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SILAGE HARVEST was in full swing at RHO Farms in Rush County, Ind., late last week. The silage owners are John and Jay Peggs. (Staff Photo)

Cyber attack slows FW production

For the first time in 64 years, *Farm World* had production delays due to a malware and ransomware attack on our production systems, preventing delivery of the paper to you on Wednesday.

We apologize for this delay. Our team worked through the night on Monday to get production up and running on Tuesday so we could produce a paper. As well, our advertising and production staff spent hours recreating advertising and page layouts so we could get you the paper as quickly as possible.

We appreciate your understanding of this issue.

Illinois producers eyeing an extended finish line for crops

By **TIM ALEXANDER**
Illinois Correspondent

PEORIA, Ill. — A handful of Illinois farmers can see their finish line when it comes to crop development leading to harvest. Thousands more are still wondering how far they have to go to gain a glimpse of it.

Consider: 80 percent of the 2019 Illinois soybean crop was planted after June 1, and 10 percent after July 1. More than half the corn was planted after June 1. This is a new record for late planting of soybean in Illinois, according to University of Illinois professor of agricultural economics Emerson Nafziger.

Prolonged spring rains and extended flooding, of course, were to blame for delays with both crops. The ramifications of delayed planting were reflected in the Sept. 16 USDA



WEINZIERL

Illinois Crop Progress and Condition report: just 1 percent of the Illinois corn crop had been harvested, but, more tellingly, corn planted was rated at just 67 percent — 32 percent

behind last year's pace.

And though 93 percent of soybean plants had set pods, just 25 percent were yellowing and only 3 percent dropping leaves.

Variability in corn quality and kernel quantity is rampant throughout the state, according to Illinois Corn Growers Assoc. Executive President Rod Weinzierl. He remains confident, however, that Illinois will eclipse the USDA September projection of 180 bushels per acre for the state.

"We think trend (yield) in Illinois will be around 190, 191. This will still be around 10 percent off (normal state trend yield)," said Weinzierl, a corn and soybean producer from Stanford in McLean County. "I think the challenge with figuring out yields this year is that we have April-planted corn, carrying some huge yields and looking good, but then we have the later-planted corn."

"The May-planted corn went into a lot of unfavorable conditions in a lot of places, and you might have good corn in some parts of the field and some iffy-looking corn in wetter areas.

"And then there is the June-planted crop; more corn was planted in Illinois in June than at any other time in the last three decades. That corn is at least three more weeks from black layer, which means maturity. We are running a couple of weeks late, even

on the early corn," he added.

Independent crop surveys from Weinzierl's home county project optimistic returns for corn. 2019 McLean County corn yield estimates performed by First Mid Ag Services (formerly Soy Capital Services) call for an estimated average yield of 197.3 bushels per acre — still 9 percent below the five-year average — based on 1,600 samples from 160 locations.

Bell Enterprises' survey of 131 crop fields in western McLean, Woodford, and Tazewell counties called for an "adjusted" corn yield of 204.74 bushels per acre. Pro Farmer's annual crop tour of Illinois, however, calls for just 170 for corn, along with 50 for soybeans, statewide, in 2019.

Not many soybeans in western Illinois were planted before May, meaning a lot of farmers are looking at yields more typical of late-season or double-cropped beans. This is according to Stephanie Porter, a certified crop advisor with Syngenta and past CCA Soy Envoy for the Illinois Soybean Assoc.

"We're starting to see some color change in some late-planted beans, but there is still growth going on. In western Illinois we got a lot of rain in August when others didn't, and the difference is apparent. I was in a plot in eastern Illinois yesterday and I was shocked by how bad the

condition of soybeans were there," she said.

Similar August rainfalls during 2012 boosted a threatened soybean crop in Porter's Taylorville

area, she said, and growers there are hoping for a similar result this season. However, 2019's variable weather conditions and periods of drought will negatively impact the statewide harvest.

"We have areas of the state where they had too much rain, and then other areas where drought caused issues with lack of pods. We are not seeing a lot of disease, overall, though some disease has hit late in Illinois where it was raining. I don't think (disease) will impact yield. We are also seeing stink bugs right now, but our biggest impact this year is coming from Mother Nature and the rate of planting," said Porter.

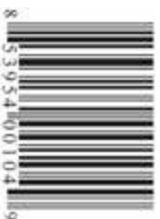
"If I had to guess, I would say we are going to be about 20 bushels less than we normally are across the state, on average."

Southern Illinois soybean yield totals will likely average around

(continued on page 2)



NAFZIGER



**SEE WHAT YOU MISSED AT THE
FARM SCIENCE REVIEW
— SECTION C**



IN THIS FARM WORLD:

- Farmers' Mental Health and how to help those in crisis Page 1B
- Scientists advancing research on seasonal swine infertility . . . Page 2

Scientists advancing research on seasonal infertility cause in swine

By DOUG SCHMITZ
Iowa Correspondent

AMES, Iowa — For the past several years, animal scientists have been advancing their research on seasonal infertility in swine and zeroing in on its causes, giving U.S. hog producers hope for its overall management, although many components factor into the livestock malady.

“There is a lot of research happening at Iowa State and other places focused on understanding how heat stress and seasonal changes affect reproduction in pigs,” said Jason Ross, Iowa State University (ISU) assistant professor of animal science and director of the Iowa Pork Industry Center.

“Anestrous, longer wean-to-estrus intervals, and reduced farrowing rates are all components of seasonal infertility,” he added. “Understanding how heat stress alters the biological networks that regulate reproduction in pigs is a critical area of research.”

Ross said some of the key findings he and ISU researchers have found were heat stress experienced by sows during gestation alters the body composition of piglets exposed to heat stress in utero.

“Furthermore, this prenatal influence of heat stress also altered the core body temperature of piglets later in life,” he said. “Collectively, we have discovered that in utero heat stress represents a previously hidden cost on pork production.”

In fact, according to Chris Hostetler, National Pork Board (NPB) director of animal science in Des Moines, who managed a five-year research project on sow lifetime productivity and seasonality infertility, the loss of productivity because of seasonal variation continues to reduce efficiencies in pork production by roughly 10 percent and approaches an annual cost to the industry of \$900 million.

Ross said he and the group of researchers have demonstrated through a series of experiments that the ovary is specifically impacted during heat stress.

“Our data demonstrate that the ovary elicits specific molecular responses to heat stress that are thought to be protective in nature,” he said. “This is an important area of understanding as it is enabling us to better understand the biological complexities the female pig utilizes in an attempt to protect the integrity of the oocytes.”

ACCORDING TO Chris Hostetler, the loss of productivity due to seasonal variation continues to reduce efficiencies in pork production by roughly 10 percent and approaches an annual cost to the industry of \$900 million.

(Courtesy of Iowa Pork Producers Assoc.)

During heat stress, he said the integrity of the gastrointestinal system (GI) is also compromised resulting in a phenomenon referred to as “leaky gut.”

“Leaky gut is when the compromised GI system enables the endotoxins into the circulation of animals,” he said. “Our recent work has demonstrated that endotoxins can directly impact ovarian function in the pigs, in part explaining how heat stress influences reproduction.”

“We have also demonstrated the heat stress during early gestation alters protein abundance in the ovarian and in the uterine environment during pregnancy establishment in pigs that may indicate some of the specific pathways through which heat stress results in reduced reproductive efficiency during the period of seasonal infertility,” he added.

Hostetler said when this effort to study seasonal infertility in swine was originally conceived by the NPB animal science committee in 2012, there were three priorities for research focus: Reduced nutrient use and productivity in market pigs; reduced carcass quality; and reduced breeding herd efficiency.

He said the key takeaways from this are that piglets that are gestated in sows during the hot summer months have an altered metabolism; and pigs finished during the hot summer months have a decreased ability to use nutrients because of compromised gut integrity.

“So not only do pigs eat less when they are hot, the nutrients that they do consume are not utilized properly,” he said.

Right now, as far as what producers can do to improve seasonal infertility, Hostetler said that is limited to adding cool pads to the ventilation of sow farms and air conditioning to boar studs.

“I know there is at least one production system that has added air conditioning to their new construction sow farms and this may catch on for two reasons: The currently available technology on air conditioning is



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Illinois producers ...

(continued from page 1)

half of what is harvested in central and western Illinois, Porter speculated.

In a Sept. 18 U of I farmdoc essay, “Corn and Soybeans Move Towards the Finish Line,” Nafziger noted that late planting seems to have resulted in lower pod numbers in soybeans in many areas.

“Plants I’ve looked at certainly have some pods at most nodes, but they aren’t crowded on the stem (nodes) like we saw in a lot of fields in 2018. Many plants have only two or three pods per node, and only 10-12 nodes with pods,” he observed.

“We don’t know if this affects yields compared to having most or all of the pods on the main stem, but given that it affects which leaves end up in full sunlight, it might mean lower rates of seedfilling in the branch pods.”

The Sept. 1 USDA yield estimate for Illinois soybeans was 53 bushels per acre, down 2 from its August 1 projected yield estimate.

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Ohio family's plow day brings out fun, fellowship in the field

By CELESTE BAUMGARTNER
Ohio Correspondent

HAMILTON, Ohio — It's just farmers having fun, friends and neighbors taking a day to forget about the things out of their control as they plowed a field and shared a meal under the trees.

It was John and Joyce Brown's third



annual Plow Day. About 22 tractors and more than 90 people came to visit, eat, and plow. Each tractor takes a furrow down the field, around, and back until the field is finished ... and stop for the occasional breakdown, since most are from the 1940s, '50s, and '60s, including a nearly 60-year-old IH Farmall 806 front-wheel drive.

There is no judging, and no awards for any of this, except a couple gag prizes.

"We're having an old-fashioned plow day," John Brown said the day of the

JOYCE AND JOHN BROWN'S Plow Day is a way to honor America and traditional farming practices with friends and old equipment. (Courtesy of Gail Lierer)

THE ENTIRE BROWN CLAN pitches in to put on the plow day. Pictured are Jenna Boyd, John and Joyce Brown, Jarrett Boyd, Liam Watts, Jamie (Brown) Watts, Jessica Brown, Lyla Watts, Jonathan Boyd, Jody (Brown) Boyd, and Steve Boyd. Not pictured is son-in-law Phil Watts.

(Celeste Baumgartner photo)



event. "Just a bunch of neighbor farmers plowing, sharing fellowship, and food. It's a fun time for everybody, and people love it. My family kicks in to help pull this thing off. Strangers stop in to watch the plowing."

Many customers from Brown's Farm Market just down the road stopped in to see what was going on.

Dave and Gail Lierer came with family, several tractors, and plows. "We come and have fun, relieve some stress, bring out the old tractors and the plows, because farmers rarely use plows anymore - everything is mostly no-till.," Gail said. "The red tractors outnumber the green because John Brown is an IH man."

Matt Teeters followed his furrow on a 1937 Farmall F-20, the oldest tractor plowing that day. Teeters, 20, has autism. He bought the tractor a couple months back so he could take part in the



plow day, according to his mom, Angel Teeters.

"He loves it," she explained.

"Prices, the weather - it's all out of control," said Mike Bushelman. "So we're just here having fun."

Added his wife, Linda: "We're farmers at heart; that's why we're here today."

Jessica Brown, John and Joyce's daughter, said, "We left this field open purposely for field days. We planned the crop rotation and planting, so we had an area to be plowed. We like to get the community together for an old-fashioned day of camaraderie and plowing."

"It's something we have done for several years now, just to get the neighbors together, to be able to work the ground together," said another daughter, Jody Boyd. "I think they like the teamwork, working together."

"It's a way to honor our past, to honor America, honor traditional farming practices, and it's a fun gathering of good friends."

MATT TEETERS FOLLOWS his furrow on a 1937 Farmall F-20 - the oldest tractor plowing that day. He bought the tractor a couple months back so he could take part in the plow day.

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VIEWS AND OPINIONS

Carpenters helped build this country

In the early-morning fog the other day, I heard a claw hammer's *tap, tap, bam, bam, bam, boom* drive a nail into its place for who knows how many years. A moment later, another six clear, sharp notes cut through the fog and another nail was set for maybe a century or more.



FARM AND FOOD FILE
By Alan Guebert

There were no carpenters on the southern Illinois dairy farm of my youth. The closest anyone came was my father, who, in the shade of a big maple tree one summer, made several tongue-in-groove hayracks. It wasn't fine woodworking, but the racks were square and so solid that each brought good money at his retirement auction more than 40 years later.

When a real carpenter was required, my father called either Elmer N. or Buddy S. for the job. Elmer was younger, faster, more professional, and lived just 12 miles away in an old French town guarded by towering river bluffs. Buddy, whose real name I still don't know, lived farther away, was older, slower, and loved to chat, joke, and watch the farm's hired men, cows, and anyone else who might distract him from the task at hand.

There were other differences between the two. Elmer was a no-nonsense builder, someone who tackled the job every morning as if he had spent half the previous night choreographing the next day's every move to make the most of his effort and your dollar.

Buddy, on the other hand, was more of a remodeler, someone whose patience - others might say slowness - gave him time to know what to do next without ever re-measuring, re-sawing, or regretting.

Buddy also could be humorously absentminded. Twice, for example, I witnessed him saw through the extension cord to his circular saw while cutting plywood. Each time he simply smiled a small, resigned smile and added another lumpy electrical tape splice to the several splices already in the cord.

Elmer's extension cord was like Elmer; not one splice. He was a round man with a sharp aquiline nose and a carpenter's pencil stuck into his cap just in front of his right ear. He wore matching shirts and pants, always a workman's tan, heavy leather work shoes, and, if chilly or cold, a matching jacket or coat.

And he was a solo act - no gofer, apprentice or assistant helped, slowed, or learned from Elmer. When you hired him to, say, put an addition on your house, Elmer dug the building's foundation, set the concrete forms, then coordinated the concrete pour before singularly completing the framing, wiring, plumbing, insulating, roofing, cabinetry, plastering, and trim work by himself.

Alas, he didn't paint.

Equally impressive, at least to my mother, was how he left his work site each day: it was as clean - maybe even cleaner - than her well-scrubbed kitchen.

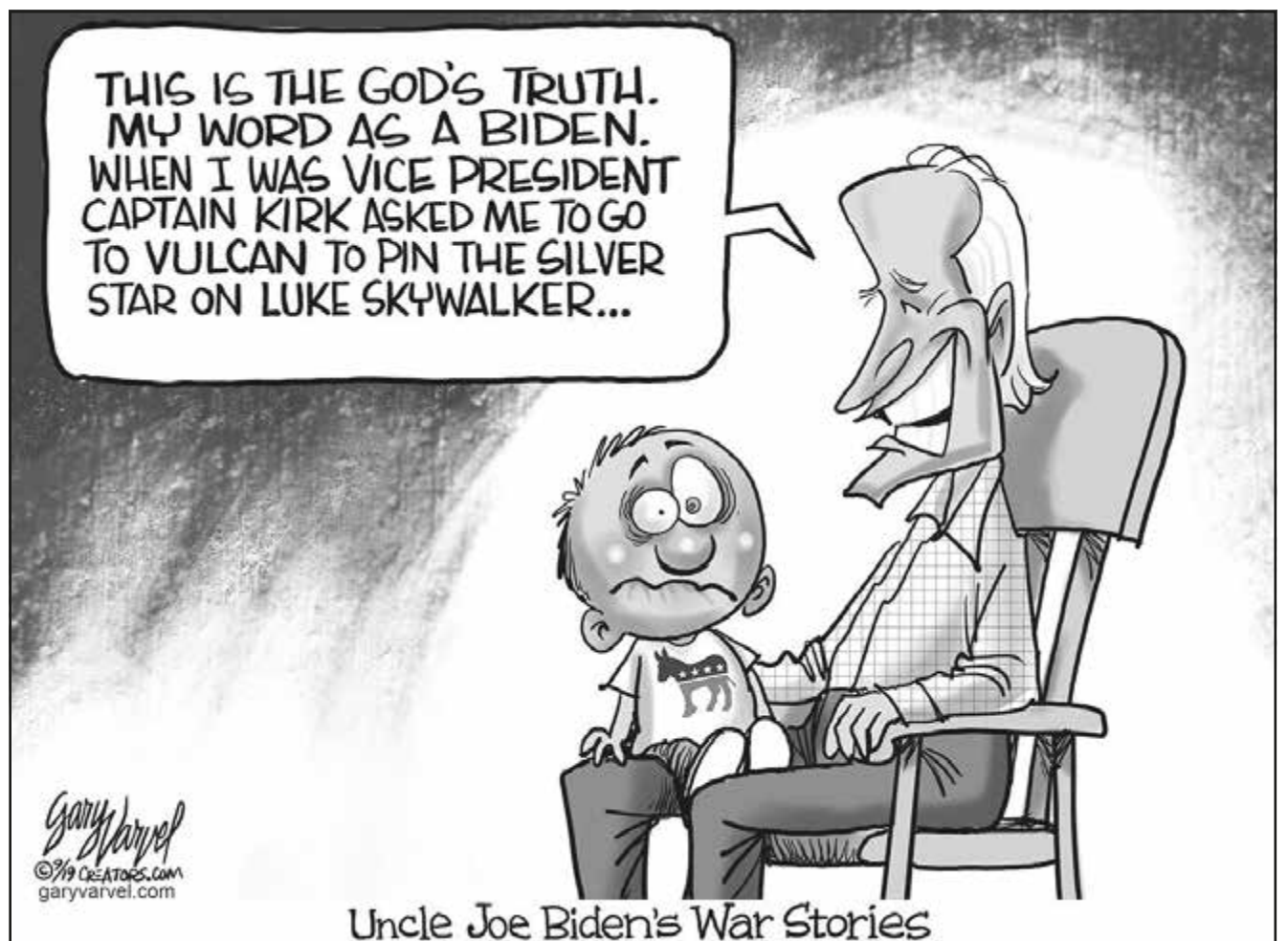
Elmer had two other talents that I've rarely seen matched. First, he sawed nearly every board by hand. His saw was sharp, his stroke short, and his cut straight and quick.

His other unmatched talent was sweating. He seemed to sweat from the moment he arrived in the morning until the moment he left in the evening. And, most remarkably to me anyway, was how the sweat dripped from the tip of his elegant nose, drop by drop, exactly onto the board he was cutting with every stroke he made with his handsaw.

Buddy, by contrast, was an elfish man in overalls, a cotton shirt, and high-top work shoes. He trudged more than he walked, rarely moved so fast as to break a sweat, and wore an infectious smile from morning to quitting time. For years Buddy's work vehicle was a 1957 Chevrolet Impala whose outside mirrors dangled baling twine like parade streamers when not holding two-by-fours en route to a job site.

Despite their differences in appearance and approach, both Buddy and Elmer were well-regarded in their communities and by my father.

(continued on page 5)



Come to my ranch for a visit, Ellen

It's been a rollercoaster of a week for us at our ranch in eastern South Dakota. From massive flooding to a viral blog post that has garnered millions of page views, I don't think I could have prepared myself for the highs and lows of the last seven days (as of last Friday).

While we contended with flooded pastures and a wet basement, some of our neighbors had it much worse. One of our friends had to evacuate her home with her family in the middle of the night. Another producer in our area lost 18 fat steers due to a lightning strike. And to top it all off, three tornadoes touched down an hour from us in Sioux Falls, devastating homes and businesses in the urban area.

Of course, these events compounded the stress producers are already facing with ongoing trade wars, suspicions of cattle market manipulation, low commodity prices, rising debt loads, and many of our acres sitting underwater and unplanted. In a nutshell, 2019 has been tough.

And to add insult to injury, there are celebrities, politicians, and media pundits who currently think it's trendy to blame climate change on cattle. It's a myth our industry continues to battle, but it's only gotten worse in recent years.

I was reminded of this ongoing challenge earlier this week when I watched a video of celebrity talk show host Ellen DeGeneres urging her fans to eat less meat, for

the planet, for our health, and for the animals. After seeing the millions of likes and comments that she proceeded to get, I sat down and penned a letter on my blog, *BEEF Daily* (www.beefmagazine.com), to share the facts about beef and nutrition, cattle and climate, and who we are in rural America.

The blog is too lengthy for this column, but here is an excerpt: "We can't eat our way out of climate change. I promise. I care about the planet as much as you. I want a future where my children and grandchildren will have access to an abundance of natural resources, including clean air, fresh water, and nutritious food. And I believe farmers and ranchers can be part of the solution to address our planet's climate concerns."

"Ellen, I know you want to do good in this world, and so do I! If you truly want to promote planetary health and adequate nutrition for all, please urge your fans to focus on reducing food waste! Did you know that 40 percent of all the food brought home in American goes uneaten? This is enough to fill a 90,000-seat Rose Bowl stadium every single day!

"I invite you and Portia to visit our ranch in South Dakota! Better yet, this farm girl would love to come visit you in Los Angeles and share some agricultural stories on your TV show!"

(continued on page 5)



AMANDA RADKE and her cattle angling for some time to talk about beef production on "Ellen."

Don't overlook available education at a farm show

Farm shows have rows upon rows of the latest and greatest in farm tools and implements; however, you don't need to be in the market for the newest combine in order to get a lot out of a good farm show. As a matter of fact, shows are a wealth of information for those who take the time to review the schedules and visit all the booths.

At the Farm Science Review last week in Ohio, I sat in on three "Ask the Expert" talks. These were 20-minute programs that ran all day. A

printed schedule allowed visitors to determine which days and times the topics they might be the most interested in would be presented.

Not only are talks like this a great way to get free education, they provide a place to sit and rest from the rigors of walking up and down miles of aisles. I listened to talks on trends in cash rents and land values in Ohio, the legalities of growing hemp in Ohio, and the issues of farm stress. I will talk more about these seminars in an upcoming column.

I wanted to stay for an overview of swine flu, but I was starving and it was noon. The aromas of cooking were permeating the air. What to choose: Mexican, pork, or beef? The selections were endless, as were the lines. When it is noon at a farm show, everyone is eating.

I finally just stopped in front of a tent with what appeared to be a moderate line and decided whatever they were serving was what I was eating. It was the Ohio Beef Producers tent and they were offering ribeye and chopped steak sandwiches. As I sweltered in the heat waiting for the line to at least inch up

to the shaded portion of the tent, a frantic-looking teenager ran out and announced the ovens were broken and there were no more ribeye sandwiches, but they did still have chopped steak.

No one got out of line. We were committed at this point. Whatever they had left would be just fine.

I had a delicious chopped steak sandwich with fries and an apple. And they served delicious unsweetened iced tea. I am a connoisseur of unsweetened tea and this was truly tasty. I

shared a table with other hungry people and we remarked on the weather (hot, but a nice breeze); the crowds (could always be better); and "having fun?" (a resounding "yes").

One of the barns housed educational opportunities in the form of lawyers who could answer agriculture-related questions. There were racks of legal bulletins from The Ohio State University College of Food, Agricultural, and Environmental Sciences. You could find everything from what to know about hemp to how to deal with trespassers on your property.

What was interesting to me about the trespassing bulletin was under the heading "What About Trespassing Children?" As a child who trespassed often (especially during mushroom hunting season), I can relate to this.

For one thing I was a "known" trespasser. The people knew I was there, but they never officially gave me written permission to be there. A known trespasser presents more dangers than one you didn't know about, or a person who you gave written permission to use your property.

NOTES FROM THE EDITOR

By CONNIE SWAIM



THE OHIO BEEF PRODUCERS offered ribeye and chopped steak sandwiches, as well as apples, fries, and a variety of drinks. There is always amazing food at a farm show.

The Ohio "attractive nuisance" law applies if there is a dangerous "artificial" condition that attracts a child but also "creates an unreasonable risk of harm to the child. If it is foreseeable to a landowner that a child would be drawn to the attractive nuisance, the landowner must take steps to keep the child away from it or from being harmed by it. A landowner who fails to do so could be liable for the child's harm and for the harm to a trespassing adult who tries to rescue the child."

Examples of attractive nuisances

on the farm include: manure lagoons (when I think "attractive," this does not come up high on my list), machinery, grain bins, grain elevators, ladders, and hay lofts. Oddly enough, animals and natural conditions such as ponds are not attractive nuisances under Ohio law.

There were plenty of opportunities for visitors to learn about the right and wrong way to lift a bale of hay or bag of feed, to prevent back problems. You could learn ways to keep yourself healthy and happy on the farm.

In less than 30 minutes I picked up more than 100 pamphlets and bulletins on a wide range of topics. Other people might have been looking for the free pens or other swag, but the important information was there for anyone who took the time to look.

The next time you see a farm show advertised, don't dismiss it just because you may not be looking for new equipment or a new type of seed. Take the time to look at the vendors and talk to them. You will find hundreds of dollars of free education just waiting to be picked up.

If you are looking for another great show to attend, keep the Indiana Farm Equipment and Technology Show in mind. It will be held Dec. 17-19 at the Indiana State Fairgrounds in Indianapolis. The show is sponsored by *Farm World* and *Hoosier Ag Today*. For more information, visit www.indianafarmexpo.com

Carpenters helped build ... (continued from page 4)

Both were board-by-board, brick-by-brick workmen who literally built their small corner of this nation. Now, like my father, both are long gone.

Their work, however, endures as a lasting testament to their innate talent and quiet lives – and likely will for many decades more.

The views and opinions expressed in this column are those of the author and not necessarily those of *Farm World*. Readers with questions or comments for Alan Guebert may write to him in care of this publication.

Come to my ranch for a ... (continued from page 4)

"Could you find room in your programming for this cattlemaster to come sit in your seat on air? I would be very grateful for the opportunity!"

If you feel so inclined, I would love for you to check out my original blog post and give it a share. I'm not overly optimistic that Ellen will call me; however, the blog continues to make the rounds on social media, and my phone has been buzzing with media requests.

So even if Hollywood wants to ignore my message, other outlets and their listeners/viewers are getting to hear my message. I'm incredibly grateful for these opportunities and will continue to advocate as long as I have a platform to do so.

Now, I need your help in joining me in sharing our positive agricultural stories. We must continue this momentum to change public perception about who we are and what we do in animal agriculture.

This issue isn't going away. In fact, if you listen to some of the Democratic hopefuls for the U.S. presidential election, you'll notice a common theme – the majority have platforms to address climate change, and guess who they are directing their policies, regulations, and tax increases on to attempt to curtail emissions? You guessed it: America's farmers and ranchers.

If that's not a wake-up call, I don't know what is. Let's rally together, folks, and get to work. We can no longer sit idle and let others do the talking for us. Do you agree? Email me your thoughts at amanda.radke@live.com

The views and opinions expressed in this column are those of the author and not necessarily those of *Farm World*. Readers with questions or comments for Amanda Radke may write to her in care of this publication.

Country Chuckles by Jonny Hawkins



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Former USDA secretaries voice support for USMCA

All former U.S. Secretaries of Agriculture since President Reagan announced support for the United States-Mexico-Canada Agreement (USMCA). In a letter to Congressional leaders, former Secretaries John Block (Reagan), Mike Espy (Clinton), Dan Glickman (Clinton), Ann Veneman (W. Bush), Mike Johanns (W. Bush), Ed Shafer (W. Bush), and Tom Vilsack (Obama) underscored the importance of passing USMCA saying, "We need a strong and reliable trade deal with our top two customers for U.S. agriculture products. USMCA will provide certainty in the North American market for the U.S. farm sector and rural economy. We strongly support ratification of USMCA."



MIELKE MARKET WEEKLY
By Lee Mielke

U.S. milk production remains above a year ago but not by much. The Agriculture Department's latest Milk Production report showed preliminary output at 18.28 billion pounds, up 0.2 percent from August 2018. Output in the top 24 states hit 17.4 billion pounds, up 0.4 percent. Revisions added 40 million pounds to the original July total, now put at 18.37 billion pounds, up 0.2 percent from July 2018.

Dairy farmers culled more cows in August than in July but the number was below a year ago. The Agriculture Department's latest Livestock Slaughter report shows an estimated 266,600 head were slaughtered under federal inspection, up 9,800 head from July but 13,100 or 4.7 percent below a year ago. The eight month cull count climbed to 2.16 million head, up 72,800 or 3.5 percent from a year ago.

The global dairy market looked a little more positive this week. Tuesday's Global Dairy Trade auction (GDT) saw its weighted average of products offered end three consecutive declines. The average jumped 2.0 percent, following a 0.4 percent slip on Sept. 3, 0.2 percent on August 20 and 2.6 percent on August 6. Sellers brought 82.3 million pounds of product to the market, down from 87.5 million in the last event.

The gains were led by lactose, skim milk powder, butter, whole milk powder, anhydrous milkfat and GDT cheddar. Rennet casein was the only product in negative territory. Most mid-September dairy product prices plummeted, as traders awaited the August Cold Storage report. The 40-pound Cheddar blocks shot up to \$2.2375 per pound Monday, highest CME price since Oct. 22, 2014, but then plunged to \$2.0450, and closed Friday at \$2.05, down 15 1/2-cents on the week, after pole vaulting 20 3/4-cents the previous week, but is 41 1/2-cents above a year ago.

U.S. milk fat prices remain at a premium to prices elsewhere in the world. Some processors feel that while demand has been able to support prices domestically, a few customers may seek imports. U.S. stocks are readily available and growing, according to some. Ice cream production has dropped off and butter makers want to control inventories but plentiful cream keeps moving to the churn.

Grade A nonfat dry milk marched to \$1.0825 per pound by Friday, up 2 3/4-cents on the week and the highest since Oct. 5, 2015, and 21 cents above a year ago. Only 2 cars were sold on the week.

Dry whey held all week at 39 3/4-cents per pound, 11 3/4-cents below a year ago, with 2 cars finding new homes on the week.

The Agriculture Department announced the October Federal order Class I base milk price at \$17.84 per hundred-weight, down a penny from September but \$1.51 above October 2018, and the highest October Class I since 2014. The price equates to \$1.53 per gallon, up from \$1.40 a year ago. The 2019 Class I average stands at \$16.64, up from \$14.76 a year ago and \$16.41 in 2017.

Dairy margins improved significantly since August due primarily to surging milk prices as feed costs have held steady, according to the latest Margin Watch (MW) from Chicago-based Commodity & Ingredient Hedging LLC.

