financial Bank, Insul-Pro Plus, and Pro Flow Motorsports. For more information, please contact the Smith County Extension Office, 601-782-4454. ■



Save the Date

Thursday, April 14, 2022

Magnolia Beef & Poultry Expo

**131 SCR 77 (Oil Field Rd)
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The 2022 Magnolia Beef and Poultry Expo will offer educational seminars on a variety of current topics facing beef and poultry producers.

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LEGISLATIVE LUNCHEON RESUMES

Mark Leggett - President, Mississippi Poultry Association

The MPA- Egg Marketing Board Legislative Luncheon was the last event held before COVID shut the Legislature down in 2020 and COVID cancelled the 2021 event, so it was good to be able to gather this year.

The event at Galloway United Methodist Church across from the Capitol featured omelets and salad with grilled chicken. After an omelet cooking demonstration by local TV chef Deborah Hunter, the author of “My Delicious Mississippi Life,” legislators prepared omelets for other attendees, most of them legislative staff from the Capitol.

MPA Board of Directors Chair Dr. Ryn Laster, who is also chair of the Egg Marketing Board, welcomed the crowd. Afterward, attendees received a bag of logo items from MPA members and the Egg Marketing Board. ■



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2022 MPA POULTRY HEALTH SEMINAR SPEAKERS

Mark Leggett, President - Mississippi Poultry Association



The MPA Poultry Health Seminar addressed virology, diagnostics, management of bird health, parasitology and bacteriology at the Miss. Ag & Forestry Museum in Jackson, MS on Feb. 15. We would like to thank our speakers and sponsors and the 70 members who attended. Slides are available from most of the presentations. Email wade@mspoultry.org if you are interested.

Virology

Adenovirus (IBH) diagnostics – Why serotyping doesn't explain pathogenicity, Dr. Alejandro Banda – MSU CVM Poultry Research & Diagnostic Lab

Adenovirus (IBH) intervention – Pathogenesis, treatment and control, Dr. Jose Linares – Ceva Animal Health

Infectious bronchitis virus (IBV) control in long-lived birds, Dr. Kelli Jones – Ceva Animal Health

Diagnostics

PRDL case submission protocol and disease update, Dr. Natalie Armour – MSU CVM Poultry Research & Diagnostic Lab

Management of Bird Health

Livability versus out time: What's the real story?, Dr. Brandon Carter – Elanco Animal Health

A case of broiler coryza in South Georgia with unusual biosecurity gaps, Dr. David French – Poultry Diagnostic and Research Center (PDRC), University of Georgia

Troubleshooting Broiler Breeder Hen Mortality, Dr. Rodrigo Espinosa – Aviagen, Inc.

Parasitology

Update on coccidiosis vaccination & cycling in pullets, Dr. Blayne Mozisek – Merck Animal Health

Update on the prevention/control of Blackhead, Dr. David French – Poultry Diagnostic and Research Center (PDRC), University of Georgia

Bacteriology

Enterococcus cecorum – Clinical presentations and antimicrobial resistance trends, Dr. Gunnar Dunnam – MSU CVM Poultry Research & Diagnostic Lab

Salmonella isolation and ISR genotyping, Dr. Martha Pulido – MSU CVM Poultry Research & Diagnostic Lab

FSIS guidelines for controlling Salmonella (June 2021), Dr. Don Ritter – Poultry Business Solutions LLC

The selection of the best antigen for Salmonella autogenous vaccines: where are we now?, Dr. Roxana Sanchez-Ingunza – RSI Poultry Veterinary Consulting LLC

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Mississippi lost two members of the Poultry Hall of Fame this winter, as well as one member of the Grower Advisory Committee.



Van R. Bowman



Dr. Elbert Day

Van R. Bowman, 82 of Carthage, who was inducted into the Miss. Poultry Hall of Fame in 2009, died Feb. 13.

Van was active in the poultry industry for more than 40 years. He worked first with Arbor Acres Farms, a primary breeder company. He has also served in several capacities with Choctaw Maid Farms, Green Acre Farms, Sanderson Farms, and retired from Peco Farms.

Van Ray, as he was known, was involved with the Mississippi Poultry Association for 30 years. He served on the MPA Board of Directors for more than 20 years, including two terms as Chairman of the Board, in 1993 and 2001. He was instrumental in setting up the MPA Grower Advisory Committee.

In addition to his long list of accomplishments and successes in the Mississippi poultry industry, Mr. Bowman served on the Mississippi Board of Animal Health, Department of Poultry Science Advisory Board and impacted the lives of many poultry science graduates.

Van was a native of Neshoba County, a member of the Carthage Presbyterian Church and served in the United States Army as a tank commander. He was a member of the Leake County Chamber of Commerce and served as a board member of First Financial Bank in Carthage. ■

Dr. Elbert Day of Starkville, who was inducted into the Hall of Fame in 1995, died Feb. 19.

A native of Alabama and a graduate of Auburn University, Dr. Day, 96, joined the poultry science department at Mississippi State University as an assistant professor in 1956.

As a highly productive scientist during the middle years of expansion of poultry research, he provided the Mississippi poultry industry with fundamental and applied information related to nutrition of broilers, turkeys, and laying hens, a breadth of expertise that is uncommon today.