The MW stated that a shortage of Cheddar blocks in the cash market caused prices to spike. "Cheddar barrel availability has not been nearly as tight given the industry's

(continued on page 10)

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- Meyer V-Force 7500, 500 bu. sprdr., tandem axle, 16.5x16.1 tire, Demo \$25,500
- Tar-River 6' rotary tiller, used very little \$1,500
- 2015 Bobcat S630 skid loader/78" bucket \$28,500
- 1996 Gleaner R52 combine RWA 30.5x32 tires, 16.9x26 tires, feed reverser, Cummins eng., 2003 Gleaner 8000-20' flex grain head \$51,000 for both
- New Idea 486 (5x6) round baler, twine tie, field ready \$5,500
- Hesston 5545 round baler, 4x5 twine tie. \$6,000
- 1983 Gleaner F2 combine, hydro, 15' flex grain head, 4-30 corn head, header wagon. \$15,000
- Unverferth 1225, 24' double basket rolling harrow. \$10,500
- NH 499 12' haybine, very clean machine. \$5,500

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- Brillion 5 shank V-ripper (shear bolt) \$1,250
- 3 pt. hitch, 10 shank chisel plow, spring shank \$1,000
- Gleaner L2 combine, hydrostatic drive \$5,000
- 215 flex grain head \$2,500
- 6-30 corn head \$1,500
- Header wagon (homemade) \$500



One big, pesky weed means multiple farmer headaches

By DOUG GRAVES
Ohio Correspondent

COLUMBUS, Ohio — Image a weed so troublesome that has mutated to resist multiple herbicides. Palmer amaranth, a member of the pigweed family, is spreading across states and growing in strength.

“If farmers and weed scientists cannot find a new solution, crop yields could decline substantially, according to an article in *Chemical and Engineering News* (CEN), the weekly news magazine of the American Chemical Society.

“Scientists are calling Palmer amaranth a ‘game changer’ because of its ability to quickly develop resistance to herbicides, including the mainstay,

glyphosate,” said Melody Bomgardner, CEN senior business editor. Unlike other weeds that have developed resistance, amaranth does not pay a ‘fitness penalty’ for the adaption but instead thrives and produces new generations of resistant plants. “A single female Palmer amaranth can make up to one million seeds. The weed out competes crops for sun, water and nutrients, with the potential to drastically reduce yield for crops such as corn and soybeans.”

Statistics from the United States Department of Agriculture, Palmer amaranth is on the rise in the Midwest. The pesky plant made its way into Indiana in 2011, spreading to Illinois, Michigan and Ohio in 2012.

“Prior to 2015, there were only a couple of outbreaks of Palmer amaranth

in Ohio,” said Dr. Mark Loux, Ohio State University horticulture and crop scientist. “Palmer amaranth was first found in Pennsylvania in 2013 and has quickly spread. The super weed has been found in alfalfa, corn and soybean fields in both states.”

Loux says the pesky weed has made its way into 11 Ohio counties. According to Penn State Extension, between 12 and 15 sites were found in Lancaster County alone by the end of 2015.

Wisconsin became affected, followed by South Dakota in 2014. In 2018, Palmer amaranth was discovered in North Dakota and Wyoming. Now, only nine of the 40 continental U.S.

states remain unaffected by this prolific weed.

“Because the weed is so versatile and spreads so rapidly, scientists are working to discover solutions fast,” Bomgardner said. “They want to identify the genes or mechanisms that cause resistance, which could lead to more specific recommendations for herbicides. Unlike most weeds, Palmer amaranth is dioecious, with both male and female plants. Experts could someday introduce modified weeds with pollen that produces only male plants, which could eventually cause the population to crash. For now, farmers are encouraged to use a combination of pre- and post-emergent herbicides, as well as alternative strategies, such as planting winter cover crops and implementing crop rotation approaches.”

The weed has been detrimental to southern states as well. According to Extension specialists in Georgia and Arkansas, Palmer amaranth has invaded more than 750,000 acres of cotton and other row crops in Arkansas and more

(continued on page 10)

PALMER AMARANTH is easily spotted in most any soybean field, but among corn the plant often goes undetected.
(Courtesy Ohio State Univ.)



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- Kubota RTV900 XT camo, 200 hrs., exc. \$10,900
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MARKETS

Weekly National Sheep Summary

For the Week Ending Friday, September 20, 2019

Weekly Trends: Compared to last week slaughter lambs were steady to as much as 20.00 lower with the greatest decline at New Holland, PA. Slaughter ewes were steady to 10.00 lower. Feeder lambs were 3.00-8.00 higher. At San Angelo, TX 5857 head sold. No sales in Equity Electronic Auction. In direct trading slaughter ewes not tested and feeder lambs firm. 4300 head of negotiated sales of slaughter lambs were steady. 3,234 lamb carcasses sold with all weights no trend due to confidentiality. All sheep sold per hundred weight (CWT) unless otherwise specified.

Slaughter Lambs: Choice and Prime 2-3 90-160 lbs:
 San Angelo: 100-145 lbs 120.00-133.00.
 PA: woolled and shorn 105-150 lbs 160.00-210.00; 155-185 lbs 155.00-165.00.
 Ft. Collins, CO: woolled and shorn 105-140 lbs 150.00-157.00; 150-180 lbs 139.00-143.00.
 South Dakota: woolled and shorn 105-150 lbs 146.00-151.00.
 Kalona, IA: woolled and shorn 100-130 lbs no test.
 Billings, MT: no test.
 Missouri: no test.
 Equity Elec: no sales.
 Slaughter Lambs: Choice and Prime 1-2:
 San Angelo: hair lambs 40-60 lbs 200.00-218.00; 60-70 lbs 184.00-200.00, few 212.00; 70-80 lbs 176.00-192.00, few 196.00; 80-90 lbs 148.00-178.00, few 186.00-188.00; 90-110 lbs 140.00-154.00, woolled and shorn 83 lbs 168.00.
 Pennsylvania: woolled and shorn 50-60 lbs 220.00-240.00; 60-70 lbs 185.00-220.00; 70-80 lbs 177.00-205.00; 80-90 lbs 180.00-200.00; 90-100 lbs 180.00-200.00, hair lambs 50-60 lbs 207.00-240.00; 60-70 lbs 180.00-210.00; 70-80 lbs 162.00-195.00; 80-100 lbs 160.00-190.00.
 Kalona, IA: woolled and shorn no test, hair no test.
 Ft. Collins: woolled and shorn 75 lbs 170.00; 90-100 lbs 150.00, hair 70-80 lbs 140.00-146.00; 80-90 lbs 136.00-143.00; 90-110 lbs 134.00-137.50.
 Missouri: hair 50-60 lbs 165.00-180.00; 60-70 lbs 180.00-187.00; 70-80 lbs 130.00-150.00, woolled and shorn 60-70 lbs 150.00-165.00; 70 lbs 170.00.
 South Dakota: woolled and shorn 70-80 lbs 152.50-156.00; 90 lbs 156.00; 113 lbs 151.00.
 Billings, MT: no test.
 Direct Trading: (lambs fob with 3-4 percent shrink or equivalent)
 4300: Slaughter Lambs shorn and woolled 126-155 lbs 140.00-160.00 (wtd avg 150.58).
 WY: 12000: Feeder Lambs 80-100 lbs 160.00-180.00.
 MT: 8500: Feeder Lambs 90-110 lbs 160.00-176.00.
 Northern Video Auction

(fleshy) 65.00-95.00, hair 70.00-102.00; Utility 1-2 (thin) 45.00-65.00; Cull 1 no test.
 Ft. Collins: Good 3-5 (very fleshy) 74.00-82.00; Good 2-3 (fleshy) 64.00-77.50; Utility 1-2 (thin) 46.00-56.00; Cull 1 (extremely thin) no test.
 Billings, MT: Good 3-4 (very fleshy) no test; Good 2-3 (fleshy) no test; Utility 1-2 (thin) no test; Cull 1 no test.
 So Dakota: Good 3-4 (very fleshy) 55.00-77.00; Good 2-3 (fleshy) 59.00-72.50; Utility 1-2 (thin) 50.00-56.00; Cull 1 22.50-26.00.
 Missouri: Good 2-3 90.00-125.00; Utility and Good 1-3 55.00-85.00; Cull and Utility 1-2 30.00-65.00.
 Kalona: Good 3-4 (very fleshy) no test; Good 2-3 (fleshy) no test; Utility 1-2 (thin) no test.
 Feeder Lambs: Medium and Large 1-2:
 San Angelo: 65-80 lbs 178.00-179.00; 83 lbs 168.00.
 Ft. Collins: 80-90 lbs 157.50-158.00; 99 lbs 151.00; 117 lbs 143.00; 120-125 lbs 135.00-140.00; 131 lbs 113.00.
 Billings: no test.
 Kalona: no test.
 So. Dakota: 44 lbs 185.00; 50-60 lbs 175.00-206.00; 60-70 lbs 170.00-182.50; 70-80 lbs 162.00-178.00; 80-90 lbs 160.00-171.00; 90-100 lbs 149.00-163.00; 100-110 lbs 145.00-162.00; 110-115 lbs 143.00-146.00; 125 lbs 143.00.
 Missouri: no test.
 Replacement Ewes: Medium and Large 1-2:
 San Angelo: hair ewe lambs 105 lbs 158.00 cwt; mixed age hair ewes 80-130 lbs 90.00-110.00 cwt.
 Ft. Collins: young to middle age 165.00 per head; middle age 135.00 per head; hair ewe lambs 90-95 lbs 175.00-196.00 cwt; yearling hair ewes 175.00-200.00 per head; young to middle age hair ewes 125.00 per head; ewes with lambs 200.00 per family.
 Billings: no test.
 So Dakota: ewe lambs 67 lbs 192.00 cwt, 80-90 lbs 175.00-211.00 cwt, 90-95 lbs 160.00-188.00 cwt, 110-120 lbs 145.00-146.00 cwt, 125 lbs 144.00 cwt; yearlings 135.00-275.00 per head; young to middle age 110.00-195.00 per head; middle age 100.00-240.00 per head; aged 80.00-195.00 per head.
 Kalona, IA: no test.
 Missouri: no test.
 National Weekly Lamb Carcass Choice and Prime 1-4:

Weight	Head	Wt Avg
45 lbs down	Price not reported due to confidentiality	
45-55 lbs	Price not reported due to confidentiality	
55-65 lbs	Price not reported due to confidentiality	
65-75 lbs	Price not reported due to confidentiality	
75-85 lbs	Price not reported due to confidentiality	
85 lbs up	Price not reported due to confidentiality	

Sheep and lamb slaughter under federal inspection for the week to date totaled 37,000 compared with 36,000 last week and 38,000 last year.

Source: USDA Market News Service, San Angelo, Texas
 Rebecca Sauder 325-653-1778
 www.ams.usda.gov/mnreports/SA_LS850
 www.ams.usda.gov/LSMarketNews

Lexington, KY - Blue Grass Stockyards Cattle Weekly Summary Report

Thursday, September 19, 2019

Receipts: 1629 Last Week: 1777 Year Ago: 1983

Compared to last week feeder steers and heifers sold unevenly steady to 2.00 lower on light to middleweight calves with moderate demand. Yearlings sold steady to 2.00 higher with moderate demand. Quality was average through good. Slaughter cows and slaughter bulls sold 2.00 lower with moderate demand.

Feeder Steers: Medium and Large 1-2 200-300 lbs few 141.00; 300-400 lbs 136.00-146.00; 400-500 lbs 125.00-139.00 fancy 140.00-147.00; 500-600 lbs 124.00-136.00 value-added 137.00-144.00 including 42 head(blk-few charx) 546 lbs 142.25; 600-700 lbs 120.00-126.00 value-added 127.00-136.00 including 20 head(blk) 625 lbs 135.50 and 25 head(blk) 675 lbs 136.00; 700-800 lbs 126.00-136.50 including 40 head(blk) 714 lbs 134.75; 800-900 lbs 120.00-132.00 including 53 head(blk-charx) 132.00; 900-1000 lbs 127.00-131.00 including 60 head(mixed) 901 lbs 127.75 and 82 head(blk) 921 lbs 131.00. Medium and Large 2-3 200-300 lbs few 110.00; 300-400 lbs 110.00-131.00; 400-500 lbs 120.00-124.00; 500-600 lbs 112.00-123.00; 600-700 lbs 104.00-119.00; 700-800 lbs 102.00-115.00; 800-900 lbs 91.00-99.00; 900-1000 lbs 101.00-114.00.
 Holstein Steers: Large 3 800-900 lbs 19 head 848 lbs 85.00; cpl 1220 lbs 59.00.
 Feeder Heifers: Medium and Large 1-2 200-300 lbs 110.00; 300-400 lbs 110.00-119.00 fancy 120.00-125.00; 400-500 lbs 111.00-120.00 fancy 121.00-122.75 including 47 head(blk-few chax fancy) 472 lbs 122.75; 500-600 lbs 108.00-117.00 fancy 118.00-125.00; 600-700 lbs 108.00-119.00 value-added 120.00-131.50 including 85 head(blk-charx) 626 lbs 131.50 and 33 head(blk) 637 lbs 124.50; 700-800 lbs 108.00-110.00; 800-900 lbs 64 head(blk) 826 lbs 120.60. Medium and Large 2-3 200-300 lbs few 90.00-100.00; 300-400 lbs 104.00-109.00; 400-500 lbs 100.00-110.00; 500-600 lbs 100.00-110.00; 600-700 lbs 97.00-104.00; 700-800 lbs 99.00-107.00; 800-900 lbs few 86.00.

Feeder Bulls: Medium and Large 1-2 200-300 lbs 135.00-142.00; 300-400 lbs 130.00-140.00 fancy 141.00-146.00; 400-500 lbs 121.00-137.00 fancy 138.00-144.00; 500-600 lbs 115.00-127.00; 600-700 lbs 101.00-116.00; 700-800 lbs 112.00. Medium and Large 2-3 400-500 lbs 115.00-120.00; 500-600 lbs 100.00-114.00; 700-800 lbs 92.00-95.00; 800-900 lbs 92.00-95.00.
 Slaughter Cows:
 % Lean Weight Avg Dress Hi Dress Lo
 Dress Breakers 70-80 1100-1500 lbs 48.00-54.00 55.00-61.00 40.00-47.00
 Boners 80-85 1100-1300 lbs 48.00-55.00 56.00-58.00 42.00-47.00
 Lean 85-90 950-1200 lbs 43.00-48.00 49.00-53.00 38.00-42.00
 Slaughter Bulls:
 Weight Average Dress High Dress
 Low Dress Y.G. 1-2 1240-1995 80.00-87.00 88.00-89.00 76.00-79.00
 Bred Cows: Medium and Large 1-2 890-1360 lbs middle-aged 4-9 months bred 700.00-900.00. Medium and Large 2-3 middle-aged 1115-1255 lbs 1-6 months bred 575.00-650.00. Small 1-2 1205 lbs 4-6 months bred 525.00.
 Cow/Calf Pairs: Medium and Large 2-3 1000-1100 lbs 1085 lbs with 150 lbs calf at side 650.00.
 **This report reflects the majority of cattle sold with a usda grade, weight and sex. This report does not reflect all animals sold on the above date.

Source: KY Dept of Ag-USDA Market News, Lexington, KY
 Bill Holleran Telephone: (502) 782-4139
 24-Hour Market Recording for KY 800-327-6568
 www.ams.usda.gov/mnreports/lg_LS145.txt

Kentucky Barge Report

Tuesday, September 24, 2019

Spot bids to producers at selected barge loading terminals on the Ohio and Mississippi Rivers, Kentucky and Barkley Lakes.

US NO 2 YELLOW CORN				
	Bids	Change	Basis	Change
Purchase	3.5475	UP 1.5	-20Z	UNCH
Lower Ohio	3.5675-3.6175	UP 1.5	-18Z to -13Z	UNCH
Upper Ohio	3.8575	UP 1.5	11Z	UNCH

US NO 2 WHITE CORN				
	Bids	Change	Basis	Change
Purchase	4.5000	UP 1		
Lower Ohio	4.2500	UP 2		

US NO 1 YELLOW SOYBEANS				
	Bids	Change	Basis	Change
Purchase	8.4925-8.5625	UP 1.75-UP 3.75	-45X to -38X	UNCH-UP 2
Lower Ohio	8.5425-8.6825	UP 1.75	-40X to -26X	UNCH
Upper Ohio	8.4725-8.6725	UP 2.75-UP 4.75	-47X to -27X	UP 1-UP 3

US NO 2 SOFT RED WINTER WHEAT				
	Bids	Change	Basis	Change
Purchase	NA	NA	NA	NA
Lower Ohio	NA	NA	NA	NA
Upper Ohio	NA	NA	NA	NA

US NO 2 SORGHUM 58 LB BU				
	Bids	Change	Basis	Change
Lower Ohio	3.5975	UP 1.5	-15Z	UNCH
Purchase	NA	NA	NA	NA

Opening Contract Prices for Contract delivery

US NO 2 YELLOW CORN				
	Bids	Change	Basis	Change
Purchase	3.8050-3.9150	UP 1.25	-5H to 6H	UNCH
Lower Ohio	3.8350-3.8750	UP 1.25	-2H to 2H	UNCH
Upper Ohio	3.8250-3.8750	DN 1.75-UP 1.25	-3H to 2H	DN 3-UNCH

US NO 2 WHITE CORN				
	Bids	Change	Basis	Change
Purchase	4.6100	UP 2-UP 1		
Lower Ohio	4.5100-4.5600	UP 2		

US NO 1 YELLOW SOYBEANS				
	Bids	Change	Basis	Change
Purchase	8.4625-8.5825	UP 1.75-UP 5.75	-48X to -36X	UNCH-UP 4
Lower Ohio	8.5525-8.6425	UP 0.75-UP 1.75	-39X to -30X	DN 1-UNCH
Upper Ohio	8.4425-8.6725	UP 4.75	-50X to -27X	UP 3

US NO 2 SOFT RED WINTER WHEAT				
	Bids	Change	Basis	Change
Purchase	4.8325-5.0125	UNCH-DN 2.01	-15N to 3N	UNCH-DN 2.01
Lower Ohio	4.9225-4.9325	UNCH	-6N to -5N	UNCH
Upper Ohio	4.7325-4.8825	UNCH	-25N to -10N	UNCH

US NO 2 SORGHUM 58 LB BU				
	Bids	Change	Basis	Change
Lower Ohio	NA	NA	NA	NA
Purchase	NA	NA	NA	NA

Purchase-Ledbetter and west; including Lake terminals

Lower Ohio-Louisville to Ledbetter

Upper Ohio-Cincinnati to Louisville

Source: USDA-KY Dept of Ag Market News Service, Frankfort, KY
 Jodee Inman 502-782-4138

www.ams.usda.gov/mnreports/SV_GR111.txt

www.ams.usda.gov/LPSMarketNewsPage

Missouri Weekly Hay Summary

Week ending 9/13/2019

The mercury stayed well above average this week, although rain and more seasonal temperatures are in the forecast for the weekend and into next week. Hay movement remains slow and prices are steady to weak, especially on average to lower quality hay which there seems to be no shortage of at the current time. Although most producers of grass hay have put equipment up for the year there is still some haying going on as the season continues to drag on. Hay supplies are moderate, demand is light to moderate. The Missouri Department of Agriculture has a hay directory available for both buyers and sellers. To be listed, or to view the directory visit <http://mda.mo.gov/abd/haydirectory/> for listings of hay <http://agebb.missouri.edu/haylist/> (All prices f.o.b. and per ton unless specified and on most recent reported sales).
 Supreme quality Alfalfa (RFV <185) 185.00-225.00 small squares 7.00-9.00 per bale
 Premium quality Alfalfa (RFV 170-180) 170.00-200.00
 Good quality Alfalfa (RFV 150-170) 120.00-160.00 small squares 5.00-7.00 per bale
 Fair quality Alfalfa (RFV 130-150) 100.00-125.00
 Good quality Mixed Grass hay 80.00-120.00
 Small squares 6.00-8.00 per bale (some alfalfa/grass mix)
 Fair to Good quality Mixed Grass hay 60.00-80.00 small squares 3.00-6.00 per bale
 Fair quality Mixed Grass hay 35.00-50.00 per large round bale
 25.00-40.00 per 4x5 round bale
 Good quality Bromegrass 80.00-120.00
 Fair to Good quality Bromegrass 50.00-80.00
 Wheat hay 40.00-55.00 per large round bale
 Wheat straw 3.00-6.00 per small square bale

Table 1: Alfalfa guidelines (for domestic livestock use and not more than 10% grass)

Quality	ADF	NDF	*RFV	**TDN-100%	**TDN-90%	CP
Supreme	<27	<34	>185	>62	>55.9	>22
Premium	27-29	34-36	170-185	60.5-62	54.5-55.9	20-22
Good	29-32	36-40	150-170	58-60	52.5-54.5	18-20
Fair	32-35	40-44	130-150	56-58	50.5-52.5	16-18
Utility	>35	>44	<130	<56	<50.5	<16

*RFV calculated using the Wis/Minn formula.
 **TDN calculated using the western formula.
 Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100 % dry matter (TDN showing both 100% & 90%). Guidelines are to assist with visual appearance and intent of sale (usage).

Table 2: Grass Hay guidelines

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Export demand continues to weigh on crops futures

Over the past week (as of last Friday) we have seen an easing of trade tensions between the United States and China. While tariffs remain in place between the two countries, both sides have agreed to no new tariffs at this time.

China has even stepped up and bought U.S. soybeans with existing tariffs in place. This has generated ideas that we could see a positive outcome when the two countries sit down next month to work on a full resolution.

The real winner in a trade resolution with China may be the pork industry. China has proven several times in recent weeks that it can source protein products from several suppliers in the global market. This is not the case with pork, as the U.S. is one of the only suppliers with adequate reserves for export.

If China's pork supplies are dropping as fast as thought, the country may wish to make purchases ahead of its

fall and winter holidays rather than cut into government stocks.

Chinese corn reserves are starting to gain market attention. Chinese officials have announced they will not be expanding ethanol manufacturing this year, in part from low corn reserves.

At the end of the 2017 market year China had a reported 8 billion bushels of corn in reserve.

Since then, this has shrunk to roughly 2.2 billion. While this is enough corn to satisfy current needs, it will limit any expansion to processing.

More concerns are being voiced over the state of the rural U.S. economy. Many farmers did not get 100 percent of their acres planted across the Corn Belt this year, which is greatly impacting their cash flows. Some of these farmers may not see revenue for another year.

Even with government payments, this does not cover the ongoing expenses that continue to roll in. Some producers are considering the planting

of alternative crops, mainly winter wheat, to try to generate incomes sooner than normal next year because of this.

These fears are being confirmed by farm debt figures. According to USDA economists, U.S. farm debt with hit \$415.7 billion this year. This is the highest level since 1982. The high figure is a result of real estate debt outpacing asset growth, and compounds concerns over low commodity values.

Net farm income for the year is expected to increase from earlier estimates, though, as farmers start to receive Market Facilitation Payments.

Farmer selling across the United States has lightened up considerably in recent weeks. Many farmers claim to have all the old-crop inventory of both corn and soybeans marketed that they currently wish. This is even in the regions where crops look good, as producers feel if they hold on they will be rewarded once harvest begins, since they do not feel yields will be as high as currently expected.

While this has caused basis values to firm, a reduction to demand has limited their appreciation.

While the U.S. has had good new-crop export numbers in recent weeks, trade is questioning how long they will last. China has made it quite clear it wishes to source as many soybeans as possible from Brazil for the next marketing year. China reportedly has 50 percent of needs for October already covered.

Given the decline in Chinese soybean imports on a whole, this may leave little business for the U.S. Instead we may be used to fill holes in Brazilian sales, and need to find more nontraditional buyers to cover projected demand.

Export demand on a whole is a factor that continues to weigh on corn and

soybean futures. To date, U.S. corn sales total 283 million bushels for the 2019/20 marketing year. This compares to 597 million sold a year ago, and even that pace was concerning at the time.

Soybean sales currently total 349 million bushels, also behind the 623 million of sales from last year. Wheat bookings are more positive, as sales are 83 million bushels ahead of last year, at 441 million.

The Brazilian government has announced that soybean planting in the country will expand 1.1 percent this year. This is the slowest growth rate to soybean production in Brazil over the past 13 years.

Brazil will still seed an expected 90.7 million acres of soybeans, and could even produce a larger crop than in recent years. Analysts in Brazil still expect to see a 7 million metric-ton larger soybean crop than this year.

Argentine officials have also updated their acreage estimates ahead of the upcoming planting season. It is believed that farmers will shift planting toward soybeans this year rather than corn. This is mainly from an economic stance, as the cost of production for soybeans is just 30 percent of that for corn. The instability of Argentina's government is also a factor in the rise in soybean production, as the crop carries a higher value in the global market.

Karl Setzer is Commodity Market Analyst for AgriVisor. His market commentary can be found on Twitter via @ksetzergrains

The opinions and views in this commentary are solely those of Karl Setzer. Data used for this commentary obtained from various sources are believed to be accurate.



MARKET ANALYSIS
By Karl Setzer

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Estimated Daily Livestock Slaughter Under Federal Inspection

Tuesday, September 24, 2019

	CATTLE	CALVES	HOGS	SHEEP
FTuesday 09/24/2019 (est)	117,000	2,000	489,000	8,000
Week ago (est)	118,000	2,000	488,000	8,000
Year ago (act)	119,000	2,000	470,000	8,000
Week to date (est)	233,000	4,000	932,000	17,000
Same Period Last Week (est)	235,000	4,000	975,000	17,000
Same Period Last Year (act)	237,000	4,000	939,000	16,000
Previous Day Estimated				
Monday	Steer and Heifer 93,000	Cow and Bull 23,000		

Revised Monday Hog Slaughter..443,000

Source: USDA Livestock, Poultry, and Grain Market News Division, St. Joseph, MO
816-676-7000 E-mail: stjoe.lpgmn@ams.usda.gov
www.ams.usda.gov/mnreports/SJ_LS710.txt
www.ams.usda.gov/market-news/livestock-poultry-grain

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AG FUTURES

For Week Ending September 20, 2019

	Delivery Month	Friday's Close	Change		Delivery Month	Friday's Close	Change
Soybeans	Nov 19	\$ 8.82 $\frac{3}{4}$	- \$ 0.16	Soybean Oil	Oct 19	\$ 29.28	- \$ 0.01
	Jan 20	\$ 8.96 $\frac{1}{2}$	- \$ 0.15 $\frac{3}{4}$		Dec 19	\$ 29.40	- \$ 0.03
	Mar 20	\$ 9.08 $\frac{3}{4}$	- \$ 0.15 $\frac{1}{4}$		Jan 20	\$ 29.64	\$ 0.00
	May 20	\$ 9.19 $\frac{1}{4}$	- \$ 0.15 $\frac{1}{2}$		Mar 20	\$ 29.93	+ \$ 0.01
	July 20	\$ 9.28 $\frac{3}{4}$	- \$ 0.14 $\frac{1}{4}$		May 20	\$ 30.23	\$ 0.00
	Aug 20	\$ 9.32 $\frac{1}{2}$	- \$ 0.14 $\frac{1}{2}$		Soybean Meal	Oct 19	\$ 291.10
Wheat	Dec 19	\$ 4.84 $\frac{1}{4}$	+ \$ 0.00 $\frac{3}{4}$	Dec 19		\$ 295.00	- \$ 6.50
	Mar 20	\$ 4.91	+ \$ 0.02 $\frac{1}{2}$	Jan 20		\$ 296.70	- \$ 6.60
	May 20	\$ 4.95 $\frac{3}{4}$	+ \$ 0.01 $\frac{3}{4}$	Mar 20		\$ 299.90	- \$ 6.60
	July 20	\$ 4.99 $\frac{3}{4}$	+ \$ 0.02 $\frac{1}{4}$	May 20		\$ 304.00	- \$ 6.60
	Sep 20	\$ 5.07 $\frac{1}{4}$	+ \$ 0.02 $\frac{3}{4}$	Cattle	Oct 19	\$ 99.35	+ \$ 1.28
Corn	Dec 19	\$ 3.70 $\frac{3}{4}$	+ \$ 0.02		Dec 19	\$ 105.15	+ \$ 0.78
	Mar 20	\$ 3.81 $\frac{3}{4}$	+ \$ 0.00 $\frac{1}{4}$		Feb 20	\$ 112.07	+ \$ 0.97
	May 20	\$ 3.89 $\frac{1}{2}$	- \$ 0.01		Apr 20	\$ 115.62	+ \$ 0.57
	July 20	\$ 3.95 $\frac{1}{4}$	- \$ 0.01 $\frac{3}{4}$		Jun 20	\$ 108.42	+ \$ 0.47
	Sep 20	\$ 3.96 $\frac{3}{4}$	- \$ 0.04	Aug 20	\$ 106.60	+ \$ 0.35	
Dec 20	\$ 4.02	- \$ 0.04 $\frac{3}{4}$	Hogs	Oct 19	\$ 60.35	- \$ 6.12	
Oats	Dec 19	\$ 2.75 $\frac{3}{4}$		- \$ 0.04 $\frac{3}{4}$	Dec 19	\$ 66.25	- \$ 2.45
	Mar 20	\$ 2.80 $\frac{3}{4}$		+ \$ 0.00 $\frac{1}{2}$	Feb 20	\$ 73.90	- \$ 1.20
	May 20	\$ 2.80		+ \$ 0.01 $\frac{3}{4}$	Apr 20	\$ 80.70	- \$ 0.47
	July 20	\$ 2.80 $\frac{1}{2}$		+ \$ 0.02 $\frac{1}{2}$	May 20	\$ 87.45	+ \$ 1.33
				Jun 20	\$ 91.70	+ \$ 0.58	
			Dow (Cash)		\$26,935.07	+ \$284.45	

Ag Futures sponsored by Ag Futures taken from CME Group/Chicago Board of Trade & Dow Jones Industrial Average <http://www.cmegroup.com>

One big, pesky weed ...

than one million acres in Georgia. It has reduced yields by up to 75 percent in some fields where it has been found.

So what's farmer to do? For starters, Loux and others advice planting a cereal rye cover crop. The rye can provide a mulch that will suppress Palmer amaranth emergence. Farmers are encouraged to hire hand weeding crews to remove the weed, noting that it's important that it should be pulled and taken out of the field and composted or burned as plants that are laid on the soil in the field will re-root and continue to grow and produce viable seed.

Other ways to rid the field of Palmer amaranth include using a deep tillage including the moldboard plow. By using deep tillage, the Palmer amaranth seed will fall below its preferred emergence depth.

Producers are also reminded to check ditches and field borders. The fear is the weed can spread into a field through pollen and seed.

Experts who deal with this weed say that now is the time to combat it, even through harvest.

"Preventing new infestations of Palmer amaranth should be of high priority for Ohio growers," Loux said. "Palmer amaranth can take over a field faster than any other annual weed. Taking the time to find and remove any Palmer amaranth plants from fields in late-season before they produce seed will go a long way toward maintaining the profitability of Ohio farm operations. The dead giveaway for Palmer amaranth as we move into late summer is the long seedhead, and those

(continued from page 7)

on the female seed-bearing plants are extremely rough to the touch."

Loux offers four tips in dealing with the weed at this time of year. First, he advises taking some time to scout fields, even if from the road or field edge with a pair of binoculars.

"This would be a good time to have a friend with a drone that provides a real-time video," Loux said.

"Scouting from the road is applicable mostly to soybean fields, since corn will often hide weed infestations."

Next walk into the field to check any weeds that could be Palmer amaranth or are otherwise mysterious. Send photos of the plant to someone who can help identify them if need be.

Third, where Palmer amaranth is confirmed, check to see whether the plants have mature seed by shaking parts of the seedhead into your hand or other surface that will provide contrast. Mature seed will be small and very dark. Plants without mature seed should be cut off just below the soil surface.

Finally, he says, if the Palmer amaranth population is too dense to remove from the field, harvesting through patches or infested fields will result in further spread throughout the field. If this is the case it is recommended to not harvest areas of the field infested with Palmer amaranth or harvest the infested fields after all other fields have been harvested, and cleaning the combine thoroughly before further use.

For more information about how to tackle Palmer amaranth or other pesky weeds go to www.u.osu.edu/osuweeds

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demand for whey which has caused the block/barrel spread to widen to historical highs." Class III futures had approached \$20 per cwt. in the October contract, the MW stated, however "While deferred contracts are not trading nearly as high, dairy margins through the first half of 2020 are close to the 90th percentile of historical profitability within the last decade."

The MW warned; "There is concern that milk production will ramp up through next spring's flush given the stronger indicated margins, and that

(continued from page 6)

is part of the reason for the significant discount in forward contracts relative to spot values."

The USDA extended the deadline to Sept. 27 for dairy producers to enroll in the Dairy Margin Coverage program for 2019. The deadline was Sept. 20.

The views and opinions expressed in this column are those of the author and not necessarily those of Farm World. Readers with questions of comments for Lee Mielke may write to him in care of this publication.



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 2010 CIH MAGNUM 335, PS, MFD, 1200 HRS
 2012 CIH MAGNUM 290, PS, MFD, GUIDANCE, 1480 HRS
 2015 CIH MAGNUM 240, CVT, SUSP, 1700 HRS
 2014 CIH MAGNUM 220, PS, MFD, 1800 HRS
 1991 CIH 7120, PS, TWD, 3900 HRS
 2016 CIH FARMALL 70A, OS, MFD, LDR, 200 HRS
 2016 FARMALL 70A, OS, TWD, 353 HRS
 2015 JD 8320R, PS ILS, 1500 HRS
 2013 JD 8235R, PS, MFD, 3400 HRS
 1994 JD 8570, QR, 5400 HRS
 2013 JD 7230R, PQ, MFD, 2000 HRS
 2013 JD 7215R, PQ, MFD, 2450 HRS
 2010 JD 6430 PREM, IVT, TLS, LDR, 2000 HRS
 2004 JD 6420, PQ, MFD, 5300 HRS
 1989 JD 4555, PS, TWD, 3790 HRS
 1976 JD 4430, QR, TWD, LDR, 5650 HRS
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 1998 JD 918F GRAIN HEAD, CM, SINGLE POINT
 2015 JD 612C STALKMASTER, KR, HD, RS, HH
 2012 JD 608C, KR, HD, HH
 2002 JD 693, CM, KR, HD
 1996 JD 693, LL, RR
 2003 CIH 2206, HD, KR
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Iowa farmer tells GPS Caucus precision ag a farm necessity

By DOUG SCHMITZ
Iowa Correspondent

WASHINGTON, D.C. — During a briefing with the U.S. Senate Global Positioning System (GPS) Caucus on Capitol Hill Sept. 12, southwestern Iowa farmer Jeff Jorgenson told legislators how much precision-based technology in America agriculture is “important” and “a necessity.”

Hosted by Sen. Joni Ernst (R-Iowa), who co-chairs the caucus, the briefing offered a platform for sharing practical, real-world insights into the role of precision agriculture in feeding the world. Jorgenson, a Sidney farmer and president-elect of the Iowa Soybean Assoc. (ISA), was a “first adopter” of precision and GPS technologies, which he called a game-changer.

“Twenty years from now, the most important tool for putting food on your table won’t be a tractor, planter, or even a combine,” he testified. “It will be a satellite and a piece of software.”

Today, he said, drones and satellites are giving farmers an unprecedented overview of crop health, while ground-level sensors provide real-time data on soil and climate. “On the farm, more information – more accurate information – leads to better decisions, which help us grow more from less. GPS and precision technologies deliver that critical information in real time.”

Jorgenson and ISA Chief Operations Officer Karey Claghorn visited with Ernst and her team to help highlight the importance of technology in agriculture and rural America. He said the need for such sophisticated tools and technology is growing – especially

given today’s unpredictable weather and market volatility.

In fact, Jorgenson knows firsthand since he raises soybeans, corn, and cattle with his family adjacent the Missouri River, which, with its persistent flooding, creates challenges for farmers who need to increase production – and their bottom lines.

“It takes the right tools to get the job done, and done right,” he said. “Farming is highly land- and labor-intensive. Farmers like myself are driven to use precision tools to increase efficiency, boost production, and to not only manage costs, but also nutrients. My livelihood depends on it.”

He said the future of precision agriculture is moving toward cloud-based information sharing, which allows farmers to work together to identify growing-condition patterns in their area and solve community-wide farming challenges more effectively.

“This underscores the importance of GPS and other precision technologies for the future of agriculture and feeding a growing population,” Jorgenson explained. “GPS and precision technologies are the key to growing better, high-yielding crops, all while taking better care of the land. Technology on the farm isn’t just an advantage anymore; it’s a necessity.”

During the briefing that same day, Ernst and David Grossman, GPS Innovation Alliance (GPSIA) executive director, met with farm industry associations to further discuss precision agriculture.

According to *Via Satellite* magazine, GPSIA and its member organizations, including John Deere, have been lobbying in Washington, D.C., “to give U.S. farmers the advanced technology that would help increase crop yields, lower operational costs, protect animal health, and promote environmental sustainability.”

“Our concern is not just the integrity of GPS spectrum, but also the integrity of the physical satellite system,” Grossman said in the briefing. “We are also working with regulators to improve infrastructure for broadband and close the digital divide.”



AT A BRIEFING with the U.S. Senate GPS Caucus on Capitol Hill Sept. 12, Iowa farmer Jeff Jorgenson tells members how important and necessary precision-based technology

(Courtesy of Iowa Soybean Assoc.)

Brendan Carr, Federal Communications Commission member, told attendees that smart agriculture tools help American farmers make precise, “inch-by-inch” adjustments.

“Our job is to make your jobs a little easier,” he noted. “Today, we can extract 15 to 20 times the amount of data from a single U.S. farm plot than we’ve been able to in the past and store it in the Library of Congress. This enables us to plan for the future and to ensure that American farms remain the most sustainable in the world.”

Jorgenson, who manages one of the largest soybean plots in southwestern Iowa, said he’s been using precision agriculture tools since the mid-2000s.

“We’ve dramatically increased our crop yields in recent years, and that’s mostly because of the data we have at our disposal. This technology is moving agriculture – literally. GPS-guided tractors alone are saving billions in seed by preventing overlap and waste.

“The next big thing that we see is incorporating infrared, thermal imagery, to layer data tools so that we can plan for planting next year,” he added.

John Rauber, director of Deere’s Washington affairs in Potomac, Md., who also spoke at the briefing, said “the world’s population will go from 7.5 to 9 billion people in 30 years.”

“Because of this, American farmers are tasked to increase food production by 80 percent to 100 percent over a very short period of time, and for purposes of sustainability, they have to use less seed, less land, and less water,” he said. “The only way we’ll be able to meet that is through increased technology.”

Scientists ... (continued from page 2)

dramatically more energy efficient than what was available five to 10 years ago; and producers can now better use “off grid” energy sources (i.e., wind, solar or methane capture),” he said.

“I think we also have a much better understanding of the underlying biological mechanisms of heat stress that reduce breeding herd as well as market hog efficiencies.”

“This is key in developing mitigation steps going forward,” he said. “Unfortunately, this area was underfunded and we could not garner a critical mass of funding to effectively move the needle during the five-year span (2012-17) of this effort.”

Ross said gene editing of livestock to improve their heat resilience is also an option scientists are investigating – although it’s not currently approved for human consumption.

“Engineers are also investigating improved facility designs that could mitigate the effects of heat stress and seasonal infertility.”



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(SZ) '91 JD 9500, Stock #101011, 2551/1787 hrs, 2WD, singles, spreader, 1 owner, local trade\$49,500



(FL) '06 JD 9660STS, Stock #101342, 3818/2620 hrs, 2WD, duals, chopper, lateral tilt\$67,900



(FR) '06 JD 9860STS, Stock #101016, 2671/1891 hrs, 2WD, floats, chopper, lateral tilt\$89,900



(FL) '14 JD S660, Stock #96838, 716/530 hrs, 2WD, floats, dual fuel machine, 3 speed electric shift transmission ... \$229,500



(LP) '15 JD S670, Stock #99607, 927/587 hrs, 2WD, floats, chopper, lateral tilt, HD hi torque variable speed feederhouse.... \$254,500



(FR) '16 JD S680, Stock #100580, 757/594 hrs, PRWD, floats, powercast tailboard, power folding bin extension, LED lights . . \$349,900



(SZ) '18 JD S780, Stock #101254, 216/165 hrs, PRWD, floats, powercast tailboard, premium leather..... \$428,000



(SZ) '05 Brent 880, Stock #93255, hyd flipper on unload auger, 20 in auger, 30.5x30 tractor type tires \$23,900



(LP) '11 UM 9250, Stock #93342, scales, roll tarp, 17 in corner auger, 900/60x32 R1 tires.....\$37,500



(LP) '10 JD 606C, Stock #98656, 30 in spacing \$29,500



(SZ) '08 JD 608C, Stock #101618, 30 in spacing, row sense, hydraulic deck plates, opposing knife rolls, header height. . . . \$23,900



(FL) '11 JD 612C STALKMASTER, Stock #101023, 30 in spacing.....\$42,900



(SZ) '04 JD 625F, Stock #100291, header height & contour sensors, splined backshafts/universal, reel position resume \$18,900



(SZ) '16 MacDon FD75-35, Stock #99412, 35 ft, been over about 1400 acres, hookup for a JD 60 Series combine . \$65,000



(SZ) '13 MacDon FD75-S, Stock #100770, 40 ft, S-Series combine mount \$52,500

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NEWS FROM AROUND THE FarmWorld

Iowa scientists: 'Sobering extreme heat'

DES MOINES, Iowa (AP) — More than 200 scientists from 38 Iowa colleges and universities have signed on to a climate change statement that warns of "sobering extreme heat projections" for the Midwest that will put people, livestock, and pets at risk.

The statement said the World Meteorological Assoc. identified July as the hottest month in more than 140 years of recordkeeping. The scientists said the atmosphere and Earth's surface are warming at an unprecedented rate, and by mid-century temperatures in Iowa will exceed 90 degrees for 67 days per year, compared to the average of 23 days in recent decades.

Peter Thorne, director of the University of Iowa Environmental Health Sciences Research Center, said adaptations will include expanded disaster preparedness, increased energy use, and curtailment of outdoor work and recreation during times of extreme heat.

The University of Iowa Center for Global and Regional Environmental Research has released annual climate statements since 2011. They are vetted by Iowa's top experts and are intended to place climate change research into an Iowa-specific context and encourage preparedness

Japan cautious on prospects for trade deal

TOKYO (AP) — Officials in Japan appear wary over the prospects for a trade deal with the United States after President Donald Trump said he was prepared to sign a pact soon.

Japan's chief government spokesman, Yoshihide Suga, said last week the two sides are still finalizing details after reaching a basic agreement in late August on trade in farm products, digital trade, and other industries. Trump's notice to Congress, released by the White House, did not mention tariffs on autos and parts, long a sticking point between the two countries.

Suga said Trump and Prime Minister Shinzo Abe are considering signing a deal in late September when they attend the U.N. General Assembly in New York. He and other officials said a formal agreement has not yet been reached.

Jurors convict Iowa farmer in murder

DUBUQUE, Iowa (AP) — A jury Monday convicted

an eastern Iowa hog farmer of using a corn rake to kill his wife, agreeing with prosecutors who argued he was enraged that she was having an affair.

Jurors found Todd M. Mullis, 43, guilty of first-degree murder in the death of Amy Mullis, according to the *Telegraph Herald*. She was killed Nov. 10, 2018, on the couple's farm about 40 miles west of Dubuque.

Prosecutors said Mullis had wanted to kill his wife for years and was irate that she was having an affair and fearful he'd lose their farm if she divorced him. During the trial, Jerry Frasher testified he was having an affair with Amy Mullis, 39, and that she feared her husband. The hog farm field manager said she had told him she was not happy and, one time, told Frasher of her husband "if he ever found out (about the affair) she would disappear."

Mullis' attorney suggested that Amy Mullis startled someone in the farm's shed where she was found, prompting that person to impale her in the back with a corn rake while Todd Mullis was working in a nearby barn. A forensic pathologist who performed an autopsy testified she was impaled by a corn rake at least twice and possibly three times.

The first-degree murder conviction carries a mandatory sentence of life in prison without parole.

Thousands of hogs killed in barn fire

NEW TRIPOLI, Pa. (AP) — Thousands of hogs have died in a fire that destroyed two barns on a Pennsylvania farm.

Firefighters were called to the farm in Lynn Township, outside Allentown, before 6 a.m. Saturday. Lynnport Community Fire Company Chief Clark Matz said the barns were engulfed when firefighters got there. He told *The (Allentown) Morning Call* "there was nothing left to save."

Crews drew water from a nearby pond to fight the fire. Matz said as many as 4,000 hogs were killed.

South Korea confirms swine fever cases

SEOUL (AP) — South Korea's African swine fever crisis intensified Tuesday with lab tests confirming the fourth case in a week from a farm near its border with North Korea. The discovery of still more cases has raised fears that officials are fighting a losing

battle to halt the spread of the disease that wiped out pig populations across Asia.

Hours after announcing the newest infection in Paju, the South Korean government imposed a 48-hour standstill on all pig farms, slaughterhouses, and feed factories in the country as of noon Tuesday, with Prime Minister Lee Nak-yeon calling for "stern, fast, and preemptive response measures that would feel even excessive."

More than 15,000 pigs were culled after the country's first two outbreaks were confirmed last week at a different farm in Paju and a farm in Yeoncheon, another border town, but officials have yet to identify the infection route. The disease may have crossed from North Korea, which reported an outbreak near its border with China in late May.

In a closed-door briefing to lawmakers, South Korean National Intelligence Service Director Suh Hoon said North Korea had new cases after July despite culling pigs, disinfecting farms, and restricting the distribution of pork products, according to lawmakers who attended the session.

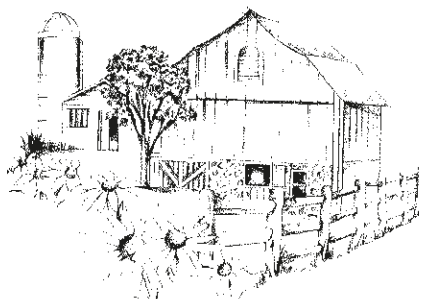
In South Korea, where diets rely heavily on pork, there is concern the outbreak could spread and hurt an industry with 6,300 farms raising more than 11 million pigs. The disease decimated pig herds in China and other Asian countries before reaching the Koreans.

Rare, deadly virus in Pennsylvania counties

HARRISBURG, Pa. (AP) — A rare, potentially deadly virus transmitted by mosquitoes has been confirmed in three Pennsylvania counties.

The Pennsylvania departments of health and agriculture issued a warning Saturday after confirming eastern equine encephalitis in Erie, Carbon, and Monroe counties. The virus was found in pheasants, horses, and a wild turkey. The virus is carried by birds. Mosquitoes can transmit it to humans, horses, and other birds.

Health officials said the infection is fatal in 30 percent of human cases. They're urging people to avoid mosquito bites when outdoors by wearing mosquito repellent and covering exposed skin with lightweight clothing. Homeowners should also make sure window screens are in good condition and eliminate standing water around their properties.



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BUSINESS BRIEFS

Gramco recalls hog feed because of vomitoxin levels

SPRINGVILLE, N.Y. — Gramco, Inc. of Springville is recalling bags of Hog Grower Pellets because it contains levels of vomitoxin (a mycotoxin) that could be harmful to swine growth and potentially fatal to young swine.

This product has a lot number of 47284 and it was produced on July 8, 2019. The U.S. Food and Drug Administration (FDA) tested a product sample and has determined the levels of vomitoxin in this lot exceeds its guidelines for swine feed.

This product was sold to a retailer in the Bradford, Pa., area and other than that, it was sold to end users who either had it delivered to their farms for use or picked it up at the plant for use at home. At this point, the company has not had any complaints of animal refusal for intake, nor complaints of animal health issues or worse.

The product in question all went into 50-pound bags that would have the Gramco, Inc. logo on them. Vomitoxin (*deoxynivalenol*) is known to cause vomiting (emesis), ulcer in the mouth, feed refusal, and decreased body weight gain in swine of all age classes.

Grants available to grow

Indiana's livestock industry

INDIANAPOLIS, Ind. — The Indiana State Department of Agriculture is accepting applications to grow the state's livestock industry; the deadline to apply is Sept. 30.

As part of a matching grant, the funding is available to nonprofit organizations, commissions, and associations in the following livestock species: cattle, swine, sheep, equine, goats, poultry, camelids, ostriches, cervidae, bison, aquaculture, and rabbits.

The competitive grants can be used for a variety of projects, such as promoting a livestock show, exposition, and convention, or conducting a new event. They can also be used to support new or existing markets, in an effort to grow Indiana's production, processing, and distribution capacity.

Proposals must be submitted electronically. If selected, the program will reimburse up to 50 percent of the amount spent on the project. To apply, visit www.in.gov/isda/2474.htm — award winners will be announced in December.

Cutting-edge startups sought for Row Crop Challenge

MEMPHIS, Tenn. — Early-stage ag-

tech startups focusing on row crop innovations can now apply for a chance to pitch their idea before a national audience of leading farmers, retailers, farm advisors, and agronomists at *Farm Journal's* 2019 AgTech Expo and compete for \$200,000 worth of development services and investment from AgLaunch and partners.

The 10 startups accepted for the Row Crop Challenge will receive one week of startup support services to refine its value proposition and prepare to pitch to row crop farmers and agricultural investors, as well as other valuable exposure.

Up to six startups pitching at AgTech Expo will be offered a spot to participate in AgLaunch365, which will start in January 2020 and includes \$75,000 venture capital investment and startup support services valued at more than \$125,000.

To be eligible, startups must be addressing an identified problem in row crop agriculture, be seeking to participate in AgLaunch365 programming 2020, currently have or are willing to have a farmer engaged directly in the business, and be located or willing to locate in a rural area in the United States.

The application deadline is Oct.

1. Accepted teams will be notified by Oct. 15, and will be expected to spend Nov. 11-15 in Memphis to prepare for AgTech Expo, and participate in stage and demo-floor activities at AgTech Expo on Dec. 16-17 in Indianapolis.

For questions, email Schuyler Dalton at sdalton@aglaunch.com and find the application at <https://docs.google.com/forms/d/e/1FAIpQLSjGDowS4V1jVM9dg5Pm2LToOPw1sKrL8RzqlS42UGWxc70s4Q/viewform>

Tennessee testing changes scheduled on BVD-infected cattle

NASHVILLE, Tenn. — In an effort to provide more efficient results for Tennessee's cattle producers and veterinarians, the Kord Animal Health Diagnostic Lab will change sample requirements for testing cattle persistently infected with bovine viral diarrhea (BVD-PI).

Beginning Oct. 14, the Kord Lab will require ear notch samples for BVD-PI testing. Serum samples for BVD-PI will no longer be accepted. From now until Oct. 14, non-negative BVD-PI serum results will be reported as inconclusive and an ear notch will be required to confirm the diagnosis.

All other commonly requested herd testing will still be performed on serum samples. For instructions on collection and submission of ear notch samples as well as materials and equipment needed, visit the Kord Lab guide at www.tn.gov/content/dam/tn/agriculture/documents/animalhealth/KAHDL.Lab.Guide.pdf

If you have any questions about how to collect and submit samples, contact the Tennessee Department of Agriculture's immunology section at 615-837-5221.

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Buildings	50	Grinder-Mixers	550	Real Estate Wanted	150
Building Materials	200	Harvest Equipment	310	Recreational Vehicles	70
Bush Hogs	101	Hay & Straw	340	Seed Handling Equip.	370
Cars	60	Hay Equipment	530	Services	180
Cattle	210	Help Wanted	30	Sheep	260
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If you are contacted by a company called National Marketing or Ultimate Market Place from Omaha, Nebraska and others, please be careful. Farm World has been alerted about representatives of Boese Media Marketing, Heartland Media Group LLC, National Marketing & Ultimate Market Place, Sgt. Christopher (TX), Ryan (IA) anyone requesting transaction with PAYPAL account and others claiming that they will work for a brokerage or leasing company that matches buyers and sellers together and offers financing to buyers. For \$99-\$400 dollars they claim they have already brokered a buyer for the equipment, and want a credit card over the phone to begin the process. As time goes on, nothing happens, phone calls are not returned, and the equipment is not sold. We have heard from over 400 people, and have filed a complaint with both the Secretary of State and the Attorney General in Nebraska. If you have any experience with this company, please contact Consumer Protection Mediation Center 800-727-6432. Also we would like to hear from you. Please call 1-800-876-5133 x 302 and ask for Gary.

A scammer will often try to pressure you into making a quick decision and to pay up front.
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1959 F500, restored, 12' flatbed w/hoist, one of a kind, \$3500. 317-462-4989 Greenfield, IN.

1994 Int. 2574 quad axle 20' frame, Cummins N14, great wet kit on trans. \$4500. 317-345-5529 Atlanta, IN.

1976 Chevy C60 grain truck, 16' bed, new eng., radiator, rear tires, \$5000. 765-623-1370 Anderson, IN.

1995 IH 9100 tandem axle, day cab tractor. Cummins M11 330HP, 10 spd, 630,000 miles, aluminum wheels., good maintenance, used daily when replaced. \$7000 OBO. 765-717-9111 Muncie, IN.

1976 Chevy C65, tandem, 18' bed, runs gd., gd. tires, \$1500. 574-870-7324 Walton, IN.

1998 Int. 4700 service truck, generator, welder, cut torch & crane, everything works, like new. Reason for selling: moving to IL. \$14,750. 765-448-5591 New Palestine, IN.

1976 GMC 6500 Top Kick, tandem, 427, 11x22.5, 18' bed w/ twin hoist, roll tarp, \$4850. 812-599-2520 Cross Plains, IN.

1998 Int. 4700 service truck, generator, welder, cut torch & crane, everything works, like new. Reason for selling: moving to IL. \$14,750. 765-448-5591 New Palestine, IN.

1978 F600 grain truck, 14' bed, avg. cond., \$1800. 812-852-2210 aft. 7 p.m. Osgood, IN.

1998 Volvo, Cummins motor, 10 spd., \$8000. 765-748-3384 Gaston, IN.

1982 model R Mack, w/42' Stoughton hopper btm. trailer, \$6500. 765-339-7759 New Richmond, IN.

1999 Int. 8100 tandem, 20' grain bed, tarp, C10 CAT, 270,000 mi., \$25,000. 812-344-8296 Edinburgh, IN.

1989 Ford L9000, single axle L10 Cummins, 9 sp., \$6000. 614-554-7485 Milford Center, OH.

1IH 1988 2674 dump truck, tri-axle, 17' alum. bed, low miles, \$20,000. 317-695-1236, 317-439-2871 McCordsville, IN.

1990 Ford 8000, tandem dump, Cummins, auto., runs gd., come look, only \$7250, gd. buy. 517-262-1759 Horton, MI.

2000 IH 9200 day cab, 435HP, N14, 10 spd., air ride, wet kit, gd. cond., \$9500; 1989 auto/car tri-axle, 400 Cummins, 10 spd., 20' alum. bed, Shur-Lok roll tarp, gd. cond., asking \$8500. 812-756-2022 Osgood, IN.

1992 IH 9400 tandem, twin screw, 10 sp., Cummins eng., 18' Scott bed, very gd. cond., \$19,500. 574-709-9920 Logansport, IN.

2001 IH 9100i semi, N14, Jakes, 879,000 mi., 10 sp., wet kit; TrailStar 28' dump, air ride, drive cyl., 2000 model, \$28,500 obo. 502-680-0315 Lawrenceburg, KY.

1993 377 Peterbilt 200,00 actual mi., 425 CAT eng., very nice truck. 812-525-8377 Norman, IN.

1999 Peterbilt 379, Day Cab, 3406 Engine & 13 Speed Trans., Diff. Lock, Air Ride, \$25,500 (80-14) Wilkinson, IN 317-432-1123

1993 Peterbilt 378, 36' bunk, 3406B CAT motor, exc. cond., \$30,000. 937-308-1117 Union City, OH.

1999 Peterbilt 379, Day Cab, 3406 Engine & 13 Speed Trans., Diff. Lock, Air Ride, \$25,500 (80-14) Wilkinson, IN 317-432-1123

1994 Ford 700 gas, 44,000 mi., \$9500 obo. 765-525-4895 St. Paul, IN.

1994 Ford L8000 single axle semi, 8.3 Cummins, Allison auto., air ride, 179,000 mi., \$5800. 765-776-6210 Bunker Hill, IN.

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2012 Int. Paystar semi tractor 218,000 mi., 44,000 lb. rears, dbl. locking rears, new tires, 18 sp. trans., 475 HP, enclosed rear frame w/Reese hitch and light hookup, \$39,500. 812-276-8406 Williams, IN.

2003 IHC 4300 tandem dump, 466 DTA, 250HP, new tarp, hitch, road ready, come see. 517-262-1759 Horton, MI.

2012 Kenworth T800 Cummins, ISX15, 450HP, Eaton auto. shift, mileage 607,445, rear end 3.42, wet kit, \$44,000. 317-402-2859 Shelbyville, IN.

2003 International 9200 I Eagle, 450 Cummins, 10 speed, 1995 Peterbilt 379, 3406 CAT, 9 speed. Call 765-376-3416 Crawfordsville, IN.

F250 2008 Super Duty Lariat, leather interior, 58k mi., like new cond., \$27,500. 937-248-9140 Trotwood, OH.

2004 Freightliner Columbia semi tractor, day cab, C12 CAT eng., 10 spd., 178" WB, 498,000 mi., \$19,000. 765-465-0309 New Castle, IN.

Ford 9000, tandem dump, 15', nice box, 1986, real gd. farm truck, runs gd., only \$10,500. 517-262-1759 Horton, MI.

2006 Peterbilt 379 ext. hood, C15 CAT motor, 10 sp. trans., 10 alum. wheels, lots of new parts, dual exhaust, dual tanks, dual SS, breathers, air slide fifth wheel, \$40,000. 812-350-2613 Franklin, IN.

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Int. 4400, 2007, tandem dump, nice 15' box, 130K mi., tarp, hitch, super nice. Come look. 517-262-1759 Horton, MI.

2007 Int. 8600 single axle, Cummins, 10 sp., air ride, very nice, \$14,500 obo. 765-529-7903 New Castle, IN.

Kenworth T-680, 2015, 300,000 mi., very nice, clean. 217-202-6596 Rantoul, IL.

2007 Pete semi 386, sleeper, pre-admissions, 500HP Cummins, 1.1 million miles, \$10,500. 419-305-3266 Maria Stein, OH.

New Chevy, Dodge & Ford 8' truck beds. 317-512-2129.

2009 Int. Dura Star, Max Force 4400DT, twin screw, auto. trans., air ride susp. cab & seat, 20' Scott alum. bed, Scott hoist, elect. roll tarp, 228K mi. Retired from farming. \$55,000. 815-488-2835 Ladd, IL.

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90 TRAILERS

(3) 2007 East 48x102 alum. flatbed semi trailers, alum. deck, spring ride, closed tandem axles, alum. wheels, fixed bulkheads & winch straps. 765-478-3248 Cambridge City, IN.

1998 40' Wilson Commander hopper btm. trailer, elect. tarp, spring ride, exc. cond. 740-986-5222 or 740-207-1707 Williamsport, OH.

16' Parker gooseneck grain trailer, very gd. cond., \$5500. 740-407-6050 Amanda, OH.

2001 Wilson hopper 38' stainless front, back & corners, 2 rows of 5 lights, new brakes, drums, seals, 24.5 tires, air ride, elect. tarp, tarp 2 yrs. old, \$15,000. 317-997-1180 Greenfield, IN.

1979 Fruehauf 28' tandem axle, dump trailer, gd. cond. Can send pictures. 419-680-5238 Green Springs, OH.

2002 43' Wilson hopper trailer, air ride, all alum. wheels, 11R24.5 tires, gd. brakes & tires, w/strap traps, \$18,000. 260-571-2543 LaFontaine, IN.

1993 Wilson PaceSetter hopper bottom, air ride, stored inside, gd. cond. 517-605-9518 Blissfield, MI.

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2005 41' Wilson hopper trailer, air ride, all alum. wheels, 11R24.5 tires, gd. brakes & tires, w/strap traps, \$19,000. 260-571-2543 LaFontaine, IN.

2013 Timpte hopper trailer, low miles, elect. tarp & traps, air ride, alum. wheels, 40'x66", one owner, \$30,000 firm. 740-404-0574 Delaware, OH.

34' steel hopper btm., gd. shape, \$6000 obo. 765-620-2363 Elwood, IN.

35 ton Nuttall Lo-Boy, w/18' deck. 812-525-8377 Norman, IN.

40' HopMaster steel hopper bottom; Chamberlin 40' alum. hopper bottom, grain trailers, \$3250 ea. 937-215-9925 Springfield, OH.

Dorsey 28' dump trailer, steel frame, very gd. cond. 812-525-8377 Norman, IN.

Livestock and flatbed trailers. Wholesale Trailers 615-714-3894 Lebanon, TN.

New 5x87 w/ramp door, \$1975. New 8.5x16 white w/ramp door \$4495. New 8.5x20 white w/ramp door \$5375. New 6x12 black ramp door \$2750. All are enclosed, also have 6x10 new dump trailer, 7000 GWW, \$3895. 7x12 new dump trailer, 12,000 GWW w/ramps, \$5895. 812-366-3540 Corydon, IN.

Wanted: 30' hopper trailer, must be gd. 317-339-0388 or 317-339-9255 Indianapolis, IN.

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D3 CAT bulldozer, 6 way blade, gd. farm dozer, \$15,000 obo. 937-492-7713 Sidney, OH.

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JD 1010 bulldozer, needs some work, \$1800; JD 350 dozer, parting out. 937-478-3243 Waynesville, OH.

Vermeer V4750 trencher, 47HP, Deutz dsl., 2915 hrs., 4WD, 18" backhoe bucket & outriggers, 64" 6 way backfill blade, 60" digging depth trencher w/8" rock chain, hyd. side shift. 419-305-3938 Rockford, OH.

101 BUSH HOGS

15' Bush Hog batwing, decent shape, \$3250. 812-569-7249 Dillsboro, IN.