Dr. Day's research ranged from vitamin and mineral requirements to biological values of various amino acids and unidentified growth factors to economic analyses of poultry diets to composition of eggs and blood plasma. One of the main contributions from his research was the concept of high-energy diets for broilers and he worked closely with the Mississippi poultry industry to perfect the practice. For many years after he introduced computerized least cost formulation, he maintained this effort for the MS poultry industry.

One of the 10 laboratories in the new MSU Poultry Science Building is named The Dr. Elbert and Anne Day Teaching Laboratory, where avian anatomy and physiology, avian reproduction, diseases of poultry, broiler production, processing and more are taught. ■

Ed Putnam, 72, a long-time member of the MPA Grower Advisory Committee died March 4.

His father, Mr. Morris Putnam is in the Alabama Poultry Hall of Fame and his brothers, work in the industry. Ed was a broiler grower for Sanderson Farms. He started his career with Con Agra, worked as the live production manager for Wayne Farms in north Alabama then worked with Sanderson Farms in Mississippi before becoming a full time broiler producer. ■

FIELDS SET FOR CONGRESSIONAL AND JUDICIAL ELECTIONS THIS YEAR

Mark Leggett, President - Mississippi Poultry Association

All four incumbent Congressmen will face opposition and all but U.S. Rep. Bennie Thompson will have both a June 7 primary and a Nov. 8 general election.

March 1 was the deadline to qualify to run for Congress. Prior to the deadline, the Mississippi Democratic Party ruled that Gerald Kerner did not meet the qualifications to be on the ballot in the 2nd Congressional District.

This will be the first election using the new districts drawn by the Legislature in January. The largest change from the districts in use since 2012 was the shift of four southwest Mississippi counties – Adams, Amite, Franklin and Wilkinson - from the 3rd to the 2nd Congressional District.

Legislators had to find 67,000 people to put into the 2nd Congressional district after the 2020 Census found that many fewer people in the mostly Delta district. The bulk of those added – 58,000 - came from adding the four counties in the southwest corner of the state.

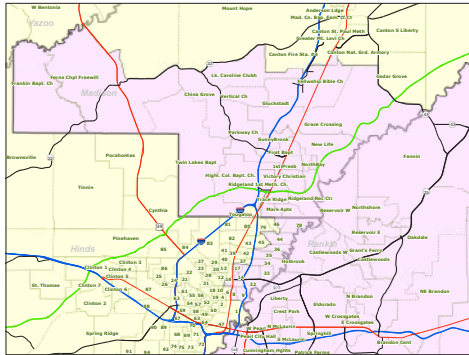
If a runoff is required in the primaries, it will be June 28.

In non-partisan judicial elections, which will not take place until Nov. 8, two of the four Court of Appeals judges up for election this year will face opposition, Virginia Carlton and Joel Smith, both in south Mississippi. Among the trial court judges, nine circuit and seven chancery judges face opposition. We will give more information on these judicial elections later in the year. ■

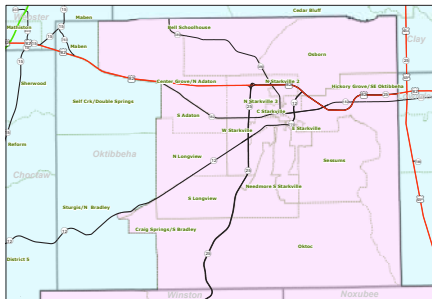
CONGRESSIONAL CANDIDATES

	Democratic	Republican	Independent or 3rd Party
1st	Hunter Avery, Belmont Dianne Black, Olive Branch	Trent Kelly, Saltillo, <i>incumbent</i> Mark D. Strauss, Olive Branch	James McCay, Corinth, Independent
2nd	Bennie Thompson, Bolton, <i>incumbent</i> Gerald Kerner, Clinton	Brian Flowers, Clinton Ron Eller, Raymond Michael Carson, Terry Stanford Johnson	
3rd	Rahim Talley, Ridgeland Shuwaski A. Young, Jackson	Michael Guest, Brandon, <i>incumbent</i> Thomas Griffin, Pearl Michael Cassidy, Meridian	
4th	Rev. David Sellers, Hattiesburg Johnny Dupree, Hattiesburg	Steven Palazzo, Gulfport, <i>incumbent</i> Jackson County Sheriff Mike Ezell, Pascagoula Raymond Brooks, Gulfport Clay Wagner, Kiln State Sen. Brice Wiggins, Pascagoula Kidron Peterson Carl Boyanton, Diamondhead	Alden P. Johnson, Petal, Libertarian Aaron Lee, Biloxi, Independent

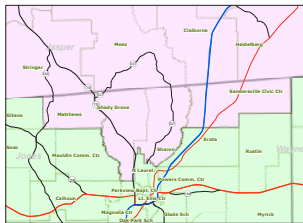
U.S. Congressional Districts as Enacted January 25, 2022



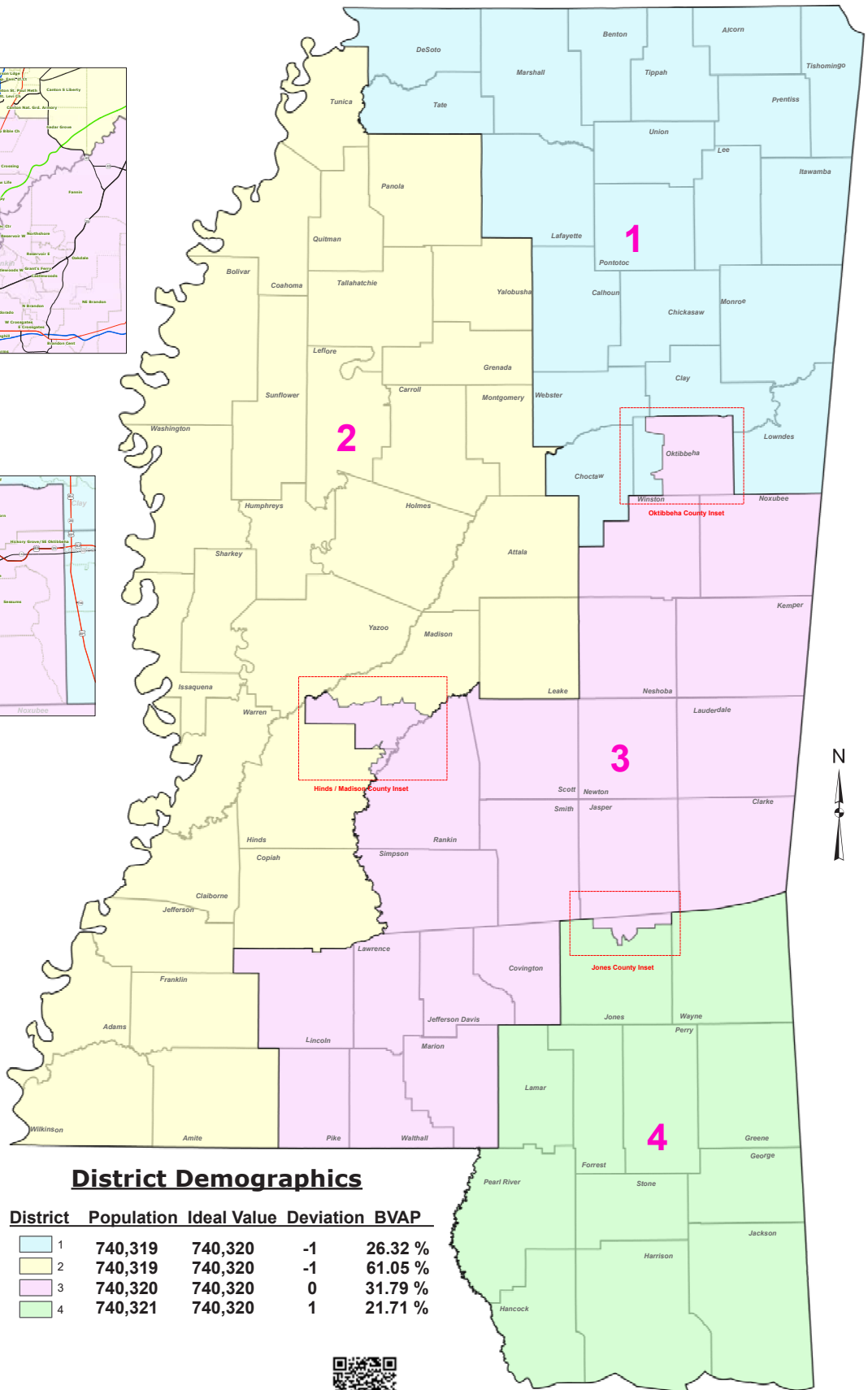
Hinds / Madison County Inset



Oktibbeha County Inset



Jones County Inset



District Demographics

District	Population	Ideal Value	Deviation	BVAP
1	740,319	740,320	-1	26.32 %
2	740,319	740,320	-1	61.05 %
3	740,320	740,320	0	31.79 %
4	740,321	740,320	1	21.71 %



Map prepared by MARIS - 1/25/2022

0 15 30 60 Miles

Election Districts were compiled on a whole block basis by Legislative staff. Base data (shape, area, and counties) were compiled from 2020 U.S. Census Bureau TIGER Files. Although the information contained on this map is believed to be accurate, the Board of Trustees, State Institutions of Higher Learning (MARIS), the Standing Joint Committee on Reapportionment make no warranty as to the completeness, accuracy, reliability or suitability of the data for any use, or for any conclusions derived from this map.

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MISSISSIPPI POULTRY ASSOCIATION'S MANAGEMENT SCHOOL ON MAY 17 & 18 AT MSU *LIKE WE USED TO DO IT*

*Reed Wade, Grower Relations Coordinator -
Mississippi Poultry Association*

The MPA Management School is set for May 17 - 18 in Starkville MS as we try to get back to the way we did things pre-COVID.

Day 1 of the meeting will begin at 1:00 p.m. on Tuesday, May 17 in the MSU College of Veterinary Medicine and for the second day, Wednesday, May 18, we will meet in the new MSU Poultry Science Department building at 8:00 am. There will be a crawfish boil after the meeting on the first day with buses provided for transportation.