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210 CATTLE

(1) purebred angus heifer, \$750; Purebred Charolais heifer, \$650; (2) Holstein heifers, \$375 ea.; (5) bred cows, \$875 ea.; (5) cows w/ calves, \$1000 ea. 765-212-8328 New Castle, IN.

(1) reg. shorthorn plus cow, pasture exposed to bull; (1) reg. shorthorn bull. 937-621-7965 Yorkshire, OH.

(10) Holstein dairy cows, (5) Holstein bred heifers, \$1000 each. 812-528-0738 Pekin, IN.

(100) head Holstein steers, avg. weight 325 lbs., vacc., on full feed. 937-423-7221 Bradford, OH.

(100-120) head Holstein steers, weighing 300 lbs., first week of Oct., other sizes also avail. 419-305-3442

(11) black bred heifers, (3) reg., (8) non-reg., (1) reg. Angus bull, \$18,500 for all. 317-512-1988 Cambridge City, IN.

(14) head Holstein steers, avg. weight 550 lbs., vacc., on full feed. 937-423-7221 Bradford, OH.

(2) Big Angus Hereford cross cows, 3 yrs. old, exposed to bull, \$800 ea. 765-874-1915 Lynn, IN.

(2) Maine cows, I-80, 5 year old, bred to Broker/Keepsake bull. I-80 x Who x Playboy Box bred to Broker/Keepsake bull. Current on everything and blood tested bred, \$4000. 765-620-1206 Frankton, IN.

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(4) Holstein breeder bulls from our (650) cow herd. Herd on D.H.I. test. (2) bulls, 16 mos. old, (2) bulls, 14 mos. old, records 32,131 lbs. mil, 4.2% fat, AI sired. PRICED TO SELL. Will deliver. Mike Heckaman. 574-360-6610 Argos, IN.

(40) Holstein steer calves, 10 wks. old, vacc./dehorned, \$270 ea. 567-279-2591 Geneva, IN.

(40) Holstein heifer calves, 12 wks. old, (40) Holstein steer calves, 12 wks. old. 765-561-0138 Rushville, IN.

(5) reg. Angus cows; (2) reg. Angus heifers, pasture exposed to bull. 937-621-5240 Yorkshire, OH.

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1991 Ag Chem Big A 2800 float-er, Cummins 8.3L Allison trans., 1600 gal., 70', Raven controller, Trimble lightbar, 5125 hrs., farmer owned, runs great, kept inside, full maintenance records. \$19,200. 567-674-4114 Kenton, OH.

96 Hagie 284 60-80, foam markers, new tires, new interior, cold AC, Raven 440 controller, 5 section shut off, \$15,000 obo. 606-748-1438 Flemingsburg, KY.

Blu-Jet Landrunner anhydrous applicator, Raven AccuFlow super cooler, Greenstar rate controller, set up as 11 knife 36", can be made 15 knife 30", comes w/ ground drive pump, new set of knives & other parts. No-till cutters, very gd. cond., \$18,000 obo. 317-512-0441 Franklin, IN.

Chem-Farm sprayer, 500 gal. SS tank, 45' boom, hyd. pump, Hi-niker controls & monitor, foamer, \$3200 obo. 317-512-0441 Franklin, IN.

IH 1986 lime/fert. truck, DT466, 3020 New Leader bed, Outback system, \$9000. 317-695-1236, 317-439-2871 McCordsville, IN.

JD 4710, 90' booms, auto boom leveling, integrated steering, new eng. 1 year ago, tires gd., air ride, 3000 receiver & 2600 screen, very gd. cond. 317-498-3716 Wilkinson, IN.

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390 AUGERS

10x31 Hutchinson auger, exc. cond., 24" GSI dryer, LP, for grain bin, used 4 seasons. 812-486-7279 Montgomery, IN.

10x70 Farm King swing away auger, hyd. drive hopper, \$500. 317-494-1531 Edinburgh, IN.

12", 82" GSI auger, good flighting and agwalker, hopper walker with three remotes, new gear box last year. 765-479-2287

2013 Mayrath 1382, hyd. swing w/straight and optional side drive, exc. cond., \$16,800 firm. Lindsey Farms 812-972-3738 Palmyra, IN.

80-71 swing away Westfield grain auger, avg. cond., \$800. 812-852-2210, call after 7pm, Osgood, IN.

Brandt 1070 XL auger, 10" 70' long, swing away hopper, hyd. cylinder lift, 11 yrs. of use, \$6800. 567-674-4114 Kenton, OH.

Brandt 1515LP belt conveyor w/5HP Baldor motor, exc. shape, \$4500. 937-459-2103 Union City, OH.

Coker 60"x10" w/swing away auger, \$2000. Will text pictures. 317-459-9402 Greenfield, IN.

390 AUGERS

Grain King 10" 60' swing away auger, \$2000. 812-212-0896, 812-212-0898 Batesville, IN..

Mayrath grain auger, 8x34, PTO, w/plastic hopper, like new. 812-623-3571 Sunman, IN.

New Westfield augers: 10"x63' swing away \$9036; 10"x73' swing away, \$9613; 13"x74' swing away, \$15,312; 13"x84' swing away, \$16,808. Other sizes avail. 574-850-6061

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Westfield auger, 10"x81", swing auger on btm. w/screen, \$8500. 440-396-0797 Oberlin, OH.

Westfield 10x31 auger, PTO drive, like new, \$3500. 517-929-3056 Tekonsha, MI.

Westfield 10x61 w/swing away auger, \$2200. 937-265-1048 Springfield, OH.

410 ANTIQUE TRACTORS

1967 AC 170 gas, gd. tires, not running, \$1000. 812-208-2804 Cayuga, IN.

417 AC loader, off of D17, needs 1 hyd. cyl., \$1000. 317-695-3946 Shirley, IN.

AC D17D 1963, eng. and injection overhauled, exc. power train, \$5000. 502-706-1196 Eminence, KY.

Ford Golden Jubilee, new rear tires, solid tractor, \$3500. 812-521-0268 Seymour, IN.

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IH TD-14 Bucyrus dozer blade, hydraulics.; IH 2236 tractor. 217-202-6596 Rantoul, IL.

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1066 hydro, 3900 hrs., 18.4x38, 2nd owner, nice tractor, PTO, 2 hyd. outlets, \$10,000. 217-497-0506 Rossville, IL.

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1983 AC 6080, MFWD, canopy, sharp looking. 231-690-1182 leave message. Ludington, MI.

1988 Case IH 2096 tractor, 75% duals, 5.9 Cummins eng., gd. paint, air & heat. 812-852-4414 or 812-569-7805 Sunman, IN.

1989 JD 4455, 7593 hrs, 15 spd. power shift, (2) remotes, quick hitch, (12) front weights, RW4455P003449. \$40,000. 614-570-8095 Plain City, OH.

1991 JD 8560, 24 spd., 3 pt., 2nd owner, 70% rubber, low hrs. on crate motor, 7050 hrs., very sharp, asking \$41,900 obo. 989-213-7165 Freeland, MI.

1998 NH 8970, MFWD tractor, 4500 hrs., tires 40%, great cond. Selling out. \$45,000. 260-704-0305 Grabill, IN.

2000 JD 9300, exc. cond., gd. paint, well maintained, stored inside. 517-605-9518 Blissfield, MI.

2000 NH TL80 tractor w/cab, gd. rubber, 80 to 100 in HP, 3700 hrs., \$21,000. 937-621-7965 Yorkshire, OH.

1980 White 2WD 2-135 tractor. 812-655-3867 Glenwood, IN. Website pictures at: bit.ly/AV-Farms

2010 NH T8050, FWA, duals & weights all around, Super Steer, large hyd. pump, HID lights, 1600 actual hrs., nice, nice tractor, \$105,000. 765-621-2192 Pendleton, IN.

2012 JD 7215R, MFWD, auto-trak, loaded w/options, 1000 hrs., \$110,000. 812-350-2613 Franklin, IN.

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1020 GH 30', new wobble box, floor, sickle, guards, \$7000. 513-616-9811 Williamsburg, OH.

1063 CH, gd. cond., \$5000 obo. 812-593-1227 Greensburg, IN.

1980 F2 Gleaner combine, 13' GH, Black 4R 30" CH, gd. cond., \$5000. 937-855-3069 Germantown, OH.

1984 1460 electric. over hyd., new tires, feederhouse rebuilt, bin trap, too much to list, field ready, 17.5' 1020 GH, rebuilt, 1063 CH, \$14,500. 740-256-6011 Gallipolis, OH.

1985 JD 7720 chaff spreader, bin extensions, \$4000; 1991 JD 9500 bin ext., chaff spreader, \$15,000; JD 920 GH, \$3500; JD 643 CH w/high tin outside, corn saver, \$3500; 20' head cart; 1984 Killbros 1200 grain cart, \$1800. Will take \$25,000 for all obo. 765-524-6041 Middletown, IN.

1987 JD 6620 Titan II combine, 1700 actual hrs., barn kept, exc. cond., \$16,000. 502-445-2685 Floyds Knobs, IN.

1989 CIH 1660, 4800 hrs., rock trap, reverser, solid machine, \$12,000. 419-302-7812 Delphos, OH.

1990 CIH 1640, 4777 hrs., rock trap, yield/moisture monitor, chopper, \$8500.; 20' 1020 head, \$4500; 1063 CH, \$4000, 765-318-7349, 765-537-2930 Paragon, IN.

1990 JD 4435 combine, 2035 hrs., chopper, \$11,000; JD 918 platform, poly snouts, w/head cart, always shedded, \$6500. JD 643 CH, \$3500. All gd. cond., used on small farm or all for \$19,000. 606-305-1515 Somerset, KY.

1991 JD 9500 combine, one owner, 4175/2965 hrs., Ag Leader yield monitor, steering valve, chopper, chaff spreader, bin ext., 800R/32 tires, \$28,500; 693 CH 30" Calmer stalk rolls, hyd. deck plates, \$11,000. 812-662-1001 Greensburg, IN.

1992 JD 9400, 4923/3707 hrs., 30.5x32 tires, well maintained, lots of new parts, 920 platform w/poly dividers, 643 CH, \$35,000. 765-541-0360 Cambridge City, IN.

1993 9600 JD, 4394 hrs., 3053 sep. hrs., new tires all around, bin ext., chaff spreader, was at the dealer for \$20,000 plus work on it, \$37,500; 930 GH & cart, \$10,500. 419-428-6401 Stryker, OH.

1994 R62 Gleaner combine, 3106 hrs eng., 2422 hrs separator. 25' GH with header wagon, 6R CH. \$30,000 obo. 937-570-1777. Houston, OH.

1995 JD 693 CH, PTO hookup, gd. cond., \$7000 obo. 812-989-6266 Charlestown, IN.

1995 JD 920 platform, steel dividers, recent knives & guards, poly gd., field ready. 812-486-6353 Loogootee, IN.

1995 JD 9500 3173 eng. hrs., 2117 sep. hrs., well maintained, \$24,000. 606-748-1438 Flemingsburg, KY.

1995 JD 9600, 5067/3381 hrs., like new tires frnt./rear, field ready, \$17,000. 419-236-9759 Elida, OH.

1996 9500, 3654 eng. hrs., 2230 sep. hrs., 4WD, chaff spreader, exc. cond., \$40,000. 513-314-1867 Bethel, OH.

1996 JD 9500, 4508 eng. hrs., 2930 sep. hrs., Contour Master, chaff spreader, long unloading auger, J&M bin extensions, big tires, 925 full finger GH, 643 low tin CH, gd. cond., field ready. 260-525-8763 Berne, IN.

490 COMBINES & PICKERS - HEADS

1998 MF 883 CH, steel, gd. tin, exc. shape, \$3000 obo. 517-712-4959 Coldwater, MI.

1998 NH 25' 973 grain head, \$2500. 937-684-2848 Eaton, OH.

2001 CIH 2366, 4100 eng., 3100 sep., field tracker, rock trap, chopper, bin extensions, well maintained, \$49,000. 513-310-6532 Brookville, IN.

2001 JD 893 CH, knife rolls, hyd. deck plates, height control, PTO shaft, header wagon, \$15,000. 260-437-2566 Monroeville, IN.

2002 JD 930F, all composite fingers, Contour Master, gd. straight bar, always shedded, very gd. cond., \$8000 obo. 765-564-5517 Cutler, IN.

2003 Case IH 2388, 3488 eng. hrs., 2311 sep. hrs., 4WD, AFS, chopper, RT, FT, bin ext., \$40,000; Case IH 1020, 30', \$3500. Head trailer avail. 812-384-6883 Worthington, IN.

2003 JD 930F gd. cond., full finger auger, single point or multi-point, w/30' EZ-Trail cart, \$8500. Will separate. 765-795-5023, 765-720-1006 Cloverdale, IN.

2004 2366, 2832 eng., 2079 rotor, 4WD, 2nd owner, exc. cond., \$49,500. 812-533-1714 W Terre Haute, IN.

2005 Agco Gleaner 3000 6R poly CH. 812-655-3867 Glenwood, IN. Website pictures at: bit.ly/AVFarms

2005 JD 630F grain table w/extra rebuilt sickle & J&M head cart w/lights, \$16,000 obo. 765-969-9774 Economy, IN.

2006 2208, hyd. deckplates, new chains & sprockets, \$12,500; 2012 Drago 8-30", red poly, large CIH feederhouse, \$19,500. 618-562-4819.

2008 JD 1293 CH, recent gathering chains & sprockets, low ac., gd. cond., asking \$15,000. 812-756-2022 Osgood, IN.

2009 CIH 2020 35', serial CBJ041683, header control, field tracker, was on 2588, new sickle 3" cut, plus extra sickle, field ready, asking \$5500 obo. 219-863-2785 or 219-863-4661 Reynolds, IN.

2009 CIH 5088, 2336 eng. hrs., 1871 sep. hrs., AFX rotor, chopper, RT, FT, Pro 600 monitor, duals, or 30.5x32 singles, exc. \$79,500. 618-562-4819.

2009 CIH 5088, 1755 eng. hrs., 1210 sep. hrs., exc., \$79,500. 217-251-3830.

2010 JD 608C CH, 8-30", knife rolls, single point, 2500 total ac., very gd. cond., w/Unverferth header wagon, \$33,000. 567-674-4114 Kenton, OH.

2010 JD 635F, exc. cond., extra sickle bar, \$14,500, header cart also avail. 937-564-1787 Versailles, OH.

2011 30' 3020 full finger auger, SI flip reel, w/J&M header cart, low ac., extra nice, \$25,000. 419-235-1933 Delphos, OH.

2011 Agco 9250, 25' draper platform, standard reel, \$32,000. 815-488-2835 Ladd, IL.

2012 CIH 3020, 30', hydra-flex, \$17,500. 618-562-4819.

2012 CIH 5088, 1087 sep. hrs., 372 receiver, Nav controller, Pro 700 monitor, 900/60R32 tires, exc. cond., \$139,000. 419-235-1933 Delphos, OH.

2012 Drago 8-30, JD hookups, Yetter devastators, very nice, \$26,000. 614-332-7874 London, OH.

2012 JD 625F grain head, Hydroflex, poly, stubble lights. Less than 1800 total acres. Univerferth trailer. Pair for \$24500. 812-369-9979 French Lick, IN.

2013 Gleaner S67 combine, 482 sep., 730 eng., demonstrator model, loaded w/options, \$175,000. 815-488-2835 Ladd, IL.

2016 CIH 7240, 305 sep. hrs., \$50,000 in options, farmer owned & operated, shed kept, very, very nice, must sell. Make offer. Zero percent financing available. 937-533-0763 Camden, OH.

323 New Idea corn picker, single narrow row, \$600 obo. 765-489-5375 Hagerstown, IN.

40-90 series CH's, stock roll gear boxes, rebuilt and used. 217-202-6596 Rantoul, IL.

625E GH on Unverferth cart, \$8000; Krause 3954N disc, 24' w/mounted rolling basket, \$9000; Buhler grain auger, 10"x61' \$1000; 1959 JD 730 gas tractor, new tires, new paint, \$8000. 765-426-8112 Lafayette, IN.

660 combine stock standard hopper ext., best offer. 517-605-9518 Blissfield, MI.

820 GH 16.5' w/cart, gd. cond. 513-720-4183, 513-720-4165 Sardinia, OH.

9560W 2358 hrs., bought new on small farm, always shedded, records since new, heads avail. 812-969-2174 New Albany, IN.

9750 STS combine, chopper, Contour Master, bin extension, round bar concave, 930F bean head, 3185 eng., 2048 sep., \$48,000. 502-262-6512 Floyd Knobs, IN.

Calmer BT crusher stock rolls for JD 643 header, comes w/new mounting hardware, gd. shape, \$1050 firm. 513-839-1353 Oxford, OH.

Case IH 1688 4800 hrs., Field Tracker 4WD, rebuilt feeder house, bin extension \$15,000, 1083 Case IH CH \$3500 obo; 1020 30' grain table, oil bath wobble box \$35.00 obo. 812-797-5444 Bedford, IN.

Case IH 3206, 30' CH, poly in gd. cond., hyd. deckplates, tracker, lights, used on small farm, ran on a 2366, very nice, always shedded, \$15,000. 765-202-4260 Cutler, IN.

CIH 1640, Cummins, 2800 hrs., highly maintained, very nice, complete, field ready. 270-692-7329 Lebanon, KY.

CIH 1660 combine, 4444 hrs., Cummins, w/1063 CH, 1020 20' grain head, and 20' head cart. Lots of newer parts and updates. Can send pics. \$22,500 for all. 812-639-1245 Ferdinand, IN.

CIH 1680 Int. eng., field ready, \$10,500 obo. 812-593-1591 Greensburg, IN.

CIH 1688, Cummins eng., 4800 EH, exc. cond.; 1083 CH, w/plastic. 317-294-6442 Sheridan, IN.

CIH 2020 30' grain platform, poly skids, nearly new knives, field ready. Can also purchase header cart to go with it. 812-797-1421 Orleans, IN.

CIH 2188, \$30,000; CIH 2206 CH w/trailer, \$18,000; CIH 1020 25' head w/trailer, \$3500. 812-591-2400 Hartsville, IN.

CIH 3206 CH, plastic snout, hyd. stripper plates, Stalk Stompers, exc. cond., less than 5000 ac. 812-797-1421 Orleans, IN.

CIH 5100 21x7 Soybean Special, very gd. cond., \$4000; CIH 1063 CH, gd. cond., \$3500. 574-855-9377 Cassopolis, MI.

Complete straw chopper for JD 9600, 9610, 9650, 9660 walker machines, w/wide spread deflector, \$1500. 937-336-1191 Eaton, OH.

F-2 Gleaner 4 cyl. turbo, 4-30 black CH, \$4000. 812-350-4601 Columbus, IN.

Gleaner M2 combine, used last season, gd. 6R black CH, 15' table for service or parts, \$3000. 419-332-4667 Fremont, OH.

IH 234 picker, new chains & sprockets 2 yrs. ago, exc. mechanical cond. 812-614-0456 Westport, IN.

IH 863 6R CH, exc. cond., PTO drive shafts, reel, Stalk Stompers, high corn shields, header cart, \$5800 obo. 937-725-7351 Sabina, OH.

Int. 1460 stick combine, w/963 CH, fair cond. 765-960-6128 Rushville, IN.

Int. 1660, 1020 20' head, 1063 w/water pump bearings, \$30,000 all. 937-733-4721 Eaton, OH.

Int. 863 CH, works gd., \$2900. 937-725-1962 Wilmington, OH.

JD 1982 model 7720 combine, 920 GH, \$9850; 1995 JD 925 GH, \$3900. 765-578-0993 cell. Redkey, IN.

JD 215 flex GH & 443 low tin CH, gd. cond., \$1500 ea. 937-526-3012 Versailles, OH.

JD 4400 dsl., 2228 hrs., runs great, w/443 CH, \$2200 for both. Will separate. 765-480-9157 Camden, IN.

JD 463, set up for Int. 937-733-4721 Eaton, OH.

JD 635 & 630 hydra flex heads, field ready, \$15,000 choice. 317-512-2129 Franklin, IN.

JD 635 Hydra flex grain table, w/J&M cart. 614-873-4210 Plain City, OH.

JD 643 CH, PTO shafts, or chain locks, new paint exc. cond. 765-208-0000 Anderson, IN.

JD 643 CH, poly snouts, oil bath, field ready. 812-343-5352 Columbus, IN.

JD 6600 4730 hrs., gd. AC, always shedded, new belts, w/216 SS head, \$6000. 765-238-1147 Parker City, IN.

JD 6620 Hillside 6R narrow CH 20' table, PTO hookup; IH 93 2R wide, 10' head; Hay equipment also avail. Financing for qualified. Edward Martin: 269-370-8277 Hartford, MI.

JD 6620 hydro diesel combine, \$3500. 812-327-0464 Spencer, IN.

JD 6620, field ready, used on 150 ac. farm last 12 years, barn kept, well maintained, asking \$6000. 740-285-4517 Minford, OH.

JD 6620, gd. cond., field ready, no problems, around 4000 hrs., \$5500. 859-991-9582 Dry Ridge, KY.

JD 7720 combine, \$5000, yellow cab, 4400 hrs., 643 CH, \$2500, 915 GH, \$2500. 317-509-3072 Needham, IN.

JD 7720 combine, \$6000. 513-623-9913 Dillsboro, IN.

JD 893 CH, drive shafts, hyd. deckplates, header control sensors, gd. cond., \$14,000. 260-410-0503 Ft. Wayne, IN.

JD 893 poly, PTO shaft, hyd. deck plate, field ready, single point hookup, \$11,500. 740-837-0103 South Charleston, OH.

JD 915 GH, 15', field ready, \$2250. 812-327-0464 Spencer, IN.

JD 920 GH, w/cart, \$5000 obo. 812-620-0564 Salem, IN.

JD 920F GH, new wobble box, gd. straight auger, SCH cutter bar, new sections, gd. poly, hydro fore & aft on Unverferth 20' header cart, \$7900. 765-620-6076 or 765-620-6077 Pendleton, IN.

JD 930F grain platform, new wobble box & skid plates, gd. cond. 937-408-8742, 937-408-4221 Springfield, OH.

JD 9400 combine, 200 hrs. on rebuilt eng, gd. cond., field ready, \$19,000. 270-299-5000 Greensburg, KY.

JD 9770 STS, 150 sep. hrs., duals, field ready, \$75,000; JD 630 grain platform, \$6500. 419-305-3266 Maria Stein, OH.

JD straw chopper, straw spreader off of 4400 combine, \$250 ea. 765-669-0894 Converse, IN.

JD turbo 6620, 60 hrs. on JD rebuilt eng., new turbo, gd. cond., needs roof, JD 215 GH, new unused blade, gd. head cart, all \$14,750. 502-706-8521 New Castle, KY.

NH 74C 30' GH, 2003, single point hookup, Contour Master; Unverferth HT30 header cart, lights & tires, \$4900. Will separate. Gd. cond. 937-515-9734 Winchester, OH.

NH 974 6R CH, plastic snouts, gd. cond., \$3200. 765-238-1720 Ridgeville, IN.

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(2) Brent 644 hopper wagons, like new, always shedded and clean. 937-538-1176 Anna, OH.

(2) J&M 385 gravity wagons, green, tarps, White packages, 22.5 truck tires, telescoping hitches, very nice, like new, barn kept, \$6500 ea., \$12,000 for both. 937-605-2025 London, OH.

(2) Parker wagons, 325 bu., 8 bolt gears, slide hitch, shedded, one owner. 765-220-0815 Liberty, IN.

(2) Richardton 960 dump carts, \$10,000 ea., great cond. 765-561-1556 Rushville, IN.

(2) Unverferth wagons, roll tarps, stored inside, very gd. cond., \$4000 ea. \$7500 for pair. 260-615-4126 Bluffton, IN.

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500 WAGONS

2012 Demco 850 grain cart, floater tires, hyd. spout, exc. cond., \$17,500. 812-756-2022 Osgood, IN.

2014 J&M 875 grain buggy, new lower auger 1 yr., tarp, nice cond, \$21,500. 740-468-3193, 740-404-0305 Pleasantville, OH.

2014 J&M 875-18 grain cart, factory roll tarp, tilt spout, 900x32 Michelin tires, green. 812-569-3105

A&L 500 grain cart, gd. cond., ready for the field, \$5000. 812-521-2842 Seymour, IN.

Badger 1050 silage wagon, gd. cond., always shedded. 419-852-3208 Maria Stein, OH.

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Brent 640 split tank gravity wagon, w/hyd. auger. 765-366-6464 Crawfordsville, IN.

Brent 644 bushel wagon w/tarp, very little use, exc. cond., \$10,500 asking price. 765-571-0154 shouser@scsew.com

EZ-Trail 510 grain cart, gd. cond., red, turf tires, newer tarp, new btm. auger w/scales. 812-797-1421 Orleans, IN.

J&M wagons, 35-SD, (3), very gd., \$3500 ea. 517-929-3056 Tekonsha, MI.

Killbros 1200 grain cart w/scales, \$16,000; (2) Killbros 400 center dump wagons, \$2000 ea.; Gehl 960 tandem silage wagon, \$1000; NH tandem silage wagon, \$1000; Gehl 1200 chopper belt-ed head 30", 2R, \$1000; Gehl 800 hay head chopper, \$800. 812-591-2400 Hartsville, IN.

Killbros 1600 grain cart, 2 sets of extensions, 30.5x32 tires, roll tarp, stored inside, \$14,950. 502-641-8669 Taylorsville, KY.

Killbros 1800 grain cart, tarp, newer 30.5x32 diamond tread tires, barn stored, \$15,000. 740-572-1719 Washington CH, OH.

Killbros 450 center dump wagon, 13 ton gear, \$1500. 812-569-7249 Dillsboro, IN.

MILLER PRO WAGONS stainless steel bolt on trough, cross conveyor assembly. Easy install 724-970-8071.

Parker 500 grain cart, gd. cond., \$6800. 812-525-7315 Seymour, IN.

Unverferth 5000 grain cart, corner auger, roll tarp, lights, scale, exc. cond., \$14,000. 317-474-3364, 317-313-1148 Franklin, IN.

WAGONS: tandem gear w/8x18' steel bed, \$650; Gehl 940 forage box on 10 ton gear \$1250; Meyer forage box on tandem gear \$2500; several other small wagons. 419-495-2635 Van Wert, OH.

510 TILLAGE (PLOWS, DISCS, ETC.)

20' Smart Till, like new, exc. for cover crop & manure incorporation. 937-538-8516 Anna, OH.

2011 JD 2700 mulch ripper, exc. metal, great paint. 765-620-0514 Pendleton, IN.

2012 Salford 8209 moldboard plow, 9-18, auto spring reset, on land, plowed very little, exc. paint & iron, field ready, must see, \$40,000. 765-620-0514 Pendleton, IN.

2013 Sunflower 4511-09 disk chisel, heavy duty spring tine harrow, 1600 ac. total use. 815-488-2835 Ladd, IL.

33' Landoll 7431, gd. baskets, 20 1/4 front & 21 1/2 rear blades, \$25,000. 219-869-2138 Wolcott, IN.

Blu-Jet Sub-Tiller II, 5 shank, in-line ripper, \$5000. 812-208-2464 Clinton, IN.

Bush Hog 9 shank pull chisel, one owner, always shedded, \$2900. 317-442-8471 Lebanon, IN. dae642@aol.com

CIH 720 6-18, exc. paint, exc. metal, barn kept, new hyd. hoses, \$5000. 765-620-0514 Pendleton, IN.

DISC: Kewanee FF discs \$2500-3250; 24' 490 IH disc, \$500. 419-495-2635 Van Wert, OH.

510 TILLAGE (PLOWS, DISCS, ETC.)

IH #70 3x14 pull type plow, \$475. 419-495-2635 Van Wert, OH.

IH 518 plow, 7-20, gd. shape, \$1200. 317-695-1236, 317-439-2871 McCordsville, IN.

IH 540 semi mounted plow, 3x16, new shares, \$750. 317-441-7335 Danville, IN.

IH 720 onland plow, 7 bottom, auto reset, gd. iron, \$2500. 765-561-7858 Falmouth, IN.

Int. 4600 vibra shank, 30', 3 bar spike harrow, \$2900. 937-308-1117 Union City, OH.

JD 1600 3 pt., 12 shank chisel, new shovels, new 5.9x15 tires, tight springs, always shedded, \$1900. 317-442-8471 Lebanon, IN. dae642@aol.com

JD 2700 5 btm. plow, like new, one of the cleanest around, \$1750. 419-308-1408 Wayne, OH.

JD 3700 10x18, \$7000. 574-889-3955 Logansport, IN.

JD 512 7 shank folding disc chisel, notched front, smooth rear, blades, new points, gd. scrapers, bought new in 2012, no rear harrow, cushion trip shanks, very gd. cond., \$14,500. 815-383-2097.

JD 512 disc ripper, new blades and scrapers, field ready. 765-419-7100 Galveston, IN.

JD 7 shank 900 V-ripper, \$3000. 812-208-2464 Clinton, IN.

Krause Landsman 24' good condition, always shedded, good sweeps, good tires. \$7500. 937-539-0950.

McFarlane Insite vertical tillage tool, new in 2018, 27' 3-6 and 9 degree settings, hyd. adjustable gangs, used very little acres. 317-498-3716 Wilkinson, IN.

New 3 pt. tillers, 4' XB \$1375. 4' 1475. 5' \$1565. 6' \$1875. 7' \$2225. 8' \$2995. 812-366-3540 Corydon, IN.

Oliver 566, 5 btm. semi mount plow, \$275. 765-238-1720 Ridgeville, IN.

Remlinger PST strip till, 1230 pull type w/markers, gd. cond., \$16,000. 740-572-1719 Washington CH, OH.

Unverferth 1225 dbl. rolling harrow, 30', Buster Bar, \$5000. 765-620-0514 Pendleton, IN.

Unverferth 7 shank penetrator disc chisel, gd. cond. w/newer disc, \$6500. Unverferth 130 4 shank zone builder, exc. cond., green, \$7800. 419-615-9789 Ft. Jennings, OH.

Unverferth 500 caddy with Unverferth 132 5 shank inline ripper, great shape, \$16,000 obo. 419-852-5300 Ft. Recovery, OH.

Wanted: JD plow #77, 680 or 690. 3, 4, 5 or 6 btm. trailer plows, hyd. or trip. Also IH #60 or 70. 4, 5 or 6 btm. trailer plow, hyd. or trip. 217-202-6596.

520 PLANTERS - DRILLS

2008 Kinze 3600, 12R, set up w/full precision planting, hyd. downforce, V set meters, w/elect. drives, V apply HD & furrow jets on row fert., 2x2 fert. w/Sunco Nutrimate & row cleaners. Call/text for more info. 419-564-2437 Lucas, OH.

8300 JD grain drill, 23 disc, avg. cond., \$2150. 812-296-0043 Odon, IN.

Case Int. 5400 15' no-till drill, Yetter cart, markers, harrow, \$4500. 765-318-7349, 765-537-2930 Paragon, IN.