There will be the opportunity for you to attend a baseball game – MSU vs. North Alabama. Lunch will be served on day two.

Some of the topics include:

- Grounding & Lightning
- Sustainability
- Ventilation
- Animal Welfare
- High Pathogenic Avian Influenza

You can make a room reservation at one of the following hotels, registration information and a more detailed agenda will be coming soon.

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Understanding the Life Cycle, Behavior and Impact of Flies

By Richard Hack

Excessive numbers of flies in layer, breeder and turkey grow-out facilities are unacceptable for several reasons. Not only are house flies a nuisance to workers, but they also act as vectors for disease transmission. When fly populations are not properly managed, they can become a public health nuisance around poultry operations and neighboring communities.

An interesting fact: Scientists have calculated that a pair of flies beginning reproduction in April have the potential, under optimal conditions, to be the progenitors of 191 quintillion flies by August¹ if not controlled. With this rate of reproduction, house flies can:

- Have a significant impact on the economic performance of farms.
- Increase workforce expenses or cause delays to other productivity-related activities due to the extra cleaning costs incurred between flocks to remove the excrement left by flies on equipment and farm facilities.
- Become a public health issue to neighbors.

Fly life cycle and behavior patterns

Flies are an issue in poultry facilities where manure breeding sites are abundant and manure management is poor. This is especially true in layer, breeder and turkey grow out – production systems. The ease with which flies can move between the inside and outside of the poultry houses and have access to breeding material helps facilitate their development and persistence on the farm.

House flies lay eggs, hatch, and become larvae before they pupate and finally

hatch into adults to repeat the life cycle throughout the fly season.

When house flies are not laying eggs, they are typically found around windows, doors and the ceiling areas of buildings. These resting places are generally near favorite daytime feeding and breeding areas and sheltered from the wind. At night, flies are normally inactive. Both male and female flies feed and live in all kinds of undesirable areas including decomposing human and animal food, garbage and excrement.

The distribution of fly populations is greatly influenced by their reaction to light, temperature and humidity as well as surface color and texture. At very low temperatures, the species can stay alive in a dormant state in the adult or pupal stages.

While exact values vary slightly, adult fly activity may begin around an average temperature of 44°F (6.7°C). At this temperature range the flies are still relatively inactive and can only crawl slightly from

45-48°F (7.2-8.9°C) and can only fly at temperatures of 53°F (11.6°C) or warmer. Adult house flies appear to seek temperatures exceeding 60°F (15.6°C) when possible. However, lower temperatures are associated with longer duration of survival².

Most flies seem to stay within a half mile or mile from their breeding place. In general, the effective dispersal range of house flies appears

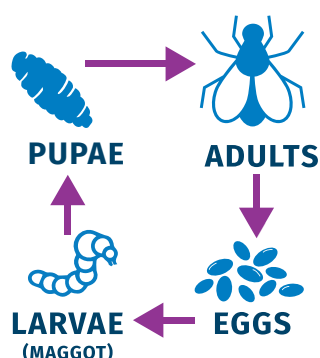


to be less than 2 miles. Maximum distances of 10-20 miles have been recorded with only 8-30% of flies dispersing beyond their source poultry facility².

Economic impact of flies

Flies can have a significant impact on the economic performance of farms. Apart from the potential spread of disease, flies can dissolve bird feces and damage egg quality due to 'fly spotting' on the eggshells. Additionally, the logistics required for implementing a fly control program increases workforce expenses or causes delays to other productivity related activities. Extra cleaning costs are incurred between flocks to remove the excrement left by flies (regurgitation, feces) on equipment and farm facilities.

To help manage the negative economic implications of fly infestations, Elanco offers a portfolio of larvicides and adulticides to help poultry producers manage fly populations. Contact your Elanco sales team or distributor for more information.



The Life Cycle of a Fly

For more information, visit Poultry.Elanco.com.

References

- ¹Sanchez-Arroyo H., Capinera J.L. 2017. House fly, *Musca domestica* Linnaeus. *Featured Creatures*, University of Florida.
- ²Stafford, K.C. 2008. *Fly Management Handbook. A Guide to Biology, Dispersal, and Management of the House Fly and Related Flies for Farmers, Municipalities, and Public Health Officials*. The Connecticut Agricultural Experiment Station, New Haven, USA.



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WINNERS OF THE 2022 DIXIE NATIONAL RODEO DAYS CRÊPE SHOWDOWN

The Mississippi Egg Marketing Board

The Mississippi Egg Marketing Board and the Mississippi Poultry Association are pleased to announce the winners of the Inaugural “Dixie National Rodeo Days Crepe Showdown.” Several Mississippi 4-H youth competed in the event as part of Mississippi 4-H Day during the 2022 Dixie National Livestock Show and Rodeo on Saturday, February 19.



Pictured (L-R): MS Egg Marketing Board President, Ryn Laster; Second Place Winner, Laura Lee Brown of Pontotoc County; Third Place Winner, Andrew Bragg of Rankin County; Second Place Winner, Grace Randall of Pontotoc County; The Mistress of Ceremonies, Deborah Hunter; First Place Winner, Belinda James Castleman of Pontotoc County; Rebecca Turner and daughter Neely.