Great Plains 1006 NT, 10' no-till drill, exc. cond., \$15,500 obo. 937-459-0618 Greenville, OH.

Great Plains 22x8 no-till drill, CPH w/3 bar harrow & SI belt meters, ready for work, asking \$10,750. 765-426-0935 leave message, will call back. Lafayette, IN.

Great Plains SS30 drill; Great Plains SS24 drill. \$3700 ea. 574-889-3955 Logansport, IN.

JD 7000 36' rows, dry fert., always shedded, w/trailer, \$1300. 269-436-0410 Decatur, MI.

JD 750 drill, 15', 150 ac. on complete rebuild, all Needham ag updates, dolly wheel, hopper top, Thompson closing wheels, full rack of weights, nice as they come, \$16,000. 317-494-1531 Edinburgh, IN.

520 PLANTERS-DRILLS

JD 750 no-till, 15', 7.5" markers, dolly wheels, field ready, extra clean, \$12,500. 317-512-9265 Shelbyville, IN.

Kinze 3500 8R w/7R pusher, folding, liq. fert., for both 8R & 7R pusher corn meters, bean meters, no-till. 419-605-1747 Convoy, OH.

Planter parts and attachments. Complete planters and soybean splitter bars., Lots of parts. 217-397-2404 Rankin, IL.

United Farmers tool, no-till, 12' drill, exc. cond. 419-615-8347 Otawa, OH.

White 5100 6R, liq. fert., Yetter, no-till fert., updated pop. monitor, nice planter, 2 owner, \$6200. 765-238-1720 Ridgeville, IN.

530 HAY EQUIPMENT

(4) Miller Pro 4100 tandem silage wagons (1) 18' (3) 16', \$4500 ea., \$17,500 for all. 317-694-0292 Fountaintown, IN.

2006 JD 956 MoCo, center pivot, 14.5' cut width, impeller conditioner, 2 pt. hookup, \$6995. 606-669-5163 Crab Orchard, KY.

8840 Case Int. 14' sickle, w/2500 hrs., Cummins eng., \$8500 obo. 765-580-1584 Connersville, IN.

EHE spinner hay tedder, brand new, All American made, all parts interchangeable. Delivery avail. in Indiana. For info. & brochure call Kings Repair 765-597-2015 Marshall, IN.

Fiberglass hay wagon beds. 812-257-9700.

FP 230 NH forage harvester, w/kernel processor, 3RN CH, 9' hay head; (2) 1050 Badger silage wagons. 812-525-6049 Brownstown, IN.

Good used NH choppers & new Horning processors. Also lots of new & used NH or JD parts avail. 765-597-2205 Marshall, IN.

Hay baler knotters repaired on your farm. All makes & models. New & used baler parts in stock; also repairs on NH rakes & mowers. NH rakes for sale. Kings Repair 765-597-2015 Marshall, IN.

HAY EQUIPMENT: NH 259 rake, \$1850; NH 492 haybine, \$4500. 419-495-2635 Van Wert, OH. 419-495-2635

JD model 16A green chopper, very gd. cond., \$2000. 937-467-3351 New Weston, OH.

New SITREX hayrakes: 10 wheel w/kicker \$5950, 9 wheel inline \$5250, H90 10 wheel w/kicker \$4450, QR12 w/kicker \$6500, MX10 hayrake \$9000. Skid steer mtd bale squeezer \$1950. 765-825-1439 Connersville, IN.

NH 310 small square baler. Runs and ties great, good tires. Perfect for small operation or as a backup. Includes manual and parts book. Pictures available, \$3250 obo. Call or text 765-348-8981. Hartford City, IN.

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NH 853 rd. baler, no monitor, \$2000 obo. 812-744-3850 leave message. Moores Hill, IN.

NH BT 72 bale thrower, exc. cond., complete w/thrower, hyd. pump, hyd. tank, hoses, belts, etc. Cost nearly \$86 new. Removed from newer NH 5070. Pictures avail. Call or text. \$4400 obo. 765-348-8981 Hartford City, IN.

NI 5409 3 pt. disc mower, gd. cond., used last season, \$3250. 618-426-3867

540 MANURE EQUIPMENT

550 Case IH manure spreader w/slop gate, \$3500. 937-621-7965 Yorkshire, OH.

8024 Knight spreader, \$10,000. 317-695-1236, 317-439-2871 McCordsville, IN.

Better-Bilt 2100 gal. liquid manure spreader w/vacuum pump, in good condition, \$5000.00. 260-615-1890 New Haven, IN.

Kuhn Knight 8140 slinger spreader, splash guards, lights, very good. \$17,500. 765-963-4040 Tipton, IN.

MANURE SPREADERS: JD H \$850, NI 17 ground drive, \$1550; NI 212 3 beater, \$2750; IH 550 single beater, \$1775; Ford NH 329 single beater w/slop gate, \$2750; NH 676 tandem axle 2 beater w/slop gate, \$3900; IH single beater, single axle, PTO, \$1850. 419-495-2635 Van Wert, OH.

New Idea 213 manure spreader, PTO, hyd. gate, flail spreader, 3 cu. yd., stored inside, \$750 obo. 765-480-6360 Flora, IN.

Nuhn manure tanker, 6500 gal., vacc. & top fill, 6R injector, \$40,000. 937-423-0998 Ansonia, OH.

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NH 358 grinder mixer, w/scales, 1000 PTO, \$3500. 812-457-4892 Dale, IN.

560 MISC. FARM EQUIPMENT

(5) gravity wagons, Mayrath grain auger, 8x34 PTO & Gleaner K combine w/heads. 812-623-3571 Sunman, IN.

1500 bu. Behlen wire crib; 44' Kewanee elevator. Both great cond. 812-636-0036 Odon, IN.

2012 Schulte 2500 rock picker, hyd. reel, \$17,000. 765-465-0309 New Castle, IN.

21' EZ-Trail header cart, model 680, bought new & used 1 year, Chandler fert. SS spreader, model 9-PT-FT, 540 PTO & bought new in 2009.. IH fast hitch to 3 pt. adaptor. Can send pictures. 419-680-5238 Green Springs, OH.

Baasch drive over pit, \$3500. 574-889-3955 Logansport, IN.

Farm equipment. Shelbyville, IN. 2000 Freightliner 112, day cab, 396,000 mi., new rear end, gd. brakes & tires, 11 liter, DD, 350HP, 13 spd., \$12,000; 2000 Drake trailer, 32' long, 102" wide, new brakes & bearings, lightly used, \$11,000; 1978 IH 4586, 4x4, 2300 hrs., 4 remotes, R30.5x32 Firestone tires 85%, \$10,500; Great Plains 3000 Turbo Till, 30', lightly used front blades, 3 bar harrow, \$20,000; Unverferth 132, 6 spring shank ripper, wear shins, used on 50 ac., \$12,000; Blu-Jet Land Runner 41', no-till, 25 shank, (2) John Blue Nitro Pacers, (2) breakaways or GDI pump avail., \$10,000; White disc 272, 31' w/harrow, \$5500 w/spare parts; Hesston 2210 field cult., 33', lightly used Sunflower 5 bar harrow, \$4000 w/spare parts. All reasonable offers will be considered! Call 317-441-2329 or home 317-729-5363. Please leave a message!

21' EZ-Trail header cart, model 680, bought new & used 1 year, Chandler fert. SS spreader, model 9-PT-FT, 540 PTO & bought new in 2009.. IH fast hitch to 3 pt. adaptor. Can send pictures. 419-680-5238 Green Springs, OH.

Baasch drive over pit, \$3500. 574-889-3955 Logansport, IN.

Farm equipment. Shelbyville, IN. 2000 Freightliner 112, day cab, 396,000 mi., new rear end, gd. brakes & tires, 11 liter, DD, 350HP, 13 spd., \$12,000; 2000 Drake trailer, 32' long, 102" wide, new brakes & bearings, lightly used, \$11,000; 1978 IH 4586, 4x4, 2300 hrs., 4 remotes, R30.5x32 Firestone tires 85%, \$10,500; Great Plains 3000 Turbo Till, 30', lightly used front blades, 3 bar harrow, \$20,000; Unverferth 132, 6 spring shank ripper, wear shins, used on 50 ac., \$12,000; Blu-Jet Land Runner 41', no-till, 25 shank, (2) John Blue Nitro Pacers, (2) breakaways or GDI pump avail., \$10,000; White disc 272, 31' w/harrow, \$5500 w/spare parts; Hesston 2210 field cult., 33', lightly used Sunflower 5 bar harrow, \$4000 w/spare parts. All reasonable offers will be considered! Call 317-441-2329 or home 317-729-5363. Please leave a message!

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Grade 8 bolts, nuts, washers, 1/4" to 1" diameter. \$1.50/lb. 270-734-9672 Leitchfield, KY.

IH 3 pt. carrier, 65" wide X 36" deep. 574-870-3400 Monticello, IN.

JD 400 rotary hoe, 30', \$2000. 765-623-1370 Anderson, IN.

JD 450C dozer, 6 way blade, wench, also have trailer, all gd. cond., \$16,500. 937-217-0009 Seaman, OH.

JD 9870 STS, 2143 sep., duals, chopper; JD 2800 7 bottom plow; 24' JD 726 finisher; 24' Brillion packer; 34' Brillion optimizer. 574-633-4852

Killbros 390 gravity wagon, dual compartment, w/14' poly cupped auger, 20' extensions avail., \$3500; 10' UFT rotary mower, stored inside, \$1000. 765-662-7056 Marion, IN.

NEW TITAN 3pt. mowers: 4ft. \$795, 5ft. \$895, 6ft. \$1295. New Bush Hog 3 pt. mowers: BH5 5ft. \$1150, BH15 5ft. \$1850, BH16 6ft. \$2250. 765-825-1439 Connersville, IN.

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Bush Hog BH5 5' rotary cutter	\$1,700
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Kuhn Krause 4865-11 sh. disc ripper, 18" centers	\$ CALL
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Kuhn Krause 6205-31, 31" Landsman	\$ CALL
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*08 J&M 1150-20 w/tarp, 76" floaters	\$32,000
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*09 J&M 1151-22, tarp, 76x50x32	\$35,500
*16 J&M 1112-20 tarp, scales, tracks	\$74,000
*12 J&M 1131-22 tarp, scales, 1250s	\$36,000
*11 J&M 875-18 scales, floaters	\$23,500
*14 J&M 875-18 w/tarp, 66x43x25 floaters	\$25,000
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Man killed in dairy explosion caused by ruptured fuel tank

By STAN MADDUX
Indiana Correspondent

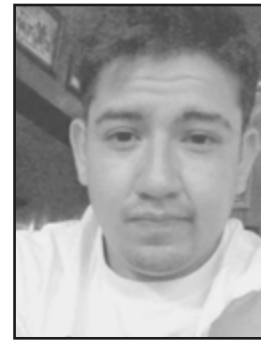
PLYMOUTH, Ind. — A 22-year-old Indiana dairy farm worker was killed Sept. 16 in an explosion and fire while trying to rescue several dozen calves.

David Fajardo of Logansport was employed at Homestead Dairy in Plymouth for four months.

"Plant workers are still in shock and mourning," said Jill Houin, calf manager at the 5,800-head operation.

Houin said Fajardo was cleaning one of the pens in the building when he backed a skid loader into a propane tank. She said he went outside, then ventured back in to try to rescue the calves, when gas leaking from the ruptured tank exploded.

The propane was used to heat water for the automatic feeders distributing milk to the newborn calves, she said.



DAVID FAJARDO

"Our workers knew him. He was a good kid," Houin said.

About half the barn was destroyed from the explosion and fire. She said a fireball melted the curtains and burned some hay in another barn next to it, but those flames were contained without much, if any, damage to that structure.

She said 27 of the 50 milking calves inside a newborn pen died in the explosion and fire.

About 380,000 pounds of milk are produced daily from 4,900 milking cows at the farm. Also kept are 900 calves for later milk production. Houin said all the milk from the dairy is sold under the Great Value brand at Walmart.

Fajardo, who had just celebrated his birthday in early September, was born in Mexico and is survived by his parents and a sister, all of Logansport. According to his obituary, he was also employed at Tyson Foods and had attended Logansport High School.

USDA opens 2019 enrollment to federal ARC and PLC programs

WASHINGTON, D.C. — Agricultural producers may enroll in the Agriculture Risk Coverage (ARC) and Price Loss Coverage (PLC) programs, for the 2019 crop year. Interested producers must sign up for either program by March 15, 2020.

The 2018 farm bill reauthorized and made updates to these two USDA Farm Service Agency (FSA) programs. ARC provides income support payments on historical base acres when actual crop revenue declines below a specified guarantee level. PLC provides income support payments on historical base acres when the price for a covered commodity falls below its effective reference price.

U.S. Secretary of Agriculture Sonny Perdue said, "This exciting opportunity for enrollment in these programs marks the first time folks will have the opportunity to switch their elections since the 2014 Farm Bill was implemented."

Covered commodities include barley, canola, large and small chickpeas, corn, crambe, flaxseed, grain sorghum, lentils, mustard seed, oats, peanuts, dry peas, rapeseed, long grain rice, medium grain rice (which includes short grain rice), safflower seed, seed cotton, sesame, soybeans, sunflower seed and wheat.

Updated provisions in the 2018 Farm Bill allow producers with an interest in a farm to enroll and elect coverage in crop-by-crop ARC-County or PLC, or ARC-Individual for the entire farm, for program year 2019. The election applies to both the 2019 and 2020 crop years. If a 2019 election is not submitted by the deadline of March 15, 2020, the election defaults to the current elections of the crops on the farm established under the 2014 Farm Bill. No payments will be earned in 2019 if the election defaults.

For crop years 2021 through 2023, producers will have an opportunity to make new elections. Farm owners cannot enroll in either program unless they have a share interest in the farm. Once the 2019 election and enrollment are completed, producers on the farm for 2020 can complete an enrollment contract for the 2020 crop year beginning Oct. 7, 2019 and ending June 30, 2020.

Although 2019 enrollment must occur first, a producer waiting until Oct. 7, to enroll is afforded the opportunity to enroll in either program for both 2019 and 2020 during the same office visit. During this time, farm owners have a one-time opportunity to update PLC payment yields that takes effect beginning with crop year 2020. If the owner accompanies the producer to the office, the yield update may be completed during the same office visit.

In partnership with USDA, the University of Illinois and Texas A&M University are offering web-based decision tools to assist producers in making informed, educated decisions using crop data specific to their respective farming operations:

- Gardner-farmdoc Payment Calculator, the University of Illinois tool that offers farmers the ability to run payment estimate modeling for their farms and counties for ARC-County and PLC available at <https://fd-tools.ncsa.illinois.edu>

- ARC and PLC Decision Tool, the Texas A&M user friendly tool that allow producers to analyze payment yield updates and expected payments for 2019 and 2020. Producers who have used the tool in the past should see their user name and much of their farm data will already be available in the system at www.afpc.tamu.edu/tools/farmland/2018

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COMING EVENTS

Editor's Note: *Coming Events* is a free listing. The material presented is a cross-section of activities about which we know. Placement in *Coming Events* is on a space-available basis and is up to the discretion of the *Farm World* staff.

20. For more information, visit www.cornhusking.com

TENNESSEE

Oct. 3: The University of Tennessee AgResearch is hosting "Ag in the Foothills" Field Day at the East Tennessee AgResearch and Education Center, Little River Unit in **Walland, Tenn.** More information is at the UT Institute of Agriculture's online events calendar, <https://bit.ly/2DuO5VO>

Oct. 10: The University of Tennessee AgResearch is hosting the Northeast Tennessee Beef Expo at the AgResearch and Education Center in **Greeneville, Tenn.** More information is at the UT Institute of Agriculture's online events calendar, <https://bit.ly/2DuO5VO>

Oct. 16: The University of Tennessee AgResearch is hosting the "Woods and Wildlife" Field Day at the Forest Resources AgResearch and Education Center, Little River Unit in **Oak Ridge, Tenn.** More information is at the UT Institute of Agriculture's online events calendar, <https://bit.ly/2DuO5VO>

ONLINE ONLY

Oct. 15: Allendale, Inc. will offer a free Ag Leaders Conference Series webinar live at 2 p.m. CDT, on crop progress and what to expect in price. Call 800-262-7538 to learn more, or sign up through Allendale-inc.com

OTHER STATES

Oct. 13-15: The U.S. Grains Council, Growth Energy, and the Renewable Fuels Assoc. will host the first Global Ethanol Summit in **Washington, D.C.**, at the Capital Hilton. It will provide attendees direct access to thought leaders on the future of global ethanol use and opportunity to build partnerships. Learn more at <https://grains.org/event/ges>

INDIANA

Sept. 27: The Indiana DNR is hosting a "Learn to Fly Fish" workshop at Salomon Farm Park in **Fort Wayne, Ind.**, from 1-4 p.m. Participants must be at least 16, and those under 18 must be accompanied by a registered and related adult. Those 18 and older must have a fishing license. The workshop is free, but advance registration by is required. Register at the DNR education events page at wildlife.IN.gov/7548.htm

Sept. 28: Don't miss out on the sixth annual Indiana Barn Foundation Historic Barn Tour throughout LaPorte and Porter counties, from 10 a.m.-4 p.m. CT. Come learn more about the Indiana Barn Foundation's mission to save historic Hoosier landmarks and tour recently renovated barns, and the Indiana Bicentennial Barn Quilt will be on display that day. Registration, for \$10 per adult, will take place at the LaPorte County Historical Society Museum in **La Porte, Ind.**, on the day of the tour. For tickets in advance, visit indianabarns.org/events

Oct. 5: The Indiana State Corn Husking Contest will take place on the Craig Geyer farm at 20565 Tyler Road near **Bremen, Ind.** Admission and parking are free; registration begins at 9 a.m. There are classes for all ages, individuals, and four-person teams, and the cost to compete is \$10-\$20. Winners may qualify for the national contest in Nebraska Oct. 19-

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Farmers' mental health and how to help those in crisis

By ANN HINCH
Associate Editor

INDIANAPOLIS, Ind. — Farmers already know their occupation is unlike almost any other, but the science of mental health reinforces it.

Indiana Agriculture Director Bruce Kettler pointed out farmers frequently feel like they carry the weight of the world on their shoulders in providing basic needs to keep society running. "It's important for farmers to know it's okay to ask for help," he said during this month's inaugural Rural Mental Health Symposium in Indianapolis.

Contributing to this particular career stress is worry the job itself could disappear — Farm Bureau research done this year shows fear of losing the farm has great impact on producers' mental health.

When people think of mental health and psychology in the Western world, they may think of Sigmund Freud, who began research in the late 19th century. But Iowa farmer and rural behavioral health specialist Dr. Michael Rosmann said it wasn't seriously studied until years after his death, following World War II when soldiers returned home with what was then called "shell shock."

"We've come a long way (in behavioral study), but we're not nearly as developed as the physical and chemical and biological sciences," he said, though researchers can now measure behavioral health by scientific metrics.

Twenty years ago, he said researchers studied Kenyan sheepherders and found

the more successful ones — with the most animals and who could find the greenest pastures and best conditions — tended to have attention-deficit/hyperactivity disorder, or ADHD. In fact, farmers are four times as likely to have ADHD than the general population.

What this means on a practical level is they are the kind of people to take risks — beneficial in trying new things and working hard, but also behavior that can lead to shortcuts around safety measures. It also means they may overreact to perceived threats and feel high stress.

"That tendency to overreact to alarms makes us good farmers, but it also makes us vulnerable to being overwhelmed," Rosmann explained, adding it also leads to higher rates of depression in ag workers than among the general population.

Higher suicide rates are common among ag workers, as well. He said unique to agriculture is that alongside stress, exposure to some toxic pesticides can work on nervous systems in negative ways. These include classes of organophosphates, organochlorines, and perhaps also neonicotinoids.

The latter has been determined to help kill bees by interrupting the insects' nerve relays and inducing hyperactivity and confusion. Does it have a similar effect on humans? Rosmann said this is not known, since we lack studies — so far — on the long-term buildup of toxins in the environment.

He did say more training in ag medicine for med students is needed, since knowing about farmers' daily lives could keep doctors from prescribing something that could hurt their mental health further.

For example, some common antidepressants mix poorly with these pesticides and may heighten ill effects on the brain.

Mental worry is common

Another speaker at the Summit was Emily Owens, executive director of Clinical Services with Hamilton Center, a regional health system serving much of Indiana. She noted in the Farm Bureau study, 46 percent of farmers said they find it difficult to find a counselor or therapist in their community, as rural areas in general find it hard to attract and retain mental health professionals.

Telehealth — computer or phone consultation with medical pros — can help with this, but more rural areas require broadband internet access for it.

She said there's also a lingering stigma still attached to mental care, and that people who support treatment for a physical illness they see may be less understanding of mental health issues. Because of this, people with such problems may be afraid they'll be judged "dangerous" or "crazy" or "unstable," or their reputation will suffer.

But Owens said it's been proven as
(continued on page 2B)



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Farmers' mental ... (continued from page 1B)

many as 1 in 5 Americans struggle with their mental health and 1 in 25 live with serious mental illness. It's also been shown that 90 percent of suicides had an underlying mental health issue.

Farmers experiencing mental problems often display signs of hopelessness, increased worry, disturbed sleep and irritability, and/or substance abuse, primarily of alcohol or methamphetamines.

Rosmann said another sign people should watch for in loved ones for evidence of depression or possible suicidal thoughts is verbalization of hopelessness; another is lack of laughter for a prolonged period, even as little as three weeks. Deterioration in personal appearance or care of livestock and property are also warning signs.

There's help out there

The good news, he said, is while this is the worst economic recession since the 1980s farm crisis, rates of bankruptcy, farm loss, and suicide are lower now. Back then, many banks foreclosed on farms without providing options for payback, but now he sees more lenders, and courts, willing to work with farmers to try to save their livelihood.

A loan officer in Special Accounts for Farm Credit Mid-America, Ashley Harker said her job is to work with its clients in financial distress. Employees undergo training and refreshers on how to have difficult conversations with borrowers behind on their loans.

"We want them to feel like we are coaching them along the way and going with them along the way, rather than lecturing them," she explained.

Rosmann said there is improved understanding of mental and behavioral health, and more support systems for farmers who feel they're underwater, including phone, text, and online hotlines and helplines.

Angela Sorg, a licensed therapist with Purdue University extension's Mental Health First Aid and Farm Stress teams, said they have several programs that address mental health, and Purdue tries to make sure its employees are trained to recognize what kind of help someone needs.

For anyone wanting to seek therapy but uncertain what to expect, she said it's "not mind-reading," but "a guide to help you weed through the situations" one is in. "And, you're really just going to talk about (your problems). That's really all it is."

If you know someone you feel may be depressed or suicidal, talk to them kindly, but don't be afraid to be direct. "Until we make it our business to care about others, we're going to keep losing people," said Bill Field, Purdue farm safety specialist.

American Foundation for Suicide Prevention Indiana Area Director Kelsey Steuer advises it's important to ask direct, clear questions. "Are you thinking of ending your life?" is clearer than, "Are you thinking of hurting yourself?"

If you know the person's routines and they feel "off" or disrupted in some way, let them know that you've noticed and are concerned. Above all, more than one expert at the Summit advised people to not be afraid that by mentioning suicide, you'll "put the idea" in someone's head to do it - in fact, you may be providing them relief to talk, and to seek help.

Field recalled a dairy farmer who had many problems, who told Field he felt overwhelmed and tried to take his life - but the attempt failed. "Why are you telling me?" Field asked, and the man said: "Because I think you might listen."

So, now he figures, "I can't solve everybody's problems. But I can listen."

The Rural Health Information Hub is funded by the federal office of Rural Health Policy, and is a clearinghouse on rural health issues. Learn more about rural mental health, suicide, and related topics at www.ruralhealthinfo.org



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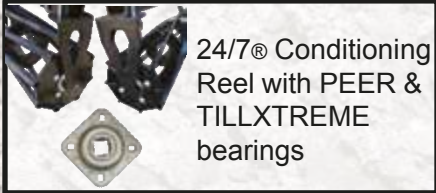
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Stell going pro in music, not sports, is a gift to all

There are some voices I hear on the radio that instantly get my attention, and there are those songs that do the same. But when the two go together, that's when I get excited at a time in country music when, well – so many sound alike.

Now, before you turn to the Markets page, I'm not going to preach about country music sound-alikes, as I have been known to do. There are those instances when I am pleasantly surprised when it comes to Top 40 country radio, and this is one of them.



RURAL ROUTE MUSIC
Bluegrass Johnson

Matt Stell is his name, and he is getting a lot of airplay these days thanks to a tremendous single entitled "Prayed for You." This is a true country song. Indeed, it is a love song, but it has such a message that resonates with me and, obviously, many others.

I guess that is why country music has such loyal fans. The music relates to us in so many ways.

The lyrics speak of a guy who "is not a preacher but a believer." He has prayed for the right person to come along in his life, praying for them even before he knew this person. How many of us have been in that boat ... or, perhaps you are currently navigating those waters?

Ultimately, this song is an acknowledgement to that person once she is found, and this is likely to become one of the biggest wedding

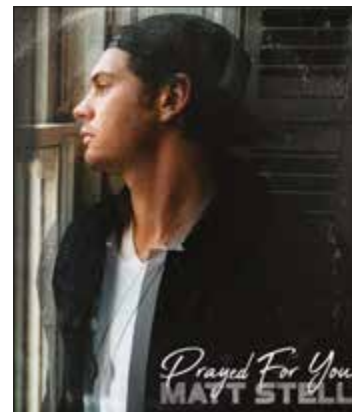
songs ever. The song has been dancing on the charts most of the year and recently went gold, signifying sales of 500,000.

If you are a recording artist or songwriter, this is a big deal. And I suspect Stell will become a big deal. In fact, he made his Grand Ole Opry debut this year and will appear there again in October.

In the biographical section of his website, Stell says: "I just try to be as real as possible." This song is "real," as are his other

tunes. By the way, Stell was a collegiate basketball player and stands at 6-foot-7. (Thought I would throw that in for our sport fans.) I'm really glad his career took the turn it did, as I can see him turning out more "real" tunes for a long time.

You know, at the end of the day, good music is good, but great music is a gift – and here's a shout-out to Matt Stell for giving us some great music. Please, keep it up.



Bluegrass Johnson comes from a long line of country music performers and enjoys a passion for the rhythm and melody. From the hills of Kentucky, he will offer his opinions on a variety of music. Readers with questions or comments may write to Johnson in care of this publication.

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Elanco pledging to link animal health with solutions for society

By ANN HINCH
Associate Editor

GREENFIELD, Ind. — Last Friday marked one year since Elanco Animal Health transitioned to an independent public company, and earlier in the week was the second annual Forbes AgTech Summit in nearby Indianapolis — to take advantage of the visibility of both, Elanco President and CEO Jeff Simmons introduced a corporate effort “to rediscover the power of healthy animals.”

Companion animals and livestock are central to Elanco’s existence, each comprising about 50 percent of its research and product development. Simmons argues that these animals and their caretakers — farmers and veterinarians — are also central to today’s social issues, and further, hold keys to helping solve some of those problems.

“We believe animals are ‘the X factor’ ... that the world is looking for” to help unlock solutions to pressing problems, he said at Elanco’s Greenfield headquarters last week. He added the company is looking to form a foundation, possibly by the end of this year, to marry this X factor to tackling such issues.

He pointed out Elanco will have a wider reach now, as it was announced last month it is purchasing Bayer AG’s animal health business.

This deal is poised to make Elanco — formerly an Eli Lilly and Co. property — the second-largest animal health leader by global revenue.

Right now, Simmons listed five major issues the world is facing that involve animals. One in the headlines for months is the loss of hogs in Asia, particularly China — he said to date, it’s estimated the equivalent of roughly three U.S. systems of pork production have been culled because of African swine fever, leaving a giant gap in protein supply.

Another hot issue is how fast-food chains are latching onto alternative proteins — meat-flavored plant-based products such as the Impossible Whopper from Burger King and Beyond Fried Chicken from KFC. This is in part linked to another issue Simmons brought up — the role of livestock in environmental sustainability and climate change.

Two other topics in which he said animals play important roles are human health care and the growing trend of pet ownership, especially among Millennials.

Despite the worry some livestock groups and farmers have about meat being phased out of diets, Simmons said that’s not the case. This year, for instance, Americans are on track to consume more meat and poultry than ever before. By 2050, he said farmers will need to be able to produce 70 percent more protein than

they do now.

Alternative proteins, while growing in market share, represent an approximately \$4.5 billion industry right now, he said. Meanwhile, animal protein is a \$1 trillion annual industry worldwide. Still, he noted it’s a good time for stakeholders to differentiate animal protein and tout the nutritional benefits of meat-based over plant-based.

Livestock, Simmons said, is uniquely positioned to help improve environmental health, as 60 percent of the world’s agricultural land is not suitable for food crops but is good for pasture. Farmers can realize a future of net-zero carbon emissions by using new production methods, not to mention livestock feed is chiefly comprised of food humans won’t eat, that would go to waste otherwise.

Plus, livestock can produce more protein than they consume, he said, pointing to cattle as one example — putting out 19 percent more than they eat. And there are already farms with anaerobic digesters — for instance — that turn animal waste into renewable energy.

But animal health is necessary to all this. Simmons said worldwide, producers are losing about 20 percent of livestock to disease and death, and Elanco already works to address such problems. “Healthy animals are not a ‘nice-to-have’ for a better world, he said — “They’re a

must-have.”

Another aspect of Elanco’s research, said Vice President of Innovation, Regulatory and Business Development Aaron Schacht, is making animal protein healthier and more nutritive. Sometimes this involves genetic modification, but this is still a sticky wicket as social issues go. Ongoing company research focuses much on vaccines and infectious disease treatment in animals.

“What happens in the gut of an animal” is important to all the issues Simmons outlined, said Schacht, explaining that understanding how that process supports or detracts from each kind of animal’s health is the key to useful research. “It’s like (exploring) outer space.”

Yet another way Elanco can aid in animal care is by helping veterinarians manage their practices better and recognize the need for each other’s mental health care. Sarena Lin, executive VP of Corporate Strategy, Global Marketing, said veterinary professionals are under severe stress and higher suicide contemplation today from “compassion fatigue” stemming from all the illness and death they deal with, as well as financial stress from heavy college debt loans.

Elanco can provide business advice to such vet practices, as well as training to ease stress and to help these people recognize the warning signs in their colleagues and employees.

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Sneaky disobedience isn't any cuter with God than with Mom

Jeremiah 7:22-23 — "For I did not speak to your fathers, or command them in the day that I brought them out of the land of Egypt, concerning burnt offerings and sacrifices. But this is what I commanded them, saying, 'Obey My voice, and I will be your God and you will be My people ...'"