Placing first from Pontotoc County was Belinda James Castleman with her “savory” crêpe. Tying for second place were Laura Lee Brown and Grace Randall, both of Pontotoc County. Placing third, representing Rankin County, was Andrew Bragg, serving up a sweet crêpe.

The contestants placing first, second and third were awarded cash prizes by the Mississippi Poultry Association in amounts of \$75, \$50 and \$25 respectively.

Thirteen contestants from around the state competed in the crêpe showdown, presenting their entry to a panel of judges within 60 minutes. Also competing were Nikyra Sudduth, Dorian Plair, Padaris Lawrence, JaNiya Jones and Patrick Lawrence, all representing Oktibbeha County; Vivian Baird, Lily Ann White and Caroline Pannell, representing Sunflower County; and James Edward Bragg from Rankin County.

Mississippi Egg Marketing Board President & MPA Board Chair Ryn Laster also serving as one of the judges said, “It’s amazing how these young people have such creativity when cooking. We had a tough decision choosing the winners.” SuperTalk Mississippi’s “Fit to Eat” Host Rebecca Turner and former Mississippi State All-American Quarterback John Bond also served as judges for the cook-off. Serving as the Mistress of Ceremonies was the delightful Deborah Hunter, author of “My Delicious Mississippi Life,” a collection of stories and recipes. ■

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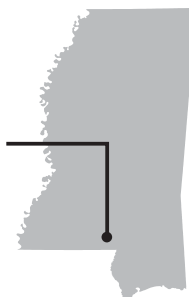


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MPA MEMBERS HONORED FOR THEIR CONTRIBUTIONS TO STATE, INDUSTRY AND MSU

Reed Wade, Grower Relations Coordinator - Mississippi Poultry Association

Several MPA members were honored for their work this winter by the Miss. House of Representatives, the US Poultry and Egg Association, and the Mississippi State University Poultry Science Department.



Joe Sanderson, Sanderson Farms

Pictured (L-R): House Speaker Philip Gunn; Rep. Omeria Scott, Laurel; Rep. Robin Robinson, Laurel; Cathy Sanderson; Joe Sanderson; Rep. Vince Mangold, Brookhaven; Katy Sanderson Creath; Rep. Donnie Scoggin, Ellisville; Rep. Greg Holloway, Hazlehurst.

The House of Representatives commended Sanderson Farms CEO **Joe Sanderson** on the company's 75th anniversary and his 75th birthday for his philanthropy and his contributions to the state as head of state's largest Mississippi-headquartered company.

House Speaker Philip Gunn, R-Clinton, mentioned Sanderson's support of Children's Hospital and the Sanderson Farms Golf classic. "He has had a tremendous positive impact and reflected well on our state. He is a true Mississippian in every sense of the word," Gunn told the House.

In his remarks, Sanderson reminded the House that "there is no one person who made Sanderson Farms the success that it is. This success belongs to everyone" including employees and the growers who contract with the company. "They are special people."



Bob "Pic" Billingsley, Sanderson Farms

Miss. Poultry Association Board member **Bob "Pic" Billingsley**, Sanderson Farms' director of development and engineering, was presented a Lamplighter Award at the International Poultry

Expo, part of the 2022 International Production & Processing Expo. The award pays tribute to individuals for "sustained and exemplary service" to the poultry and egg industry.

Billingsley, an employee of Sanderson Farms for over 38 years, has served on the company's executive committee for over three decades and has overseen site selection, design, and construction for the last eight state-of-the-art poultry complexes the nation's third largest poultry producer has built. He also serves on the company's corporate compensation committee and crisis management committee.

Pic has served on the U.S. Poultry & Egg Association board. He has also served three times as the chairman of the MPA board of directors.



Sherman L. Miller, Cal-Maine Foods

Pictured (L-R): Hayden Miller, Laura Miller, Sherman Miller, Logan Miller, Bryce Miller.

Mr. Sherman L. Miller was named the 2022 Distinguished Fellow for the Mississippi State University Department of Poultry Science. The Ethel, Mississippi native serves as the President and Chief Operations Officer of Cal-Maine Foods, the largest producer and distributor of fresh shell eggs in the United States. With more than twenty-five years of service at Cal-Maine Foods.

He graduated in 1997 from MSU with a Bachelor of Science in Poultry Science. Miller is a widely recognized protein industry expert who inspires more than 3,200 colleagues. He launched his career with Cal-Maine Foods at its flagship Edwards, Mississippi operation in 1996.

He has served as President since 2018 and Chief Operations Officer since 2011. He was elected to the Cal-Maine Foods Board of Directors in 2012. Miller has served on the board of the United Egg Producers, the U.S. Poultry and Egg Association, and the Department of Poultry Science Advisory Board, among others.

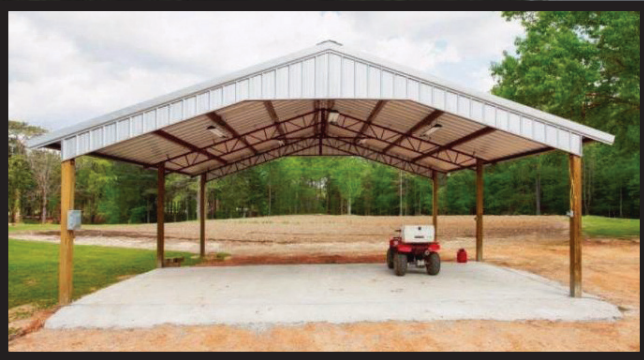
Previous winners were Dr. Sue Ann Hubbard, Ceva; Dr. Ryn Laster, Cal-Maine Foods; and Steve McLaurin, Peco Foods. ■



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DEMAND, HIGHER PRICES INCREASE POULTRY VALUE

Ms. Susan M. Collins-Smith, MSU Extension Service

Strong consumer demand for chicken is one part of the equation that added up to a nearly 40% increase in production value for Mississippi's poultry industry in 2021.

The commodity held on to the No. 1 spot among all the state's agricultural commodities, totaling an estimated value of \$2.65 billion. 2021 marks the 27th consecutive year poultry has topped Mississippi's value of production list. Final figures will be released by the U.S. Department of Agriculture in April.

Higher prices also influenced this year's value of production.

"Demand at both grocery stores and restaurants has been strong," said Josh Maples, an agricultural economist with the Mississippi State University Extension Service. "It's also important to remember that broiler prices in 2020 were very low. So, the big increase in price and value of production we've seen in 2021 is due to stronger chicken demand and stronger prices. But it is also driven by the comparison to low values in 2020."

The poultry industry is broken into three segments: broilers, chickens and eggs. Broilers are worth an estimated \$2.42 billion, an increase of 43% from 2019. Estimated value for chickens that produce table eggs stands at \$2.7 million, a 33% increase over last year. Eggs are valued at \$235 million, an increase of 5% from 2019.

In 2020, the value of eggs jumped sharply as prices increased due to production challenges and supply chain issues caused by COVID-19 impacts. Even higher annual prices have contributed to the jump in egg value for 2021.

"Egg production levels so far in 2021 have actually been slightly lower than 2020 levels, but the higher prices offset that lower production," Maples said.

Among the lingering challenges related to COVID-19 is a shortage of some processing plant and supply chain



Strong consumer demand and higher prices resulted in a nearly 40% increase in the value of production for Mississippi's poultry industry in 2021. Total estimated value of production stands at \$2.65 billion. (File photo by MSU Extension Service)

employees, said Tom Tabler, Extension poultry specialist.

"Keeping workers at the plants is a major challenge because of the way government assistance to many individuals is structured," he said. "In addition, there is a nationwide shortage of truck drivers, and the poultry industry needs feed truck drivers, live haul drivers and drivers to haul finished product from the processing plants to a destination point."

The cost of doing business is also rising. Poultry farmers always have an eye on grain prices because feed accounts for 70% of production costs.

"Grain prices have been much higher this year because of pressure from export markets," Tabler said. "The prices we're seeing on the futures markets are the highest we've seen in several years, and they are certainly enough to keep the industry on edge."

In recent years, the poultry industry has suffered property losses from tornadoes, hurricanes and other natural disasters, impacting insurance rates and coverage.

"Many insurance companies have stopped insuring poultry farms or raised rates significantly due to losses from natural disasters," Tabler said. "On top of that, increasing steel and lumber prices have raised costs of constructing new poultry houses to a point where it is difficult to make them profitable."

Although growers faced multiple issues in 2021, disease was not among them. Strict and consistent biosecurity protocols have protected the industry from outbreaks of avian influenza, while many other countries have been struggling with the virus.

Tabler said the industry is facing a number of challenges, but he remains optimistic heading into 2022.



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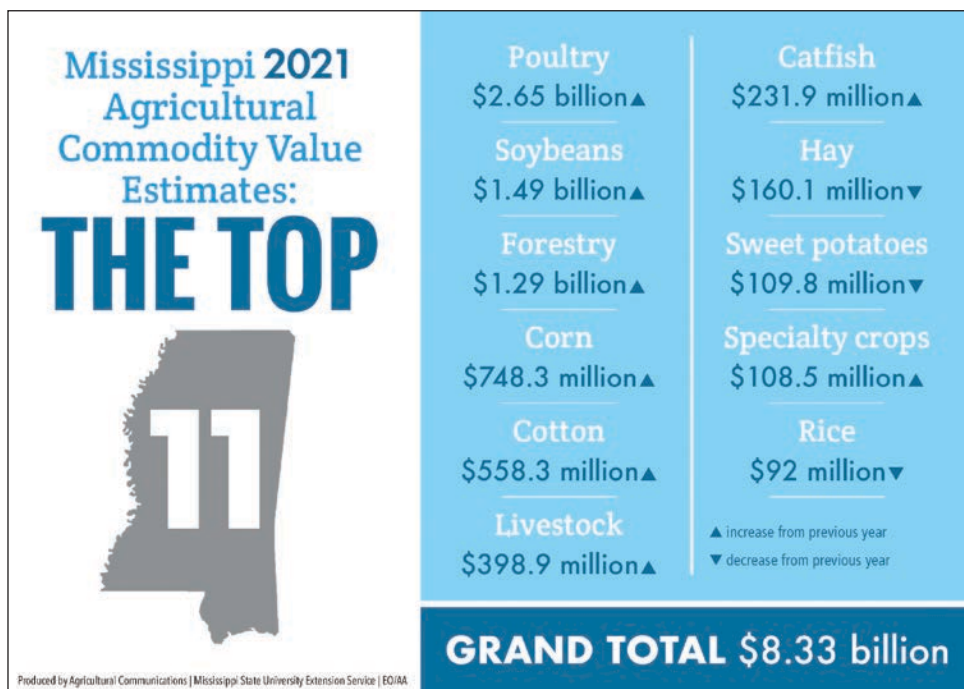