VERSES FROM MAMA
By Sandra Sheridan

From an early age children design sneaky ways to outsmart their parents. They know what they want and don't want to do, so they find creative techniques to get their own way. While some of their antics are funny, the truth is parents don't want to be entertained. They want to be obeyed.

We often laugh at one such situation in our family. Pre-school aged Nathan

was one of the youngest and witnessed the regular tug-of-war between his siblings and me over eating certain foods. He figured he could find a more congenial way out of this predicament.

One evening after I filled his plate with healthy fare he sweetly said, "Mama, thank you for this delicious food, but I am not hungry for carrots right now." We've chuckled over this story for years. But in truth, any kind of disobedience (even the sneaky kind) is no laughing matter.

Jeremiah warned God's people about this very thing. They believed that by ceremoniously making sacrifices they could appease God. Then they could

live their lives doing whatever they preferred. But God was not amused.

God set up the sacrificial system to remind the people of their sins and their need for forgiveness. The sacrifices should have turned their hearts toward God, but instead they became meaningless rituals. Somehow the people missed the point that sacrifices were only secondary in importance to God's primary command of obedience. In fact, God did not even give sacrificing instructions until after He had given Moses the command to obey His voice on Mt. Sinai (Exodus 19:3-6).

Many people today still miss the point. They think if they fulfill spiritual rituals, then they can live any way they want. But today, as in Jeremiah's time, God still sees obedience as better than sacrifice. No amount of creativity can-

cells submitting to God's commands.

Nathan tried to get out of eating carrots. But I knew a young boy needs wholesome food to grow strong and healthy. What I really wanted was for him to trust me and eat everything on his plate without a fuss.

God also knows what is best for us. His commands are for our good. He doesn't want costly sacrifices if we are only going through the motions. He wants us to trust and wholeheartedly do what He says. So don't be fooled: sneaky disobedience doesn't work with God.

Sandra Sheridan is a Midwest wife and mother of five. She shares her messages to her children with *Farm World*. Visit her at www.VersesFromMama.com

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USDA enacts '21st century' swine slaughter rule to praise, criticism

By **TIM ALEXANDER**
Illinois Correspondent

WASHINGTON, D.C. — The USDA's Food Safety Inspection Service (FSIS) posted its final rule establishing an optional new inspection system for pork processors, which USDA and the pork industry say will modernize swine slaughter inspection by bringing it into the 21st century.

According to U.S. Agriculture Secretary Sonny Perdue, the new regulations will eliminate outdated rules and make way for modern food inspection innovations, while continuing to protect public health and safety.

"The final rule is the culmination of a science-based and data-driven rulemaking process, which builds on the food safety improvements made in 1997, when USDA introduced a system of preventive controls for industry. With this rule, FSIS will finally begin full implementation of that program in swine establishments," Perdue said Sept. 17.

FSIS said the New Swine Slaughter Inspection System (NSIS) makes better use of inspectors' resources and enables industry innovation by allowing companies to establish their own independent maximum line speeds and permitting processors to reconfigure evisceration lines.

Pork processing companies may choose not to operate under FSIS standards, but all companies must develop sampling plans tailored to their own operations.

FSIS claims the new system will likely result in fewer cases of salmonella on market hog carcasses, resulting in fewer human foodborne illnesses. Critics of the final USDA

rule, including worker health and safety advocacy group Public Citizen, are questioning the veracity of that claim.

"For more than a decade, USDA whistleblowers have warned that workers cannot identify fecal matter and diseases on hogs under faster line speeds. Eliminating line speed maximums puts consumers at further risk," said Shanna Devine of the Washington, D.C.-based organization.

Also under the NSIS, FSIS will shift agency resources to allow up to two offline verification inspectors per shift, while reducing the number of online inspectors to a maximum of three per line per shift.

Another change involves requiring plant personnel to sort and remove unfit animals before antemortem inspection by FSIS inspectors, and to trim and identify defects on carcasses before postmortem inspection. FSIS will continue, however, to conduct 100 percent inspection of animals before slaughter and 100 percent carcass-by-carcass inspection, as mandated by Congress.

FSIS inspectors will retain the authority to stop or slow a production line as necessary to ensure food safety and inspection standards are adhered to under the final rule, which has gained the approval and support of the North American Meat Institute (NAMI), the National Pork Producers Council (NPPC), and other animal agriculture groups.

"The NSIS will allow plants who choose to participate an opportunity for food safety innovation, a benefit to consumers and our industry at large," said NAMI President and CEO Julie Anna Potts. "Under both the new and existing systems, our

members' highest priorities are to provide safe products to the public and ensure the workforce on which they depend is also safe."

NPPC President David Herring praised USDA for introducing an inspection system that incentivizes investment in new technologies. "The U.S. pork production system is the envy of the world because we continuously adopt new practices and technologies, while enhancing safety, quality, and consistency. The new inspection system codifies the advancements we have made into law, reflecting a 21st century industry."

FSIS and industry assurances are not mollifying food safety advocates such as Wenonah Hauter, Food and Water Watch executive director. Her Washington-based group says there is no doubt faster line speeds and less inspection equals more food contamination.

"We already know from the privatization of poultry plant inspection that relinquishing control over food safety to industry is bad for public health," she said. "Trump's USDA is clearly prioritizing the meat industry's interests against the will of the American people, and in doing so, is wreaking havoc on public health."

Devine called the new inspection system both anti-consumer and anti-worker. "Swine processing workers, many of whom are (people) of color or are immigrants, already face some of the highest workplace injury rates in the country. USDA's action will put them at even greater risk of repetitive stress injuries, lacerations and amputations," said Devine.

USDA pointed out the new inspection system is the result of years of controlled study ushered in, as Perdue stated, in the 1990s with revised

Hazard Analysis and Critical Control Point (HACCP) plans for pork processors. Guided by the new HACCP principles, the NSIS launched a study of slaughter inspections in 20 young chicken, five young turkey, and five market hog establishments on a waiver basis.

Pointing to results of that more than two-decade pilot project, Perdue, the FSIS, and pork industry advocates are united in their belief that the new rules will, despite critics' claims, increase food and consumer safety while maintaining workplace safety.

"The U.S. industry has long been a global leader in offering the highest-quality, safest, and most affordable pork to consumers here at home and abroad," said Herring. "We are proud of our record and welcome this program to further modernize our production process."

The National Assoc. of Federal Veterinarians also stands in support of the NSIS. "The NSIS is a major step forward in improving the slaughter inspection systems of the U.S. to provide safe food to the public," it stated in a letter defending the rule to the *Washington Post*, which reported in July that members of Congress and 35 other organizations had raised concerns about NSIS.

The U.S. House is considering legislation to delay implementation of the NSIS, according to various news sources.

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Best of Lee Pitts: Increasingly tougher to just 'keep it simple'

Why is it in conversation with one's horse or one's dog we use simple, one syllable words like "come", "sit" or "speak?" But when we talk to fellow human beings we feel compelled to use multi-syllable idioms, formal appellation, extended discourse, locution and palaver that none of us understand? (Like I just did).



It's THE PITTS By Lee Pitts

For example, on a delayed plane trip recently we were offered "a complimentary beverage service." We'd have been just as thrilled if the stewardess had simply said, "Free drinks!" When the plane ride got so bumpy my "complimentary beverage" spilled itself in my lap the pilot said that we were experiencing "some mi-

nor turbulence." Maybe he was... I was being tossed around like a salad and wasn't enjoying the unruly and violent tempestuousness one bit. It's not just those folks with their heads in the air who use big words... it is all of us. On the plane that day I read a realtor magazine that had been left behind by the previous occupant of my seat. It urged realtors to watch their language. Instead of using the word "commission" realtors were urged to refer to their share as a "professional fee." It seems that the word "price" is a real no-no and the words "total investment" can make a \$5,000 per month mortgage payment sound much better.

Bloated bureaucrats also use bloated

words. A recent Congressional report on the defense budget seemed to be written in code. Dead people were referred to as "collateral damage," bullets were "kinetic energy penetrators," an invasion was a "pre-dawn vertical insertion" and a bomb was referred to as a "Peacemaker." That to me is a counterfactual proposal (bald faced lie).

Recently my wife received a postcard in the mail from her doctor advising her that it was time for her "comprehensive physiological and multiphasic health screening." I guess that makes it easier for the doctor to charge \$500 an hour. When she climbed the vertical access facility (stairs) to the doctor's office she found that the furniture had been removed to facilitate "office landscaping." And they weren't just talking about the placement of plants.

I would have thought that the plain speaking livestock industry would have avoided such snobbishness but just the other day I heard a slaughterhouse referred to as a "destructuring facility." I suppose it was for upwardly mobile bovines.

I shouldn't cast stones, after all, the writing profession seems to control the market on gobbledygook. I was asked recently by a magazine to

"generate some text for text processing analysis." I wonder if it pays the same as just plain writing?

There are reasons why people use fat words when skinny ones would do. It makes them feel superior and is much more profitable. You wouldn't think of paying \$15 for a plate of noodles but call it "fettucine" and it sounds like a "total investment." The same is true with coffee, which I have never liked. I tried to tell this to a friend recently, explaining that I didn't really like the taste of coffee.

"Ah, but this is not coffee," he said with a snobbish tone. "This is cappuccino."

So I took a sip, savored the unique nutty taste and then spit it out. It tasted just like coffee to me.

In talking or writing I always try to remember just one rudimentary principle. It is "KISS." It stands for "Keep It Simple Stupid."

The views and opinions expressed in this column are those of the author and not necessarily those of Farm World. Readers may log on to www.LeePittsbooks.com to order any of Lee Pitts' books. Those with questions or comments for Lee may write to him in care of this publication.

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NOTE: This is only a sale notice. Details and Pictures will be Posted Daily Through Sept. 25th as Equipment is Consigned. This is a guide only, please inspect pieces personally to insure accuracy of advertising. All pieces sold as-is, where-is.

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TRACTORS: JD 4640 (6721 hrs., 3 Remotes, Quad Range, Hub Mount Duals, 480/80R42 @ 90%), 1991 Ford-Versatile 876 4x4 (6530 hrs. and only 600 on new short block, 18-4-42 Tires), IH FarmAll 460 Tractor w/ Loader, Hay Forks Only, 1954 JD 60, 1937 McCormick-Deering IH FarmAll F-12 w/ Fld. Cult., New Tires, Original Manuals, 1970's Kubota L260 Diesel (w/Manuals, 3000+ hrs.), JD 4640 (5890 hrs., T-Rail Duals, Rear 18.4Rx38, Front 14L-16.1SL), JD 3010 Wheatland (2702 hrs., 18.4 x 30 Rear Tires, 7.50x16 Front Tires, Standard Draw Bar, One Hydraulic Remote, New Batteries, Tool Box, 540 PTO), IH FarmAll 966 (6077 Hrs), IH 340 (4644 Hrs.), Allis-Chalmers Tractor w/ Loader, Ford 4400 Industrial.

TILLAGE: 28' Case IH Tiger Mate II Fld. Cult. w/5-Bar Harrow & Hitch, 2012 J&M TF212 30' Rolling Basket, IH 6-Bottom Plow, JD 2800 Moldboard Plow, JD A1450 5-Bottom Plow, 32' Fuerst Pull-Type Harrow Field Finisher, IH 720 6-Bottom Plow, 27' JD 960 Fld. Cult., 2013 28' Unverferth Rolling Basket, Dearborn 2-Bottom Plow, 42' Brillion Packer, 30' JD 960 S-Tine Shank 5-Bar Spike Harrow, 20' Case IH 496 Rockflex Disc, White 445 Disc Chisel (6-Shank, 4-Rippers), DMI 3-Point 5 Shank Ripper (Model ET5), JD 724 Mulch Finisher (25'), IH 490 Disc, JD 812 3-Bottom Plow (3x16"), 4411 Sunflower 5-Shank Ripper, 33' Sunflower 6432 Finish Tool, 3-Bottom Plow, DMI Crumbler, TYE Vertical Tillage Tool, JD 2800 8-Bottom Plow.

PLANTERS & PARTS: 2009 Kinze 3650 Planter (12/24 w/Fert. & Single Disk Openers, Single Row Boxes), New Idea 624 w/6 Bean Units & 4 Corn Meters, McCormick Grain Drill, JD 1760 12-Row Planter (30' w/Liquid Fert., Row Cleaners, JD 250 Monitor), JD Grain Drill, (24) XP-1770NT Planter Units (Ground-Driven Fertilizer Pump, Wiring Harnesses, (2) Hydraulic Driven Motors), JD 6-Row 3-Pt. 7000 Planter (monitor, Corn & Bean Meters, Brand New Offset Closing Wheels), JD 7000 12-Row Front-Fold w/Fert. & Insecticide (No-Till Coulters, 2-pt. Hitch).

COMBINES & HEADS: JD 9600 Combine (2092 hrs.), 2011 Case IH 3206 Corn Head, JD 930F Platform on a Killbros UT130 Cart, JD 693 Poly on Unverferth HT25 Cart, IH 863 6-Row Corn Head.

GRAIN HANDLING & WAGONS: Killbros 350 on Gehl 806 Gear, 14' Sudenga Sweep Auger, Chain Drag Conveyor, Mayrath 10x71 Auger, Gehl 95 Feed Grinder, Little Augie "Knight" Auger Feed Wagon, (3) J&M Gravity Wagons, (2) J&M Gravity Wagons, 35' Brandt Belt Conveyor, Killbros 590 Grain Cart, (3) Gravity Wagons, 6' Feed Bin, 9' Grain Holding Bin, Killbros 590 Grain Cart, Seed Conveyor, (2) Parker Gravity Wagons w/Augers on Killbros Gears, (2) Killbros 350 Gravity Wagons w/Seed Augers, (2) J&M 350-20 Gravity Wagons on 13-Ton Gears, Killbros 385, Killbros 375 on JD 1075 Gear, (2) Seed Corn Wagons.

HAY EQUIPMENT: Hay Wagons & Running Gears, McCormick Int'l. Hay Rake, Bale Spear, 3 Pt. Hay Forks, Vicon RP1510 Round Baler, Allis-Chalmers Sickle Bar Mower.

TRUCKS & VEHICLES: 2014 Kenworth T800 Conventional w/Sleeper (MX13 Paccar Engine, 485 hp, 13200# Front Axle, 13-sp Transmission, 248" Wheel Base, Like New Rubber, 570289 Actual Miles), 1979 Ford LT800 Truck w/20' Aluminum Omaha Dump Bed (Air Brakes/3208 CAT Diesel/Manual/95% Rubber), 2006 Ford F350 Super Duty Service Truck (6.0 Diesel, 2-W/D, 155119 Miles), 2003 Int'l. 3800 Blue Bird DT466E School Bus (Automatic, 7.6 Turbo Charged Diesel, 22 Bench Seats, Odometer Reads 121214, Clean Inside & Out), 2004 Int'l. CE300 DT466 School Bus (Automatic, 7.6 Liter Diesel, Air Brakes, 22 Bench Seats, Odometer Reads 95343, Clean Inside & Out), 2003 International 9200 Semi (471,781 Miles), 2004 International 9200 Semi (276,123 Miles) 1988 Volvo White Aero Semi (548,281 Miles, Very Clean), 2000 Freightliner Conv. FLD120 Semi.

TRAILERS: 2004 JKM Tri-Axle 21,000# Gooseneck, 1981 SNB Utility Trailer, Re-Built Flatbed Trailer, 1991 24' Gooseneck Trailer, 1974 Trailmobile Hopper Bottom, 1993 Agri-Trader 30' Hopper, 1987 Gooseneck Livestock w/20' Bed, 16' Circle Z Tandem Axle Bumper-Pull Livestock Trl.

HEAVY EQUIPMENT: JD 350C Crawler Dozer, 3-Pt. Hitch Backhoe Attachment, 6' Waldon Pull-Type Road Broom.

MOWERS & BLADES: 7' King Kutter Rotary, 60" Bush Hog, 4' Land Pride Rear Mount Mower, 5' King Kutter Finish Mower, JD 127 Rotary Cutter (3 Pt. 5'), Ford Rotary Cutter (3 Pt. 5'), Independent Mfg. 7' 3 Pt. Grader Blade, 3 Pt. Grader Blade, 5' Bush Hog Rotary Cutter, 6' Finish Mower.

LIVESTOCK: Hay Feeder, (8) Hog Panels, Hog Waterer, Hog Feeder, (2) Concrete Cattle Guards, (4) Steel Cattle Guards, Gehl 100 Feed Grinder.

LAWN & GARDEN: JD 525F Zero-Turn Riding Mower, 2008 JD 737 O-Turn Mower (560 hrs.), AMF Harley-Davidson (Gas) Golf Cart, 3-point Wood Splitter, Log Grapple, Simplicity Snow Blower, Mow-N-Vac Lawn Sweep, Trac-Vac w/Attachments, (2) Garden Tillers, Steel Yard Cart w/ New Tires, 62" JD Deck of JD485, Allis-Chalmers Post Hole Auger, JD L130 Riding Mower, Simplicity "Broadmoor" Riding Mower, Simplicity Snow Thrower.

MISC.: 14'x28' Building, Antique Ear Corn Slicer, Antique "The Clipper" Grain Separator, (11) 6' Round Fence Posts, Case Running Gears, Great Bend M110 Loader, Platform Scales w/ Weights, (32) Press Wheels (off of JD 16 Row 1770NT), Radiator (out of 2012 JD 9770 Combine), Electrical Box (6" Tx6.5" Dx18" W), Johnson Tandem Axle Tile Stringer (Yellow), Suzuki DT175 Outboard Boat Motor, (1) 250 Gallon LP Tank, (1) 500 Gallon LP Tank, Single Axle Dual Wheel Semi Trailer Dolly, 1000-Gallon Fuel Tank w/12-Volt Pump on Manure Spreader Gear, Westendorf TA-28 Loader & Brackets, Allis-Chalmers D-15 Shop Manual & Parts Catalog, 500-Gallon Fuel Tank w/Pump on JD Gear, Pull-Type Sprayer for Fence Rows, See Auctioning for Tires, Rims, Tools and Smalls.

NOTE: Sale will be held, rain or shine with restrooms available on site. Concessions will be available on-site also. NOTE: Cripe's Auction Service is not responsible for lost, stolen, or damaged property. Consignors are responsible for insurance coverage on any consigned equipment.

TERMS OF SALE: Cash or Check only with proper ID. ALL out-of-state checks require a letter of guaranteed funds from your bank-NO EXCEPTIONS. Not responsible for accidents or damage to property after sold. Announcements made day of sale take precedence over any printed material. Not responsible for equipment no-shows. **TITLE WORK:** Will NOT be done on sale day, make arrangements with Auctioneer or clerk to set up a day & time to do so. A \$25 title work fee will be charged to the BUYER for EACH titled vehicle purchased, due at check-out.

SALES TAX: Sales tax exempt buyers MUST have a CURRENT exemption certificate on file in our office day of the sale. NO EXCEPTIONS. We are required by the state to have this form on file. Forms will be available for you to complete when you register for your bidder number. Please have your tax ID# available. 7% Sales Tax will be added to your purchase if this form is not on file or if you are a NON-Tax exempt buyer.

NOTE: ALL SOLD EQUIPMENT MUST BE REMOVED FROM OUR LOT WITHIN 14 DAYS OF THE AUCTION. A FEE OF \$25 PER DAY PER ITEM WILL BE ENFORCED.

NOTE: No Buyer's Premium Charge - EVER • NOT RESPONSIBLE FOR ACCIDENTS

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ONLINE PUBLIC AUCTION – BY COURT ORDER

ABSOLUTE AUCTION-NO MINIMUMS OR RESERVES

6055 MCCLURE ROAD, MARTINSVILLE, INDIANA 46151

SALE BEGINS Monday, SEPTEMBER 9, 11:00 AM CST

SALE STARTS ENDING Wednesday, OCTOBER 9, 10:00 AM CST

INSPECTION: Tuesday, OCTOBER 8, 10:00 AM-4:00 PM EST

REMOVAL: OCTOBER 15 & 16, 9:00 AM-3:00 PM

FEATURING

(2) 2013 BWS Easy Load Model 35-Ton Drop Deck Trailers.
 (1) 2014 (2) 2012 & (1) 2007 Wilson Pacesetter Model DWH-501 Hopper Bottom Trailers, (2) Frameless Dump Trailers, (5) Semi Tractors – 1996 FLD, 1995 Int. Eagle, 1994 Western Star, 1991 Kenworth T600, 1990 White/GM.

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Corteva commits \$90,000 to helping feed Indiana's hungry

By EMMA HOPKINS-O'BRIEN
Indiana Correspondent

INDIANAPOLIS, Ind. — Sept. 12 was Hunger Action Day, and to celebrate, Gleaners Food Bank of Indiana hosted a press conference on Monument Circle to announce their new strategic plan and accept a gift of \$90,000 from Corteva Agriscience to implement the plan.

President and CEO of Gleaners, John Elliot, said the new strategic plan calls for the distribution of 100 million pounds of food annually, 2.5 times the current amount.

"As community leaders, we can, and we must resolve the interconnected challenges that are simultaneously faced by the families that we serve," Elliot said. "Especially that urgent convergence of hunger and health."

He called the 40 percent food waste rate and 15 percent food insecurity in the country "a supply chain opportunity". By 2023, Gleaners plans on 80 percent of the food it distributes to be fresh produce, lean proteins, low-fat dairy and whole grains. These goals may sound insurmountable, but Gleaners already has a record of beating seemingly impossible goals.

"In 2016, we provided 2 and a half meals with every dollar donated," Elliot said. "Through significant investments in efficiency and hard work by the operations team and others — we now do four meals with every dollar that's shared with us. That's a 60 percent efficiency improvement in two years."

In 2023, the food bank plans to lower the cost of one of their meals further — to 13 cents. Currently, Gleaners manages a regional co-op that now distributes 14 million pounds of food across nine states in collaboration with other foodbanks. Corteva pledged its \$90,000 gift in support of expanding that co-op. Corteva's senior vice president of enterprise operations, Susan Lewis, said the organization's passion is enabling producers in the 140 countries Corteva in which it does business.

"It's enriching the lives of those who produce — farmers and ranchers — all of the folks involved in producing — and the consumers and ensuring progress for generations to come that we are passionate about," she said. "We know you can't get generations unless you are working continuously on making sure people have food security today, and more employees can get behind that."

Corteva is involved in more than 50 charitable organizations just in Indianapolis, but it also participates with foodbanks all over the country, including Johnson, Iowa, Williamton, Delaware, Michigan, Georgia, and other places. Its donation to Gleaners should supply 1.1 million pounds of produce the region's hungry.

"We are so delighted to lead this challenge gift and that we support the expansion of the Indiana produce co-op," Lewis said.

A company used to grand challenges in line with feeding the growing popu-

(continued on page 9B)



GLEANERS FOOD BANK President and CEO John Elliott speaks on the food bank's new goals on Hunger Action Day, at Monument Circle in downtown Indianapolis. (Emma Hopkins-O'Brien photo)

TOBIAS AUCTION SERVICE PERSONAL PROPERTY

SATURDAY, SEPTEMBER 28th, 10:00 AM

5436 SOUTH U.S. 31, CROTHERSVILLE, IN 47229

Lawrence Toppe has commissioned Tobias Auction to sell the following personal property.

TRACTORS/EQUIPMENT: Oliver Super 55 excellent condition, MX 4700 Kubota with loader four-wheel drive 6ft bucket 1 set of rear remotes 221 hours, Bradco 652 trencher attachment for skid steer, Woods 8400 3-point finish mower, Bradco quick attach pallet forks, Land Pride 6ft box blade, Oliver Superior manure spreader (good condition), Dearborn 6ft 3-point grader blade, 3-point pallet forks, 14ft X 7ft dump wagon with side boards, Worksaver 3-point posthole auger 12in auger, 55-gal 3-point drum sprayer, 7ft tooth bar, 10ft boom pole, 6ft 3-point rotary cutter, 3-point seeder.

CAR: 2011 Ford Fusion 4 door (50,000).

TOOLS: Craftsman 60-gal air compressor, oil drum rack, Spectra LL 5500 Precision laser transit, Agatec GAT 220 laser transit, Husqvarna 353 chain saw 20in bar, Echo CS 6700 chain saw 20in bar, 5000-pound air jack, "Jenny" steam Jenny, Farm King torpedo heater, 220-volt portable air compressor, engine hoist, cutting torch with cart, floor jack, Dayton 10-ton Port-A-Pow-

er, King 16-speed drill press, 30-ton shop press, Wilton shop vise, bench grinder, roll-around cart, Lincoln AC/DC arc welder, Ingersoll Rand T-30 220-volt air compressor, bottle jacks, Dayton gas shop heater, Goodall battery tester, Associated battery charger, sockets, wrenches, drills, 3/4 inch drive socket set, 3/4 inch Black & Decker air impact, DeWALT battery 18-volt grease gun, Hobart welding hood, Jackson welding hood, log chains, boomers, cables, extension ladders, log tongs, jack stands, etc.

HOUSEHOLD: Round dining table with 5 chairs, rolltop desk, drop secretary cabinet, (2) end tables, couch, (2) swivel rockers, (2) coffee tables, Keller china hutch, lamps, full-size bed, chest, five-drawer chest of drawers and dresser, nightstand, full-size Jenny Lind bed, electric heater.

MISCELLANEOUS: (2) large fans, bolts, nuts, lots of Caterpillar filters, Heil fuel oil furnace, 15in saddle, Beam scale, (2) toolboxes for truck, 38in woven wire, (2) 300-gallon fuel tanks on stands, harness racing cart, 100-gallon wet kit tank.

AUCTIONEER'S NOTE: Mr. Toppe ran an excavating business for years throughout Southern Indiana. This is a quality sale. Come check it out!

TERMS: Cash or good check with photo ID. Everything "Sold As-Is, Where-Is". **Announcements day of auction take precedence over printed material.**



Bob Tobias
IN AU1050083
KY RP3598
(812) 820-3928
(812) 794-4671

BOWMAN TRUST AUCTION SAT., Sept. 28 - 10 AM

15159 Hoover Rd., HAGERSTOWN, IN 47346



ANTIQUE TRACTORS

- 1935 AC "WC" — Flat Grill (Sq. Grill) SN#12528;
- 1940 AC "WC", Round Grill, Styled SN93755;
- 1938 AC "UC" 39.5 H.P. - SN#3972;
- 1938 AC "B" - SN#B2609;
- 1955 WD-45 - SN#199609

SUV & ZERO TURN MOWER: 2008 Toyota Rav-4 w/164,087 miles, New Tires -- Grasshopper 727 K2 w/61" deck - SN#5521125 -- 15.5 Craftsman Riding Mower -- Winchester Model 190, 22 LR

- 2-RING Country AUCTION -

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AC31000162

HOOSIER OUTDOOR POWER CONSIGNMENT AUCTION

KNIGHTSTOWN, INDIANA
SATURDAY, OCTOBER 5

WE ARE STILL TAKING CONSIGNMENTS

Combine: Case IH 1640 with newer sieve and chaffer. Case IH 1020 grain head, Case IH 1063 6RN corn head.

Tractors: Oliver 88 with new tires, Farmall M with new tires, AC 620 (Needs a carburetor).

Trucks: Three 2007 Dodge diesel 3500 four-door trucks with service bodies. All have high miles. One is not running. 1989 IH 9700 semi tractor (nice), 13-speed truck transmission out of a GM truck.

Lawn Mowers: John Deere 425 60" deck, hydraulic blade and wheel weights for the JD 425, Dixie Chopper 60" (Motor problem), Pro Star 60" zero turn mower (hydro problem), Cub Cadet 2166 lawn tractor (runs but needs work), walk-behind string trimmer, several push mowers and string trimmers.

Misc Ag: Cattle trailer, 7 - 18.4R46 tractor tires, 2 - 14.9R34 tires, 23.1-26 combine tire on a wheel, log splitter, drainage tile, Aermotor windmill, windmill tower.

Parts: Rear side shields for a IH '66 series tractor, JD 2630 or 2640 clutch, Farmall H radiator, IH cylinders.

Farm Store Closeout: Lots of Key bib overalls, jeans, coats, and coveralls, shelving units, manuals, some Tisco parts including three point and PTO, lawn mower parts, tools.

Contact Neal Hall at 317-500-0098 or
Mark Tompkins at 765-571-0627 for information

PUBLIC AUCTION

Court Ordered (Cause 24C01-1507-ES-0488)

151-ACRES OF MOSTLY VACANT LAND

5 1/2 miles East of BROOKVILLE, INDIANA

Located in Sections 36 (T9N), & 1 (T8N) in Brookville Township - Franklin Co., IN

Offered in 10 Parcels - from 2.4 to 48.7 Acres Each

Auction will be held at 7006 Whitcomb Road, Brookville, IN

SATURDAY, OCTOBER 19 - 10:00 AM

Tract # 1 - Approximately 3.1 acres of vacant land (mostly wooded) w/frontage along Whitcomb Road.

Tract # 2 - Approx. 3.0 acres of vacant land (mostly wooded) w/frontage along Whitcomb Road.

Tract # 3 - Approx. 28.8 acres of vacant land (currently mostly tillable) w/frontage along Whitcomb Road.

Tract # 4 - Approx. 2.4 acres of mostly wooded land w/frontage along Whitcomb Road and access along a shared private driveway.

Tract # 5 - Approx. 3.4 acres of vacant land (mostly wooded) w/frontage along Whitcomb Road and access along a shared private driveway.

Tract # 6 - Approx. 18.9 acres of vacant land (currently mostly tillable) w/frontage along Whitcomb Road and access along a shared private driveway.

Tract # 7 - Approx. 29.2 acres of vacant wooded land w/frontage along Whitcomb Road.

Tract # 8 - Approx. 48.7 acres of vacant wooded land w/access along a shared private driveway.

Tract # 9 - Approx. 8.1 acres of vacant land (currently mostly tillable) w/access along a shared private driveway.

Tract # 10 - Approx. 5.1 acres of mostly cleared land (This was the old homestead - which still has a metal grain bin and some older farm buildings) w/access along a shared private driveway.

Terms & Conditions listed on the information sheet listed online.

Open House: Sunday, October 6 - 1-3 PM

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Call Dave White for more information - 765-265-3883

ESTATE OF THOMAS REUSS - OWNER

Amber McMillin Orozoco - Court Ordered Personal Representative
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Ag groups, farmers backing Green New Deal to Congress

By JORDAN STRICKLER
Kentucky Correspondent

WASHINGTON, D.C. — A group of 10,000 farmers and ranchers have come together in support of the Green New Deal (GND) — on Sept. 18, representatives from U.S. Farmers and Ranchers for a Green New Deal presented Congress with a letter signed by more than 500 of those individuals and more than 50 groups.

“For far too long, corporate executives and politicians have divided us. They’ve told us that environmentalists and farmers can’t work together. Well, I’m here today with a few friends

behind me to say, ‘That is history,’” Sunrise Movement’s Garrett Blad said. Sunrise is one of the organizations at the lead of the GND’s charge.