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“Hopefully, supply chain issues will continue to work themselves out, and steel and lumber prices will become a little more reasonable,” Tabler said. “My guess is the processing plant issues and the truck driver shortage will be with us for a while longer.”

“However, demand for chicken is strong both domestically and from the export market. Much of the world is still dealing with the effects of African Swine Fever, and chicken is a logical choice to fill the void left by a lower pork supply.” ■



EACH NEW BROILER HOUSE BOOSTS STATE'S ECONOMY

Mark Leggett, President - Mississippi Poultry Association

Each new broiler house in Mississippi supports almost 10 jobs and adds \$561,000 in value to the state's economy, according to an updated economic impact study by Miss. State University researchers.

First published in 2018, the study was revised by Dr. Alan Barefield, Extension Professor, Agricultural Economics; Thaddeus A. Webb, Student Assistant, Agricultural Economics; and Dr. Tom Tabler, former Extension Professor, Poultry Science.

The study uses a new 25,000-square-foot (50-by-500-foot) broiler house to estimate the increase in economic activity in the state, in terms of both the construction of the house and its ongoing operations. Economic activity includes spending by the grower, spending by the grower's supply chain businesses (the construction company, equipment supply businesses, machinery repair businesses, fuel dealers, etc.), and personal spending by

the employees of the grower and the supply-chain businesses.

“Broiler houses also support the poultry processing industry in the state. We used IMPLAN1, a proprietary input-output analysis software package, to estimate the changes in economic activity for the construction of the house, for the various segments of the production process, and the initial stages of broiler processing,” Dr. Barefield said.

The four-page report on the MPA website shows 85.5% of the inputs used in producing poultry (growing live birds) in Mississippi come from within the state. 72.1% of the inputs used in processing poultry in Mississippi come from within the state. ■



Dr. Alan Barefield

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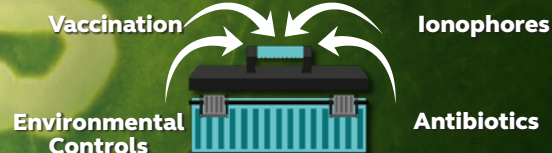
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MSU LEADERSHIP CHANGES IMPACT THE POULTRY INDUSTRY

Several leadership changes at Mississippi State University in the last few months involve the College of Agriculture and Life Sciences (CALS) and the Department of Poultry Science.

Dr. Scott T. Willard is now the permanent director of the Mississippi Agricultural and Forestry Experiment Station and dean of CALS, after serving in these roles on an interim basis since July 2020.

Vice President of MSU's Division of Agriculture, Forestry and Veterinary Medicine Keith Coble said, "Dr. Willard has a strong reputation as a world-class scholar and administrator. We look forward to his ongoing leadership in the role of director and dean."



Dr. Scott T. Willard

Since joining the MSU faculty in 1999, Willard has served as head of the Department of Biochemistry and Molecular Biology and later interim head of the Department of Entomology and Plant Pathology. In 2011 he oversaw the merger of these two departments into a combined unit. He was named associate dean of CALS in 2013.

With more than 25 years of teaching and research in reproductive and environmental physiology of domestic and non-domestic animal species, Willard is author or co-author of over 100 peer-reviewed scientific publications and more than 400 total journal publications, reports, abstracts, proceedings, book chapters and a textbook.

He is a fellow of the Food Systems Leadership Institute and has been recognized with many awards for his research, teaching and administrative service including the American Society of Animal Science Outstanding Young Animal Scientist, MSU. In 2021, Phi Kappa Phi—one of the nation's most prestigious academic honor societies—honored Willard with his second Love of Learning award.

Willard earned his master's and doctoral degrees in physiology of reproduction at Texas A&M University and he did a postdoctoral fellowship in cell biology and anatomy at the Medical University of South Carolina. His undergraduate degree in animal science and technology is from University of Rhode Island.

Dr. Mary Beck retired on Feb. 28 as head of the Poultry Science Department, after more than 10 years in the position.

Beck earned her bachelor's degree in English from the University of Richmond. A native of Maryland, she obtained her master's and doctoral degrees in poultry physiology from the University of Maryland.

She came to MSU from Clemson University in October 2011. She also taught previously at the University of Nebraska.

During Dr. Beck's tenure, the department grew its student numbers, moved into a new building on campus, made many changes to improve the campus farm operations, built a

biosecurity level 2 lab for research and began fundraising to build a new feed mill.