Presented in February by Democratic Sen. Ed Markey of Massachusetts and Rep. Alexandria Ocasio-Cortez of New York, the GND was meant to kick-start broad discussions on how the United States will both mitigate and adapt to climate change. It calls for achieving global net-zero global emissions by 2050 and for reducing pollution and greenhouse gasses created by agriculture by “as much as is technologically feasible.”

Democratic Reps. Chellie Pingree
(continued on page 16B)

Corteva commits ...

(continued from page 8B)

lation, she said Corteva also wants to make a difference now.

“We have all these things to do, but how can we make an impact today?” Lewis said. “Actually being able to do it today means we’re actually able to provide tomatoes today — we’re growing tomatoes in the season, we’re growing corn and soybeans which are high in protein, we’re growing many other fruits and vegetables in our gardens and being able to supply them right away — the day they are ready to harvest.”

Elliot noted that building local strategies by county, becoming a trusted and caring poverty-relief partner and assisting those who are ready to move to a place of food-security for themselves and their families also factors into their new strategic plan.

“In fiscal 2018, we distributed 28 million meals, up eight percent, but

that still only got us to 42.7 percent of that food gap,” Elliot said. “Which means we haven’t done half our work yet. In fact, statewide, the missed meals are still 158 million per year. That’s not acceptable, and that is the reason for today’s call for action. Hunger Action Day is an event in the future I hope we don’t need to have. But we’re not there yet.”

For the sake of their community, Lewis said Corteva employees understand that food security can touch close to home, which is why they are so passionate about this partnership.

“We exist within our communities — we live, work and play and build together in our communities, and we know food is the most basic human need, and really the engine of light and a true prerequisite of progress,” Lewis said.

ABSOLUTE LAND AUCTION

Saturday, October 5th, 2019 @ 10:00 AM

STATE ROUTE 80 West, Mayfield, KY 42066



271.65
ACRES
IN 7 TRACTS & COMBINATIONS

Between Fancy Farm & Mayfield



The Mary Patsy & Late Robert Elliott Farms

REAL ESTATE TRACTS:

Tract 1:	13.28 Acres
Tract 2:	10.63 Acres
Tract 3:	15.18 Acres
Tract 4:	60'X80' Equipment Shed, 44'X66' Shop Building, 60'X80' Quonset Hut Steel Building, 5 Grain Bin Facility, on 2.42 Acres
Tract 5:	43.83 Acres
Tract 6:	56.08 Acres
Tract 7:	130.28 Acres

Directions From Fancy Farm: Take HWY 80 4.5 Miles to Farm. From Mayfield: Take HWY 80 West 3 Miles to the Farm. Signs Posted!

257.34
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WONDERFUL
BUILDING SITES!

14.62 Acres in CRP Annual Payment of \$1,355.00 contract until Sept. 30, 2020.

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QUALITY FARMLAND • GRAIN SYSTEM • FERTILIZER AND EQUIPMENT STORAGE • IN A COMPETITIVE FARMING AREA
Contact: Jim Clark 765.659.4841 or Charles McCarty 812.480.9560 or Todd Litten 812.327.2466 or Sam Clark 317.442.0251

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Indiana Aglime Quality Report 2019-2020

County	Producer Member	Contact	Sample	Sieve Analysis (Mesh Size)			CCE NV%	Ca%	Mg%	RVN%
				#8	#60	#100				
Adams	US AGGREGATES Linn Grove - Bluffton, IN	Kari Reynolds (765) 220-5579 kari.reynolds@usagg.com		96	26	22	102.6	21.2	11.8	62.5
	US AGGREGATES Pleasant Mills - Decatur, IN	Kari Reynolds (765) 220-5579 kari.reynolds@usagg.com		90	30	24	106.8	21.9	12.8	63.7
Allen	HANSON AGGREGATES MIDWEST Ardmore Quarry - Fort Wayne, IN	Kevin Cross (260) 615-3247 kevin.cross@lehighhanson.com		99	89	79	101.7	21.3	11.9	95.9
	STONE-STREET QUARRIES, INC. Poe Quarry - Hoagland, IN	Bill Silvers (260) 414-9013 billssq@frontier.com		100	99	95	97.6	20.5	11.2	97.1
Carroll	US AGGREGATES Delphi Plant - Delphi, IN	Ross Larimore (765) 413-7779 rlarimore@usagg.com		94	7	3	106.1	22.1	12.5	53.6
Cass	ENGINEERING AGGREGATES CORP. Logansport Plant - Logansport, IN	Darin Oliver (574) 753-5506 darino@engagg.com	Sample A	97	43	37	87.4	24.0	7.0	61.3
			Sample B	94	36	32	97.9	21.0	10.8	63.7
Clark	MULZER CRUSHED STONE, INC. Charlestown Plant - Charlestown, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com	Sample A	77	28	24	100.2	21.1	11.1	52.7
			Sample B	87	34	29	100.0	23.9	9.1	60.3
Crawford	MULZER CRUSHED STONE, INC. Cape Sandy Quarry - Leavenworth, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com		97	32	26	95.8	33.7	2.4	61.7
	MULZER CRUSHED STONE, INC. Temple Quarry - English, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com		97	32	22	95.9	38.1	0.4	61.7
	MULZER CRUSHED STONE, INC. Tower Quarry - Leavenworth, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com		95	39	32	96.1	34.0	2.3	64.6
Decatur	NEW POINT STONE COMPANY Harris City Quarry - Greensburg, IN	Steve Wanstrath (812) 852-4225 steve@newpointstone.com		97	43	38	91.8	26.8	5.2	64.0
	NEW POINT STONE COMPANY New Point Quarry - New Point, IN	Steve Wanstrath (812) 852-4225 steve@newpointstone.com		91	33	27	93.2	27.6	5.1	57.8
DeKalb	THE LEVY COMPANY Butler Mill Service - Butler, IN	Kurt Crowel (219) 406-1194 kcrowel@levyco.net	Sample A	100	38	18	106.7	35.4	3.5	73.6
			Sample B	100	42	32	101.0	32.3	3.8	71.8
			Sample C	100	36	20	108.6	34.5	3.7	74.1
Franklin	NEW POINT STONE COMPANY Derbyshire Quarry - Laurel, IN	Steve Wanstrath (812) 852-4225 steve@newpointstone.com	Sample A	98	40	32	94.3	19.8	10.2	64.9
			Sample B	90	43	39	87.0	23.9	5.9	58.2
Grant	IRVING MATERIALS, INC. Pipe Creek Jr. - Swayzee, IN	Mike Gross (765) 661-0312 mike.gross@irvmat.com		98	45	39	98.2	38.2	0.9	70.3
Hamilton	IRVING MATERIALS, INC. Stony Creek - Noblesville, IN	Mike Gross (765) 661-0312 mike.gross@irvmat.com		98	43	37	95.1	24.7	7.3	67.0
Harrison	MULZER CRUSHED STONE, INC. New Amsterdam Quarry - New Amsterdam, IN	Greg Hagedorn (812) 430-2516 greg.hagedorn@mulzer.com		98	38	32	98.5	29.1	5.4	67.1
Howard	MARTIN MARIETTA Kokomo Plant - Kokomo, IN	Brent Leininger (765) 459-3194 brent.leininger@martinmarietta.com		95	34	28	86.3	29.3	3.1	55.6
Huntington	IRVING MATERIALS, INC. Huntington Plant - Huntington, IN	Mike Gross (765) 661-0312 mike.gross@irvmat.com		100	41	35	100.6	20.8	11.8	70.9
Jay	US AGGREGATES Portland Plant - Portland, IN	Caleb Brown (317) 452-3959 caleb.brown@usagg.com		100	99	96	108.3	22.0	12.9	107.8
Jennings	HANSON AGGREGATES Hayden Quarry - Hayden, IN	Gary Huffman (812) 525-5172 gary.huffman@lehighhanson.com		74	28	24	94.2	31.6	3.1	48.2
Lake	BEEMSTERBOER AGGREGATES South Shore Plant - Gary, IN	Rich Droske (219) 746-8215 richard.d@beemcompanies.com		94	19	13	101.5	28.1	6.8	57.7
	PHOENIX SERVICES, LLC Port of Indiana - Portage, IN	Paul Overton (219) 787-0010 paul.overton@phxslag.com		70	16	11	95.5	28.0	6.8	40.7
	SOUTH LAKE STONE Hebron Plant - Hebron, IN	Derrick Norris (734) 255-6526 derrick.norris@southlakestone.com		99	47	38	100.3	20.9	11.5	73.7
Lawrence	US AGGREGATES Lowell Plant - Lowell, IN	John Masterson (317) 771-8599 jmasterson@usagg.com		69	17	14	107.8	22.0	12.8	46.3
	ROGERS GROUP, INC. Mitchell Crushed Stone - Mitchell, IN	Brent Baker (812) 849-3530 brent.baker@rogersgroupinc.com		90	35	28	96.1	36.9	1.0	59.8
	ROGERS GROUP, INC. Sieboldt Quarry - Springville, IN	Brent Baker (812) 849-3530 brent.baker@rogersgroupinc.com		65	21	17	93.2	36.2	0.9	40.0
Marion	HANSON AGGREGATES NORTH REGION Harding Street Quarry - Indianapolis, IN	Don Roadruck (317) 491-0681 don.roadruck@hanson.com	Sample A	95	37	32	91.8	29.1	3.7	60.4
			Sample B	93	34	28	97.4	34.9	1.4	61.6
	L&L BULK MATERIALS Kentucky Ave. - Indianapolis, IN	Mendel Shank (317) 889-1717 ext. 1 mendel@little-ton.com		99	49	46	92.6	21.6	9.3	68.5
Martin	INDIAN CREEK QUARRIES Williams, IN	Ed Swartzentruber (513) 702-5950 Ed@indiancreekquarries.com		94	31	25	93.6	33.6	2.2	58.5
Miami	HANSON AGGREGATES MIDWEST LLC Milner Quarry - Peru, IN	Cliff Lingerfelt (317) 473-1028 clingerfeldt@lehighhanson.com		94	41	37	104.2	21.6	11.9	70.4
Monroe	ROGERS GROUP, INC. Bloomington Plant - Bloomington, IN	Chris Hill (812) 320-5104 chris.hill@rogersgroupinc.com		100	56	28	96.8	38.3	0.6	75.4
Montgomery	PLANT TUFF, INC. Whitesville Mill Service - Crawfordsville, IN	Bill Webster (765) 918-5110 webster@levyco.net		98	28	17	96.0	25.8	5.9	60.5
Newton	ROGERS GROUP, INC. Newton County Stone - Kentland, IN	Adam Regich (765) 414-6845 adam.regich@rogersgroupinc.com	Sample A	87	23	18	104.3	21.5	12.4	57.1
			Sample B	86	17	14	105.3	21.7	12.6	54.5
Porter	PHOENIX SERVICES, LLC Port of Indiana - Portage, IN	Paul Overton (219) 787-0010 paul.overton@phxslag.com		81	22	14	92.5	27.5	7.1	48.0
Pulaski	HANSON MATERIAL SERVICE Francesville Plant - Francesville, IN	Josh Trader (219) 765-7151 josh.trader@lehighhanson.com		95	37	30	107.2	21.9	12.8	70.7
	US AGGREGATES Francesville Plant - Francesville, IN	John Masterson (317) 771-8599 jmasterson@usagg.com	Sample A	98	45	37	106.8	21.9	12.7	76.3
			Sample B	85	13	7	107.1	21.9	12.8	52.5
			Sample C	80	21	16	107.3	21.9	12.8	54.1
Putnam	HANSON AGGREGATES MIDWEST LLC Putnamville Quarry - Cloverdale, IN	Cliff Lingerfelt (317) 473-1028 clingerfeldt@lehighhanson.com		95	37	31	95.1	35.1	1.5	63.0
	MARTIN MARIETTA Cloverdale Quarry - Cloverdale, IN	Brent Leininger (765) 459-3194 brent.leininger@martinmarietta.com		97	43	33	92.3	37.3	0.4	64.5
	US AGGREGATES 243 Quarry - Cloverdale, IN	Dana Boyd (765) 653-4100 dboyd@usagg.com		85	31	27	93.7	27.4	5.7	54.3
Randolph	US AGGREGATES Ridgeville Plant - Ridgeville, IN	Kari Reynolds (765) 220-5579 kari.reynolds@usagg.com		84	29	24	106.5	21.4	12.0	60.1
Ripley	NEW POINT STONE COMPANY Napoleon Plant - Napoleon, IN	Steve Wanstrath (812) 852-4225 steve@newpointstone.com	Sample A	99	46	40	90.0	33.1	1.6	65.2
			Sample B	99	65	61	95.2	37.4	0.7	78.3
Rush	RUSH COUNTY STONE CO., INC. Milroy Plant - Milroy, IN	Bo Humphries (765) 629-2211 bo.humphries@rjnet.com	Sample A	75	30	27	101.6	23.2	10.1	53.0
			Sample B	77	27	24	93.0	27.6	5.2	48.2
Scott	HANSON AGGREGATES Scott County Quarry - Lexington, IN	Gary Huffman (812) 525-5172 gary.huffman@lehighhanson.com		96	37	32	95.5	30.2	3.8	63.4
Shelby	NEW POINT STONE COMPANY St. Paul Plant - St. Paul, IN	Steve Wanstrath (812) 852-4225 steve@newpointstone.com	Sample A	97	28	24	105.3	22.8	10.8	65.5
			Sample B	93	33	27	92.7	31.4	3.0	58.4
Wabash	WEST PLAINS MINING, LLC Kentner Creek Quarry - Wabash, IN	Kate Draper (260) 571-7054 kate.draper@westplainsmining.com		92	29	25	95.8	32.8	2.3	58.2
Wayne	BARRETT PAVING MATERIALS, INC. Richmond Plant - Richmond, IN	Mark Comer (937) 424-9111 mcomer@barrett paving.com	Sample A	100	99	98	99.6	23.8	8.9	99.0
			Sample B	100	48	42	96.6	23.6	8.6	71.4
			Sample C	97	34	28	99.0	24.0	8.8	65.1
White	HANSON MATERIAL SERVICE Plant #579 - Monon, IN	Josh Trader (219) 765-7151 josh.trader@lehighhanson.com		100	24	20	105.9	22.2	12.4	65.3
	US AGGREGATES Monon Plant - Monon, IN	Ross Larimore (765) 413-7779 rlarimore@usagg.com		81	16	7	105.9	22.1	12.5	51.0
Whitley	PLANT TUFF, INC. Columbia City Mill Services - Columbia City, IN	Kurt Crowel (219) 406-1194 kcrowel@levyco.net		85	48	37	109.1	31.8	6.1	72.5
Illinois - Cook	LEHIGH HANSON, INC. Thornton Quarry - Thornton, IL	Scott Malpasuto (765) 822-0254 scott.malpasuto@lehighhanson.com		93	30	24	103.3	21.3	12.3	63.4
Kentucky - Carroll	PHOENIX SERVICES, LLC Ghent, KY	Todd Kelly (540) 293-5421 todd@phxslag.com		100	86	70	108.9	34.2	6.9	101.2
Ohio - Fulton	THE LEVY COMPANY Fulton Mill Service - Delta, OH	Kurt Crowel (219) 406-1194 kcrowel@levyco.net		91	39	25	108.5	35.8	4.3	70.5

*Samples taken by The Aglime Council in 2019. Samples tested by Bowser-Morner Testing Laboratories, Dayton, OH, AASHTO/ISO 17025 Accredited Laboratory - USACE Validated



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Acidic soil decreases fertilizer effectiveness. Balance your soil pH with Indiana Aglime.

Soil Acidity	Percent Utilized			Fertilizer Wasted	Cost of Fertilizer Wasted
	Nitrogen	Phosphate	Potash		
Extremely Acid 4.5pH	30%	23%	33%	75%	\$125.84/ac
Very Strong Acid 5.0pH	53%	34%	52%	54%	\$90.61/ac
Strong Acid 5.5pH	77%	48%	77%	33%	\$55.37/ac
Medium Acid 6.0pH	89%	52%	100%	20%	\$33.56/ac
Neutral 7.0pH	100%	100%	100%	0%	\$0/ac

Based on a conservative application of 200N, 100P and 100K, \$167.79 per acre - July 2019 average pricing provided by DTN Progressive Farmer (dtnpf.com)



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Ohio native heads to Texas to try a win with his steaks

By **SUSAN MYKRANTZ**
Ohio Correspondent

WOOSTER, Ohio — Garrett Wirth has been grilling as long as he can remember; it was just one of the activities he enjoyed doing while growing up.

"I enjoy grilling just about anything you can think of, from the usual steaks, burgers, and ribs, to breakfast and cookies," said Wirth. "I haven't grilled any type of plant-based protein products, simply because they don't interest me very much."

He also enjoyed showing steers, hogs, and lambs as a Wayne County 4-H member and had a fair amount of success in the show ring — and that livestock experience is paying off now at the grill.

"Meat judging helped me to know the cuts of meat and what makes quality, marbling, color, and size," he explained.

He said the secret is starting with a high-quality meat product. "If you start with low quality, it will probably be low quality at the end," he pointed out. "That goes for everything from hot dogs to steaks."

Recently, he had success at the barbecue grill as the winner of the 1572 Roadhouse Bar-B-Que Ohio



State Steak Cook-off in Waynesville, which earned him a cash award and a trip to the world championship in Fort Worth, Texas, on Oct. 5.

"Winning the Ohio Steak Championship is probably my most memorable grilling experience so far," he mused.

Wirth said during the contest, everyone grills beef ribeye steaks that are provided by the organizers. "At around 10 a.m., everyone draws numbers to see the order of picking their steaks," he explained. "They are laid on table, and everyone picks their steaks. Each contestant gets to pick two steaks."

"You have until 2 or 2:30 to do whatever you want to do to your steak. By 2 to 2:30 the steaks need to be done and turned in for judging. They are judged on appearance, doneness, taste, texture, and overall impression. Steaks are supposed to be cooked to a perfect medium."

While Wirth will use a sauce or rub on his meats to make sure everything is seasoned, his first rule of successful grilling is the purchase of a good-quality instant-read meat thermometer.

"You can always add salt and pepper if it has no flavor, but if it's undercooked or overcooked, it's ruined," he said.

(continued on page 13B)

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GARRETT WIRTH (right), along with his team, celebrating a win in the cook-off; it includes Jason McNickles, his right-hand man, and Jaxson Wirth, young grillmaster in training. (Photos provided)

Ohio native heads to ... (continued from page 12B)

He offers other tips for budding grilling enthusiasts. "Whatever you are using to grill, learn it learn how it cooks," he advised. "Second, buy the best instant-read thermometer you can afford."

When it comes to selecting a grill, he said the first thing is to figure out what options suit you the best, and the second is to buy the highest-quality grill you can afford - because you really do get what you pay for. For Wirth, his grill of choice is a PK Classic.

"I use it because it's a steak-cooking machine," he noted. "It's cast aluminum, so it will never rust. The way it's built and designed, it really cooks. There are people still using models from the (19)50s."

For Wirth, grilling is a team sport, from his family who enjoy the results of his work at the grill to his good buddy Jason McNickles, who helps him with the cooking.

"I also want to say a special thanks

to the sponsors who help to make it possible: XL Pattern Shop, Lehman's, Kidron Town & Country, Meatheads Union, and Ugly Duck Extreme Sport-B-Grill have been very supportive."

Wirth's tips for perfect steak

- Take your favorite cut of beef out of the refrigerator and season it with your favorite steak rub, or just salt and pepper. Let it rest on the counter.

- Go light the grill; get the grates up to around 500 degrees.

- A 1-inch steak should cook about 3 minutes per side for medium-rare doneness. So, cook for 3 minutes, flip and baste with melted butter, then cook 3 more minutes. Start checking doneness at 2 minutes.

- When you reach your desired doneness, take off the grill and rest in tinfoil, basting with the melted butter one more time. Let rest, wrapped, for 5-10 minutes, then enjoy.

Cajun-inspired flavors easy to incorporate in your meal

Jambalaya is enjoyed in the bayou areas of the South and it's generally made with crawdad tails and lots of Cajun spices. Many Louisiana restaurants serve their jambalaya so wet that it's in a bowl and eaten like soup.

Crawdad tails are a little difficult to come by in this area, unless you're a kid who likes to wade barefoot in the creek in the summertime. I make my Midwest version of jambalaya using chicken breasts and skinless smoked sausage.

My version is also made thick enough to serve on a flat plate and can be eaten with a fork; however, if you do, you'll want to be sure to have some bread, too, so you can soak up the excellent spicy juices.

I make my own Cajun spice mix, which I've been changing and improving for many years. Because it might be manufactured, I won't be able to give you my recipe, which I also use to make blackened fish, spicy steaks, hot sausage, and a bunch of other goodies. Instead, just look for Cajun spices in your favorite market.



SKINNY COOKS CAN'T BE TRUSTED By Dave Kessler

Midwest Flat Plate Jambalaya

- Olive oil, butter, or margarine
- 3 cloves garlic, minced
- 4 boneless chicken breast halves
- 1 big onion, chopped
- 1 bell pepper, chopped
- 3 celery ribs, chopped
- Cajun spice mix
- 2 pound skinless smoked sausage, chopped
- Large can whole peeled tomatoes, seeds removed and juice strained
- 3 cups chicken stock
- 1-1/2 cups uncooked rice

Using olive oil, butter, or margarine, sauté the minced garlic. Cut the chicken into bite-size chunks and sauté in the garlic. Remove the chicken and set aside.

Add the chopped onion, bell pepper, celery ribs, and Cajun spices to the skillet. Sauté until the vegetables are soft and have taken on the color of the spices. Add the chopped sausage and return the chicken to the skillet.

Remove the seeds from the tomatoes and chop them. Strain seeds from the juice, as well. Add the tomatoes and juice to the skillet; stir through. Add the chicken stock and bring to a nice bubbling simmer; let simmer uncovered 20-30 minutes.

Add the uncooked rice to the skillet and let it cook and soak until tender in the juices there; or, you might choose to cook the rice separately and spoon the jambalaya over it to serve. Either way, you're gonna love this meal.

Readers with questions or comments for Dave Kessler may write to him in care of this publication.

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FRIDAY, OCTOBER 11, 2019 @ 9:30 AM
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House Ag hearing tackles farm bill, disaster aid funding issues

By RACHEL LANE
D.C. Correspondent

WASHINGTON, D.C. — During a week of floods across parts of the United States, members of Congress met to discuss disaster relief for agriculture.

The House Agriculture subcommittees on General Farm Commodities and Risk Management and Livestock and Foreign Agriculture co-hosted the hearing last Thursday. Topics from trade to implementation of the farm bill were discussed.

Communication with farmers seemed to be a key theme. The new Dairy Margin Coverage Program (DMC) has an equal number of signups as the previous year's enrollment, and an extra week has been added to sign up. The deadline is now Sept. 27, said Bill Northey, under secretary of Farm Production and Conservation with the USDA.

With the changes to the program, legislators wanted to know why signups weren't higher than about 60 percent of dairy farmers. Northey said the USDA has tried many ways to reach farmers,

from mailings to via farm organizations.

In southern Iowa, people were kayaking into their homes in the spring, but information about getting assistance to file claims about the flooding were also being mailed to those homes, said Rep. Cindy Axne (D-Iowa).

"We started that long road to recovery ... without government help," she said. Neighbors, farmers, churches, and other organizations worked together to make sure everyone had food and a place to sleep. "We need to do better providing streamline processes that can go into effect immediately after a disaster."

Legislators from Georgia had similar comments, with GOP Rep. Austin Scott questioning the speed at which financial relief could be made available. In 2018, Hurricane Michael caused billions in damage to farms, but it took almost a year for Congress to appropriate the money.

In 2018, there were natural disasters in Hawaii, California, the Carolinas, Washington, and more, he said. The farmers in those areas had to wait to get funding, and now part of the money for 2018 is being used to cover disas-

ters that happened in 2019.

At the same time, there is still money earmarked for disasters in 2017 that cannot be touched, and Scott would like to see it used for the more recent disasters.

When questioned, Northey said the data about the impact of the 2018 disasters Scott had were the most recent figures. The information is from November 2018, Scott countered, and isn't accurate.

"We can't take a year to respond to storm damage. It was local, Georgia loan programs that kept my people farming," he said.

Implementation and signup for 2018 farm bill programs has begun, Northey informed those at the hearing. When questioned, he said many USDA offices are understaffed, but do have about 90 percent staffing. The new programs have caused the understaffed offices some additional work, but USDA is working to fully staff each office. Training employees in those offices is also underway.

The Market Facilitation Program (MFP) is intended to assist farmers most directly harmed by retaliatory tar-

iffs imposed as a result of the administration's trade war. The expanded Wildfire and Hurricane Indemnity Program, or WHIP-Plus, will aid in rural recovery from natural disasters. And programs like Agriculture Loss Coverage (ARC), Price Loss Coverage (PLC), DMC, and other supports within Title I of the farm bill provide a risk management framework for farmers and ranchers.

Rep. Filemon Vela (D-Texas), chair of the Commodities and Risk Management Subcommittee, said he wants to make sure these programs are implemented in a fair way that quickly helps farmers.

Rep. Jim Costa (D-Calif.), chair of the Livestock and Foreign Agriculture Subcommittee, pointed out farmers want markets for their products. The MFP helps with income, but does not replace the \$2.3 billion in revenue farmers have lost since the trade war with China began.

"I fear this is becoming the new normal. If the administration can't conclude trade deals, we need to seriously consider what the future looks like for American farmers and ranchers," he said.

Ohio Cattlemen to kick off first Cattlemen's Academy Sept. 30

By DOUG GRAVES
Ohio Correspondent

COLUMBUS, Ohio — The Ohio Cattlemen's Assoc. (OCA) is launching a new producer education program this fall, called the Ohio Cattlemen's Academy.

"Recognizing the importance of serving our individual members across the state, the goal of the Cattlemen's Academy is to offer informative, hands-on learning experiences as part of a current a current OCA membership," said Kagney Collins,

director of education.

"Each year the program will focus on a different aspect of the cattle industry with a new meeting series that is important to producers in Ohio."

The OCA is a nonprofit membership organization that represents the business interests and way of life important to farm families that raise cattle. It serves as the voice and issues manager for all of Ohio's beef cattle business for nearly 60 county affiliates, and communicates through various publications and social media.

As its first series, the Academy will host calving clinics at multiple locations in conjunction with the Department of Animal Sciences at The Ohio State University. Various experts from OSU and the cattle industry will be on hand to instruct attendees and answer questions.

The first step in this four-topic series across the state will be the Calving Clinic on Sept. 30 in Noble County, at the Ohio Agricultural Research and Development Center in Caldwell. The meeting will begin at 6 p.m.

The clinics will be extremely helpful

and educational for attendees, and producers will learn a variety of things, such as how to determine calf presentations, calving assistance techniques, calving facilities design, nutritional management of the prepartum cow, and bull selection for calving ease.

According to Collins, this Academy is still in the planning stage. The topics for the remaining three clinics across the state are undecided at this time, but will be announced in the next few months.

The Cattlemen's Academy calving (continued on page 15B)

Lee County, Iowa LAND & PERSONAL PROPERTY AUCTION
FRI., OCT. 18TH @ 10 A.M. CST Auction Venue: Onsite at 2015 235th Ave., West Point, IA
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TRACT 2: 32.7± ACRES with about 24± acres cropland and 8± acres woodland. 40 ft. of owned frontage on Willow Grove Rd. Noland's Fork Creek on west end is good for fishing and canoeing. Some fence. Buy with Tracts 1 or 3 also.
TRACT 3: 10± ACRES with two story 1,961 sq. ft. farmhouse, 4 bedroom, 1 1/2 bath. Nice older woodwork and basement. 43' x 63' pole barn and 32' x 40' beam barn with 3 stalls and loft. Fenced. Generator hookup. Small stream. Great quiet place in country for everybody.

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AUCTION SITE: Golay Community Center, 1007 E. Main, Cambridge City. Located at the intersection of US 40 and State Hwy. 1 on the northwest corner.
PROPERTY LOCATION: 3796 Willow Grove Rd. 3 1/2 miles southwest of Centerville. From Centerville Rd. (Morton Ave.) and Hwy. 40 stoplight then 1/2 mile west on Hwy. 40 to McMinn Rd. then south to Willow Grove then right on Willow Grove Rd. Left at stop sign intersection of Colvin Rd. continue 2 miles on the right on Willow Grove.

INSPECTION DATES:
9am - 11am
 Sat., Sept. 28th
 Thurs., Oct. 10th
 Sat., Oct. 19th

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THURS., OCT. 10, 6 PM

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TRACTS 2 THRU 10 ON STRAIT CREEK ROAD

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TRACT #2: 22 acres with 14 acres tillable, balance in woods. Lots of frontage on Strait Creek and Baker Fork Creek.
TRACT #3: 11 acres with 10 acres tillable. Strait Creek and Baker Fork Creek frontage.
TRACT #4: 19th Century 3 BR, 2 bath home with 2 car garage and 60x60 barn, and 1 BR cottage situated on 7.5 acres.
TRACT #5: 103 acres heavily wooded with 13 acres of pasture, trail network, stream runs thru property.
TRACT #6: 85 acres heavily wooded, 12 acres of open land
TRACT #7: 7 acres with 5 acres tillable.
TRACT #8: 5 acres with 3 acres tillable, woods, Baker Fork Creek frontage.
TRACT #9: 53 acres with cottage, heavily wooded. Some open pasture.
TRACT #10: 61 acres heavily wooded with 16 acres tillable, pasture.

PREVIEW: SATURDAYS, SEPTEMBER 21, 28 & OCTOBER 5
FROM 9 A.M. TO 12 NOON - OTHER TIMES BY APPOINTMENT
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Marketers, farmers, retailers aim to promote Ohio produce

By DOUG GRAVES
Ohio Correspondent

DAYTON, Ohio — Only eight percent of what Ohioans eat is produced in the state.

That statistic, presented at the most recent Montgomery County Food Summit in Dayton, reveals a truth about the state's food system — although agriculture is Ohio's No. 1 industry, most of what is grown in the state is not consumed here.

But there are some farmers working to grow that figure, and some local nonprofits aiming to help them with it.

For Tecumseh Land Trust's (TLT) Executive Director Krista Magaw, helping farmers connect with their local markets is a way to boost their profit in a tough agricultural economy.

"Farmers get a mere nine to 10 percent of the value of their product, at best," she said. "That's not great."

Add to that the misery of this spring's planting dilemma. More than 1.5 million acres in Ohio remain unplanted and state farmers are expecting the worst crop production in recent history. Fifteen percent

of the Ohio's acres went unplanted and weather conditions sabotaged the plants that made it into the ground. Farmers simply had a late start for the planting season because of the more than 33 inches of rain that fell in southwest Ohio this year, 6.65 inches above average.

"This is a miserable year for farmers," Magaw said.

Many small and mid-scale growers are engaged in turning things around down the road, as are some of the retailers.