Dr. Wes Schilling is serving as Interim Head of the Department of Poultry Science. He is a professor in the Department of Food Science, Nutrition, and Health Promotion. He was hired in August 2003 as an assistant professor in that department.

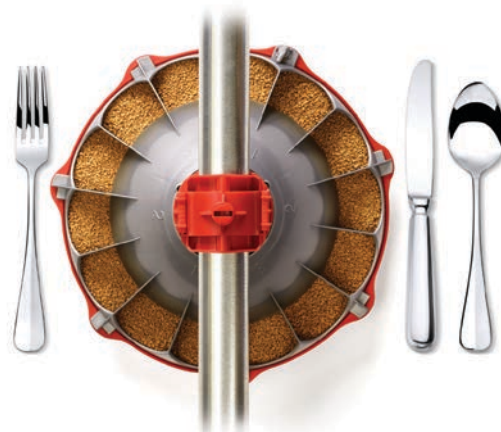


Dr. Wes Schilling

He has developed courses related to topics including food chemistry, instrumental analysis, and sensory testing principles. His research focuses on sensory science, meat processing (poultry, beef, pork, and catfish), meat quality, flavor chemistry, proteomics, and statistical methods with the goal of meeting the needs of the food industry and training students to use science to help food companies make business decisions.

Dr. Schilling received his Ph.D., MS and BS in Food Science and Technology at Virginia Tech University. He also has an MS in Statistics.

The University has formed a search committee to find a permanent Poultry Science Department Head. ■



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PROCESSING WORKSHOP WITH FSIS SET FOR JUNE 23

Reed Wade, Grower Relations Coordinator - Mississippi Poultry Association

MPA processor members are currently contributing ideas for a seminar sponsored by Zoetis that is scheduled for June 23 at the Mississippi State University Poultry Lab in Pearl, Mississippi. Also, included will be a carcass disposition training lab.

The day-long event will include a hands-on lab to look at pathological conditions, sorter training, noncompliance

report workshop and discussions with USDA Food Safety Inspection Service Jackson District office.

The event will be limited to 40 people from processing plants. Contact Mark, Reed or Lauren at 601-932-7560 for more information. ■

ROSEMARY-WALNUT OVEN FRIED CHICKEN

Mary Alice Cain, M.S., R.D., L.D., USAPEEC's Registered Dietitian

PREPARATION

1. Preheat oven to 425°.
2. Combine buttermilk and mustard in a shallow dish, stirring with a whisk. Add chicken to buttermilk mixture, turning to coat.
3. Heat a small skillet over medium-high heat. Add panko to pan; cook 3 minutes or until golden, stirring frequently. Combine panko, nuts, and next 4 ingredients (through pepper) in a shallow dish. Remove chicken from buttermilk mixture; discard buttermilk mixture. Dredge chicken in panko mixture.
4. Arrange a wire rack on a large baking sheet; coat rack with cooking spray. Arrange chicken on rack; coat chicken with cooking spray. Bake at 425° for 13 minutes or until chicken is done. Garnish with rosemary leaves, if desired. ■

INGREDIENTS

4 Servings (serving size: 1 cutlet)

- 1/4 cup low-fat buttermilk
- 2 tablespoons Dijon mustard
- 4 (6-ounce) chicken cutlets
- 1/3 cup panko (Japanese breadcrumbs)
- 1/3 cup finely chopped walnuts
- 2 tablespoons grated fresh Parmigiano-Reggiano cheese
- 3/4 teaspoon minced fresh rosemary
- 1/4 teaspoon kosher salt
- 1/4 teaspoon freshly ground black pepper
- Cooking spray
- Rosemary leaves (optional)



Recipe and photo copyright Cain's Corner, USAPEEC

My Southern grandmother would be deeply disappointed to know I was baking my “fried” chicken, but trust me: this dish is so good you won’t miss the deep fryer. For a nice crunch, walnuts serve as the “breading” in this recipe before they are crisped in the oven. Losing the frying oil means cutting back on those detrimental fats while adding walnuts increases the heart-healthy ones.

Get the crispy taste of fried chicken for less than 300 calories. Add kid appeal to this dish with a honey-mustard dipping sauce.

110 Airport Road South, Suite C
Pearl, Mississippi 39208

UPCOMING EVENTS:

*At all events involving growers, please
practice strict biosecurity procedures*

*The Grower Advisory Committee will meet
quarterly at the call of the Chairman.*

- **Beef & Poultry Expo**
THURSDAY, APRIL 14, 2022
Smith County Agricultural
Complex, Raleigh
- **MPA, Inc. Poultry
Management School**
MAY 17-18, 2022
College of Veterinary Medicine
MSU Poultry Science Dept.
- **FSIS Seminar and Lab**
JUNE 23, 2022
MSU Lab, Pearl
Sponsored by Zoetis
- **Breeder/Hatchery
Seminar**
AUGUST 10 AND 11
Collins Civic Center (10)
Pearl Lab (11)
- **MPA, Inc. Convention**
SEPTEMBER 15-18, 2022
Hilton Sandestin
Golf & Tennis Resort,
Destin, FL

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