When the harvest of radishes, zucchini and sweet corn comes in at Buurma Farms in Willard, Ohio, every spring and summer, some of the state's retailers go the extra mile to let consumers know about the opportunity to buy local.

Many of the produce cartons have "From Ohio" boldly printed on them, or bear the familiar Ohio Proud logo, but sometimes the message is also reinforced in a graphically spectacular manner. Some retailers have gone so far as to provide a photo of family members working in the field over the produce being sold.

Ohio is well situated to supply most of the country with fresh summer produce,

but the state's farmers also have a long and proud history of bringing the fruits of their labor to local markets. Some Ohio shippers and retailers, such as Cincinnati-headquartered Kroger, have traditions going back decades of cooperating to encourage consumers to buy local produce.

"We've had great support from the retailers. Our best customers are the local ones," Buurma said.

The state commissioned a consumer survey recently and found 93 percent of the residents prefer to buy Ohio products over national brands, and 90 percent of those surveyed indicated they would even pay a few cents more for "made in Ohio."

Agribusinesses, farmers, producers, manufacturers and retailers help consumers identify locally made and grown products using the Ohio Proud logo.

"There are currently 430 partners in the Ohio Proud program, representing 78 of Ohio's 88 counties," says Ashley McDonald, Ohio Proud program administrator at the Ohio Department of Agriculture.

"Locally grown is of tremendous importance, especially over the past several years as consumers have become more interested and involved in learning about where their food comes from."

"The Ohio Proud program champions

products at least 50-percent raised, grown or processed in Ohio. We do in-store signage, promote customer identification of the Ohio Proud sticker when shopping at grocery stores and other local retailers, and encourage consumers to visit our interactive website to search for specific types of products, or for the companies in their community."

While Ohioans eat just eight percent of what is produced in the state, the rest of the nation is feasting on Ohio produce. The Buckeye State thanks to its location is positioned to ship a diversity of fresh fruits and vegetables to the rest of the country during the spring and summer harvest seasons. Ohio is home to more than 1,000 food processing companies and produces more than 200 commercial crops.

Its major commodities include apples, beans, cabbage, corn, cucumber, greens, lettuces, peppers, potatoes, root vegetables, squash and tomatoes.

"Ohio produce is unique in part due to the diversity of the types of growing, size of operations, and also the varying climate throughout the state," says Alex DiNovo, president and chief operating officer of DNO Produce in Columbus, Ohio. "Ohio has many traditional field growing operations, as well as greenhouse entities. The size of operations throughout the state varies from small family farms to large entities that ship far outside of the state's borders."

DNO is a wholesale operation and also customizes items from a 50,000-foot repack and fresh-cut facility using produce sourced from hundreds of growers in Ohio and around the world.

Ohio Cattlemen ... (continued from page 14B)

clinics are free for OCA members. The non-members fee is \$75 per family upon registration; the cost includes clinic attendance and an OCA membership. A meal will be provided for each participant, as well.

The clinic is limited to the first 100 registrants. For more information regarding the Academy or calving clinics, email Collins at kcollins@ohiocattle.org or call 614-873-6736.

The OCA was formed in 1951 and serves a membership of more than 2,200 families throughout Ohio and surrounding states.

PUBLIC AUCTION

The undersigned Representatives will sell at Public Auction from the CLIFFORD (SHAG) SHINOLT ESTATE located 8 miles southeast of Columbus, IN. From Hwy 31 take C.R. 475 S, east 1 mile or from Hwy 7 take Legal Tender Rd. southwest 1 mile to Railroad St., Elizabethtown, then east on Railroad St. to sale at

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Ag groups, farmers backing Green New Deal to congress ...

(Maine), Jim McGovern (Massachusetts), Earl Blumenauer (Oregon), and Debra Haaland (New Mexico) all spoke at the press conference.

"It makes all the sense in the world that farmers and ranchers support our Green New Deal resolution," said Haaland, a sponsor of the Climate Stewardship Act, the House version of a climate bill authored by Democratic presidential candidate Sen. Cory Booker that would provide incentives to farmers and ranchers to adopt more sustainable agricultural methods.

"At this point in my life, I'm for anything that reduces carbon and works toward a solution to climate change," said Marjie Shew, owner of Shew Family Farm, a Stockport, Ohio, cattle operation. "I'm not picky about the details at this point, because I don't see our country recognizing the problem at all."

Shew said farmers could be the key to reining in carbon emissions and that instead of being a part of the problem, they could be part of the solution, especially in current economic conditions.

"There are many large organizations, places like Apple and Google, that need to balance their emissions of carbon. Farmers can do that. No-till farmers can sequester carbon. They put more carbon into the soil than they put into the air," she explained.

"It would make sense to pay farmers to do this, and they are beginning to talk about that. There are a couple of companies now who are paying farmers to sequester carbon. At this point, farmers are needing income, and that would encourage a lot more regenerative agriculture than the exploitation of agriculture."

While the National Farmers Union (NFU) does not explicitly endorse the GND, its leaders did praise its attempts to battle climate change. "National Farmers Union is really encouraged by the fact that Congress is seriously talking about mitigating and adapting to climate change," said Hannah Packman, Digital Media Director, in an email.

"NFU was not directly involved with (the recent) rally, but we do support efforts to address climate change, particularly those that incentivize on-farm conservation practices that reduce greenhouse gas emissions and sequester carbon in the soil, and we will continue to urge Congress to give farmers and ranchers a seat at the table during climate discussions."

The resolution by U.S. Farmers and Ranchers for a Green New Deal outlines seven primary policy goals:

- Achieving fair prices for farmers and ranchers
- Rewarding farmers for eco-services,

such as mitigating water and air pollution and sequestering carbon through practices such as cover crops and no-till, while holding corporate polluters accountable

- Breaking up corporate agribusiness monopolies
- Supporting a transition to organic agro-ecological and regenerative practices
- Supporting beginning and diverse farmers and ranchers
- Strengthening and/or enforcing USDA National Organic Program standards
- Garnering support for local and regional infrastructure

(continued from page 9B)

gional infrastructure

"This is where America is going," said Blumenauer. "This is where progressive agriculture is tuned in. This is what the American public wants, and the Green New Deal for agriculture is a framework to approach it."

According to the EPA, the agricultural sector accounted for 9 percent of total U.S. greenhouse gas emissions in 2017.

"I think people who are anti-Green New Deal have gotten latched on to one little thing, like cow farts," said Shew. "But I don't know anyone personally who is completely against doing something about climate change."

PUBLIC AUCTION

Due to the death of my husband, Mike Farmer, we will therefore offer for sale at public auction the below listed items located 4324 W. SR 54,

LINTON, IN 47424 (south of Bloomfield on SR 54 to auction) on:
SATURDAY, OCTOBER 5 - 10:00 AM

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Reese hitch power winch - Dual wheel truck bed trailer - Gas generator - JD steel wheel wheat drill - Antique Gulf gas sign - Lots barbed wire, fence, panels, etc - Lots good used lumber - Lots seasoned firewood - Fence posts - **Also:** Hurricane #206 "Fun Deck" boat and trailer, 150hp Evinrude Intruder outboard, Shorelander trailer - Many other items too numerous to mention.

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CORN PICKER & FORAGE EQUIP: Kemper Champion 3000 Silage 4-Row Corn Head; JD 27 Flail Shredder; NI 323 Corn Picker; Pickett 6-Row Bean Rodder w/Viners;

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PLANTERS & SEED: JD 7000 Planter; JD 1590 No-Till Grain Drill; (4)-Totes of Cleaned Cereal Rye;

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SATURDAY, SEPTEMBER 28, 2019 @ 10:05 AM

LOCATION: 1324 E. 5th St. on State Rd. 44E

CONNERSVILLE, IN

GUNS & AMMO: S&W Air Weight hammerless .38 Special; Ruger 10-22 Connerville Commemorative-never fired; Anya Matador 111 (20 ga.) side-by-side, single trigger, beautiful wood; Bushmaster XM15-E2S AR 15 (.223) w/Leupold .223 scope, almost new; Stevens Favorite - Joshua Stevens Edition Mod. 71, never fired; High Standard Double Nine Revolver .22 cal.; .38 cal. quick loader; 250 rounds (.45) 230 grain MC new; 250 rounds (.380 auto) 90 grain new; 150 rounds .38 Special various loads.

TRUCKS, TRAILERS & CARS: 2006 GMC Sierra K2500 HD Pickup w/"The Boss" V snowplow, 4x4, AT, 6.0, 115,610 miles; 2005 Ford F-150 XL Pickup w/4x4, AT, 4 dr., 5.4, 187,877 miles; 2007 Jeep Liberty Sport 4x4, 6 cyl., AT; 2007 Ford Ranger w/3.0, AT, Air; 2006 Ford Taurus 4 dr., V-6; 2005 Ford Escape XLT (4x4), V-6, AT; 2004 Dodge Stratus 4 dr., AT, 4 cyl.; 2004 Chevrolet Silverado ext. cab, AT, 5.3 Pickup; nice 18' tandem axle 2013 Flatbed Trailer; Beautiful 19' Flatbed w/beavertail Show Trailer w/varnished floor; 2 Horse Trailer-no title.

TRACTORS & EQUIPMENT: Kioti LB1914 (4WD) diesel Compact Tractor w/PS, shuttle trans., 1,046 hrs.; First Choice 3 pt. 5' finish mower; First Choice 3 pt. 48" Rototiller; 3 pt. 6' Grader Blade; NH 273 Hay Baler; NH 479 (9') Haybine; NH 67 Hay Baler; 3 pt. slip scoop; Husqvarna RZ 5424 Zero Turn Lawn Mower; Hesston 5800 Round Baler.

ANTIQUE & COLLECTIBLE: Antique JD "B" show Tractor; Restored show Wisconsin V-4 engines w/electric start; Show Maytag kick start engine w/working water pump on steel wheel trailer; Electric Replica Oil Well Jack for yard; Improved corn sheller; Pedal-operated sharpening stone wheel w/seat; pitcher pump; stainless milkers; crosscutters; horn cutters; several Wisconsin engine parts including magnets, gas tank; barn jacks; oak machinist cabinet.

TOOLS & MISC.: JD Excavator bucket; King Canopy 12'x14' or 12'x20' w/sides; Winco Super FireLite generator w/electric start; DeWALT 770 Radial Arm saw; rolling welding Table; rolling Tool Cabinets; air hose reel; 2-wheel truck; barn jacks; stainless rolling cart; (2) 5' alum. stepladders; watercool fountain; metal hardware bins w/hardware; yellow flammable storage cabinet; rolling plastic trash cart; hunting tree stands; air nailers; power hand tools; pipe wrenches; screw boomers; several hand toolboxes w/tools; several chain saws; 6 HP/3000 Watt Generac; pickup toolboxes; drill bits; tool belts; safety belts; floor jacks; Craftsman Mini Tiller; Radial Arm saws; B&D Compound miter saw; jack stands; Kerosene Reddy Heaters; Lots of Carpenter Tools; DeWALT reciprocating saw; lots of levels up to 6'; bolt cutters; fishing tackle; HD log chain; road hazard signs; rototiller; 10-24 tractor tire on 8-hole wheel; General 2,100 PSI pressure washer; B&D 220V Commercial Radial arm saw.

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Seven Tennessee generations make a life on land in Vannatta

By **TERENCE CORRIGAN**
Tennessee Correspondent



AT THE HELM of his John Deere "office" – a combine – during harvest season is Tennessee farmer Tracy Vannatta.

(Terence Corrigan photos)

VANNATTA, Tenn. — Tracy Vannatta is the seventh generation of his family to run their farm in the unincorporated community that bears his family name. The Vannattas established the farm here in 1850.

The line of succession was James, George, William, Pete, Bobby, and now Tracy. Most family farm owners today are in their sixth decade of life, nearing retirement age, with no one in line to continue farming. This is not the case with the Vannatta family. Tracy's two sons, Tyler and Drew, are planning to take over as Tracy eases out.

As the years have passed, the family have adapted, making changes as needed to survive and, as it turns out, even prosper. A half-century ago, the Vannatta farm was 600-700 acres and the family started adding to their holdings. Over the years, as neighboring farmers got older and began to retire, they bought more of that acreage.

Today the farm has 1,500 acres in crops, some of the land owned outright, some leased.

In some cases, the Vannattas bought land to stave off encroachment of residential development. In one instance six years ago, the threat arose right across the road from the main farmstead (Bobby's home). A developer was planning to buy a prime piece of ground and put in a road connecting the Unionville-Deason Road to Eady Road and sell off lots for homes.

"My dad (Bobby) asked me, 'What do you think?'" Tracy said. "I said, 'Well, would you rather wake up one morning and see a bulldozer cutting a new road across from the front of your house, or wake up owing \$1 million?'" The Vannattas bought the land.

When the farm was founded, 11 years before the Civil War, the family started out like most farms of that time as a subsistence operation. They grew or raised almost everything they needed: chicken, sheep, pigs, cows, and horses. In the early days, the Vannattas grew enough corn to feed their livestock with some left over to convert to a liquid asset: Whiskey.

In the early 1930s the Vannattas had the first cotton gin in their part of the county. In the '40s, '50s, and '60s they grew crimson clover. In the 1950s they established a dairy that continued operating into the '90s.

In September 1987, recognizing the dwindling prospects of the dairy business, especially the smaller, family-owned operations, the Vannattas got into the chicken business. "We knew dairy was going to fade out," Tracy explained. "We were looking for another source of income to take up the slack."

At one time, the Vannattas had a dozen chicken barns, providing the Tyson packing plant in Shelbyville. Today, that aspect of their farm is down to five barns. Rather than invest \$450,000

each for new state-of-the-art chicken barns, Tracy and his sons have begun divining – trying to predict what crops will pan out in the coming years.

Tracy sees the best chance for future success in marketing food directly to consumers. It's been observed that farm profits are low because farmers buy their supplies and equipment at retail and sell their products at wholesale, with middlemen taking profits on both ends of the equation.

"We're eventually going to be landlocked, and land's too expensive," he said. "We've got to figure out how to up the income – melons or strawberries or direct sale of beef to the consumer."

A new direction

The Vannattas first move to adapt was planting 10 acres in hemp (16,000 plants) this year to be sold for cannabidiol oil. CBD oil is being used to treat anxiety disorders and to ease pain; how much the Vannattas can sell it for, the price per pound, depends on how rich the plants are in the oil. Tracy figures their plants are averaging a pound each, but he won't know until it's time to harvest.

The shuttered chicken barns have turned out to be an asset for the hemp operation. They are well-ventilated and are being repurposed as drying sheds for the crop.

Experience and knowledge, combined with perfect weather, have the Vannattas on course for a record harvest year. In his first corn harvest of the year his yield was 205 bushels per acre. Tracy thinks they are on track for an average yield of more than 200 bushels per acre, a record for their farm.

Last year's winter wheat – the on-farm average – was 95 bushels per acre. "That's really good no matter what state you're in," he noted.

The Vannattas have wealth in their soil, high-quality dirt, which he describes as "silty loam," highly prized by crop growers. They have also shored up their bottom line by converting to no-till, which, Tracy quipped, "saves soil and saves oil."

"We used to plow in the fall, disc three times in the spring, then run over the fields with a cultimulcher and a planter," he said. They made five passes over the ground just to get a crop planted. With no-till techniques, it takes just one pass to plant.

Political considerations

Although the storyline in national media is that President Trump's tariff/trade war with China is threatening farmers, Tracy thinks the USDA's Market Facilitation Program has covered most of the losses farmers have been hit with from the dispute. The federal government injected \$14.5 billion for direct payments to farmers to ease the pain this year alone.

"It's getting us right back to where the market would be if we had not had the tariffs," Tracy said. "It's really been pretty smooth."

(continued on page 18B)



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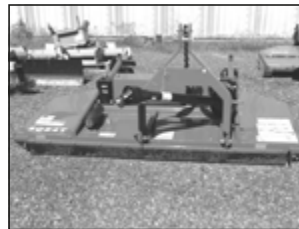
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Seven Tennessee generations make a life on land in Vannatta ...

(continued from page 17B)

As the demand for housing increases in Bedford County, the rising price of land and cultural conflicts interfere with farm life. People who move into a farming community often object to the smells from farming. When a farmer spreads out chicken manure, his formerly urban neighbors often complain about the unexpected and unpleasant olfactory assault.

"I don't like it either. It stinks," Tracy said. "But it's got to go somewhere."

The cultural encroachment goes both ways, even with something as simple as the placement of a mailbox. In Middle Tennessee, it's popular to encase new mailboxes in brick monoliths.

"They've all got these huge brick mailboxes right on the edge of the road," Tracy explained, and then "here I come with the tractor." When he encounters one of these mailboxes and there's on-

coming traffic, he is faced with a dilemma: "Do I stop? Do I have time to go around?"

"Mailboxes, one foot from the road; that's the way it is in the city. Out here you can tell the folks that know farming because their mailbox will be at least three feet back from the road."

TRACY VANNATTA with his fiancée, **Vida Haynes**, in a soybean field. **Forrest** the farm dog stands with them.

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Tuesday, October 15 • 6pm EST

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Wednesday, October 16 • 6pm EST

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OBITUARY

Donald E. Apple April 19, 1940-September 18, 2019

Donald E. Apple, 79, of Piqua, Ohio, died unexpectedly while flying his plane at 7:37 a.m. Wednesday, Sept. 18, 2019, at the Madison County Airport.



He was born April 19, 1940, in Piqua to the late Forrest and Treva (Warner) Apple. He married Sally K. Copsey on June 10, 1961, in Piqua, and she survives.

DON APPLE

Don was a 1958 graduate of Piqua Central High School and attended Ohio State University, studying agricultural engineering. He was a farmer for more than 60 years and truly enjoyed his work.

He was a member of Westminster Presbyterian Church. He was active with the International Flying Farmers, Ohio Flying Farmers, Piqua Rotary Club, Noon Optimist, FFA, and 4-H, where he received national honors. Don enjoyed flying over our beautiful nation, and in May 2018 was honored with the Wright Brothers Master Pilot Award for 50 years of safe flying.

He had a great love for the beauty of the Earth from above and loved seeing what God had created below. He enjoyed traveling around the country and internationally with his beloved wife, and they have been blessed to visit all 50 states, more than 60 countries, and six continents, always enjoying what God created. He also enjoyed their winters in Florida.

Don was a lifelong learner who believed in education and donated to a half-dozen college scholarships. Above all, he loved his wife, children, and grandchildren. He did his best to know he left this Earth better than he found it.

Other survivors include two daughters, Donna (Mark) Kinsella of Newburgh, Ind., and Sandy (Alan) Wilson of Norton Shores, Mich.; son Dan (Kelsey) Apple of Dublin, Ohio; six grandchildren, Austin Apple, Cade Apple, Riley Kinsella, Wesley Wilson, Max Wilson, and Sydney Wilson; and one sister, Dolores Morris of Columbus, Ohio.

Funeral arrangements are pending at this time. More details will follow at a later date. Funeral arrangements are being provided to the family through the Jamieson & Yannucci Funeral Home. Memorial contributions are suggested to be made to the Piqua Community Foundation, P.O. Box 226, Piqua, OH 45356.

Guestbook condolences and expressions of sympathy, to be provided to the family, may be expressed through jamiesonandyannucci.com

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FarmWorld

Wednesday, September 25, 2019

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Illinois ag, Cuban officials talk trade on heels of pending bill

By **TIM ALEXANDER**
Illinois Correspondent

DECATUR, Ill. — Illinois Cuba Working Group (ICWG) leaders and a Cuban trade official made a pitch for passage of a key legislative measure that would facilitate greater trade opportunities between the nations, during the opening day of the 2019 Farm Progress Show in Decatur.

The event, hosted by ICWG Executive Director Paul Johnson, was attended by special guest Rodney Gonzalez, the commercial attaché for the Cuban Embassy in Washington, D.C.

Both Johnson and Gonzalez hope to break down a key trade barrier inhibiting U.S. agricultural exports to Cuba: The inability to extend credit to Cuban purchasers due to a decades-old embargo on trade imposed by the United States.

The solution, they say, could come with passage of the federal Cuba Agricultural Exports Act (House Resolution 1898), which would permit U.S. exporters to sell food to Cuba on credit. This would level the playing field with other exporting countries that

have agreed to extend credit to Cuban purchasers.

H.R. 1898, introduced in March by Rep. Rick Crawford, an Arkansas Republican, would allow U.S.-based lending institutions to make their own determinations as to whether Cuban buyers can qualify for loans.

"The change would not place U.S. taxpayers on the hook for potential credit default, nor does it strengthen the Cuban government. It simply allows private investors and banks to assess country risk and proceed accordingly," Johnson explained. "It would allow U.S. farmers, ranchers, and commercial enterprises to compete and provide U.S. agricultural goods to the island."

Officials with the Illinois Soybean Growers (ISG) have visited Cuba 12 times since 2012 to explore expanded trade and are in full support of the bill, according to its director of strategic market development, Mark Albertson.

"As farmers and ag producers, we need every market we can get, especially those that are so close. Being able to export our crops and products to Cuba is something we should be able to do," Albertson said following the Farm Progress Show.

(continued on page 2C)



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USDA awards round of grants to aid in ag energy efficiency

By **STAN MADDUX**
Indiana Correspondent

WASHINGTON, D.C. — Another round of USDA grants to help farmers and other small town residents save on energy costs have been awarded — the latest \$9.3 million allocation is from \$50 million Congress set aside for 2019 under the Rural Energy for America Program, or REAP.

The grants went for projects in 49 states and Puerto Rico. One of these recipients was Darrel Erb, who raises corn and soybeans on 1,600 acres in Francesville, Ind. He used his \$12,441 grant to purchase and install a more energy-efficient grain dryer, estimated to lower his cost for drying grain by close to \$7,000 annually.

His three-year average energy tab on the grain dryer he previously used came to about \$30,000, he said.

According to USDA, the grants cover up to 25 percent of a project's cost and cannot exceed \$500,000 for renewable energy projects of \$250,000 on work involving energy efficiency.

Erb said the savings are a drop in the bucket on the

relief needed for struggling profit margins in a difficult farm economy — but every little bit helps.

"It's just tough times," he noted.

Erb said his new electric- and gas-powered dryer consumes less energy as a result of sensors regulating temperature based on the moisture content of the corn as it's being dried.

There were 18 recipients of REAP grants in Indiana. Adams Swine Farms, LLC in Berne and JS Farms, Inc. in Delphi also switched to more energy-efficient grain dryers, with \$15,318 and \$20,000 grants respectively.

Twelve of the recipients from Indiana are using REAP grants for projects related to solar energy. Several of those are non-farming recipients like Home Sweet Home Properties, LLC in Mount Vernon; D&D Electric in Etna Green; and Premier Roofing & Construction, LLC in Nappanee.

According to USDA, farmers and other agriculture-related producers, along with rural-based businesses and institutions, are eligible for the grants designed to increase the bottom lines of farmers, promote economic activity, and create jobs in rural communities.

The recipients included the University of Kentucky,

awarded a \$99,976 grant to conduct 31 energy audits on farms and rural small businesses to identify waste and outline steps to increase efficiency.

Other grants in Kentucky went to Lavern Litwiller, owner of a poultry farm in Calloway County, and L&T Poultry, LLC in Barren County. According to USDA, Litwiller is using \$8,987 to replace plastic curtain sidewalls with double-wall translucent, polycarbonate panels and install LED lighting.

L&T Poultry was given \$19,538 to upgrade the insulation in its ceiling, add insulated ventilation inlet doors, and install LED lighting at eight broiler houses.

In Michigan, one of the grants for \$20,000 went to Todd Haynes to buy and install a solar energy system at his Gratiot County swine finishing operation, in the central part of the state.

REAP also provides loans for up to 75 percent of the cost of a project. The loans can range from \$2,500-\$25 million, with a maximum term of 30 years for real estate, 15 years for machinery and equipment, and seven years for capital loans, according to USDA.

REAP was created under the federal Farm Security and Rural Investment Act of 2002 and continued under the 2014 farm bill.

Illinois ag, Cuban officials talk trade on heels of pending bill ...

(continued from page 1C)

"Our soybeans and our corn have been sitting in bins. When the grain isn't being sold, no one is getting paid. Now is the perfect time to move our crops to nearby markets."

The bill was spurred, in part, by Cuba distancing itself from U.S.-sourced poultry during 2018. Historically a top-five market for U.S. chicken, Cuban buyers instead turned to the European Union and Brazil last year. During his Illinois visit, Gonzalez was introduced to leaders in agriculture, including farmers, to explore expansion of trade between the nations.

"We believe that both American and Cuban businesses can benefit from trade between our two countries," which are just 90 miles apart," Albertson added. "With today's current trade

situation, our state's soybean producers, along with livestock producers who feed our soybeans to their pigs and chickens, need access to markets.

"Cuba has so much potential to help our state's exporters. Cuba imports 80 percent of its food and struggles to feed its people. The U.S. has food and products that could help the Cuban people."

The push for passage of H.R. 1898 comes despite sanctions and penalties announced in March by the Trump administration and former national security advisor John Bolton designed to strike against the "troika of tyranny" — Cuba, Venezuela, and Nicaragua. Reinstatement of titles III and IV from Helms-Burton (ratified in 1995 in an effort to unseat the late Cuban President Fidel Castro and his Communist

regime), as threatened by the Trump administration, would be directly harmful to agricultural trade, Johnson told *Farm World* in May.

"There are a lot of people in our industry who are very concerned about this unknown. It will impede future and existing trade we have with Cuba. Banks are concerned about how their role could be impacted in facilitating lines of credit to Cuba, and that puts a brake on export sales," he said.

"We are trying to get clarity from the administration as to how this affects agricultural trade. We know we can't do business with any companies or individuals that are tied to the Cuban military, but Title III goes somewhat beyond that, and I don't know where that ends."

Despite a 60-year overall trade embargo with Cuba, the U.S. was the leading exporter of agricultural products to the island nation from 2003-12, before falling behind to Brazil and the EU. In 2014, former President Obama announced the U.S. would reestablish diplomatic relations with Cuba and begin easing trade restrictions, leading many U.S. ag commodity and equipment groups to resume limited trade with Cuban non-military customers.



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Plans underway for 2020 Pony Express ride after 2019 success

By **JULIA BARATTA**
Michigan Correspondent

CENTREVILLE, Mich. — In the early days of U.S. mail delivery, it took several months, many miles, and numerous handoffs from one Pony

Express rider to another. Today, information can be delivered within seconds and people have more opportunities to communicate than ever before.

One group has reintroduced the idea of the Pony Express for one day a year as a way to raise money for needy families with children suffering from medical issues and requiring expensive care.

The Michigan Sheriff's Mounted Assoc. (MSMA) celebrates those officers who are willing to work on horseback to get jobs done for their departments. But their numbers are decreasing every year. When the group was first started in the 1960s, there were about 2,000 members from counties throughout the state.

SPECIALLY CREATED LETTERS and envelopes were available for a donation that was applied to the fundraising effort of the St. Joseph County Sheriff's Mounted Division. These letters were included in the mailbags on the Pony Express throughout the county.

There are currently fewer than 10 counties with mounted divisions included in their rosters. Even in small numbers, these men and women are passionate about their animals, and about participating in the annual Pony Express ride.

Every June, they will meet in the host county, which puts on a weekend full of activities, meals, and of course, the traditional Pony Express ride that Saturday morning. For 2019, the St. Joseph County Mounted Division was responsible for organizing and hosting the event.

The main feature was the county-wide passing-off of mail bags. Some of the larger units, such as St. Joseph County's, were given longer

routes of up to 12 miles, while some of the smaller groups helped by riding just a couple miles.

After the mail was delivered to the local post office, the participants made plans to compete in the evening speed show, with traditional contests like barrels and speed and action. A unique offering during the show was the Mail Run, in which a team of four riders from one county recreate the morning run as quickly as possible within the show arena.

The 2020 fundraiser is being planned, with the host county to be publicly announced at a future date. Keep up with the planning and learn more about the MSMA at <https://msma.us>

A HANDOFF of the Pony Express mailbag was conducted during the annual MSMA fundraising effort. The 2019 event took place in Centreville, Mich.

(Julia Baratta photos)



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Being aware of how S.A.D. works can help counter it

Sept. 30-Oct. 6, 2019

And memory makes the summer doubly pleasant.

In all my autumn dreams

A future summer gleams.

Passing the fairest glories of the present!

-George Arnold

The High Leaf Color Moon enters its second quarter at 11:47 a.m. on Oct. 4. Rising in the morning and setting after dark, this moon passes overhead in the afternoon, encouraging fish, game, and children to be most active at that time.

As the barometer falls before the cold front around Oct. 5, fishing and hunt-

ing should improve. The moon reaches apogee, its position farthest from Earth, at 1:29 p.m. on Oct. 10.

Weather trends

Weather history suggests that the cold waves of middle fall are likely to cross the Mississippi River on or about Oct. 2, 7, 13, 17, 23, and 30. Full moon on Oct. 13 is likely to intensify the weather system due that day, and lunar perigee on Oct. 26 and New Moon on Oct. 27 are likely to bring frost to the upper United States, as well as the increased likelihood of hurricane formation in the Atlantic.

Most of the days this week will be in

the 60s or 70s, with the latter predominating. On Oct. 4, however, a 10 percent chance for highs only in the 40s occurs for the first time since May 25. Light frost strikes 10-20 percent of the nights, with Oct. 3 most likely to bring a damaging freeze in the 20s (but just a 5 percent chance).

Space watch

The Draconid meteors arrive in the late evenings of Oct. 8-9. The Draconids usually appear before midnight, and the moon will be favorable for meteor-viewing at that time.

Passing retrograde into Libra, Venus rises too late and sets too early to be easily seen this month. And Mars, in Virgo, will also be difficult to find for the same reasons. Briefly visible in the southwest after sunset, Saturn quickly sinks into the far west with Sagittarius.

On the other hand, Jupiter remains the great Evening Star, easily seen when it shines in Ophiuchus in the far west after dark.

Evenings of early October bring the

Northern Cross setting in the west, accompanied by Aquila and Lyra. Overhead, the Great Square lies below the Milky Way. In the east, winter's Orion rises behind Taurus and the Pleiades.

In the northern sky, the Big Dipper hugs the horizon. Deep in the southwest, Fomalhaut hovers above the tree line.

An hour or so before sunrise, all the winter constellations will be in place. Orion due south, brilliant Sirius and Procyon in the southeast. In the south-southwest, red Aldebaran and the Pleiades will be following the Great Square. There will also

be a promise of warmth: Regulus, the bright planting star of middle spring, will be rising ahead of the sun.

Daybook

Sept. 30: Chances that a light frost will have brushed your garden by this date reach 60 percent.

Oct. 1: In this week of early fall, milkweed pods burst in the wind and the first juncos come back to the lower Midwest for winter.

(continued on page 5C)



POOR WILL'S ALMANACK
By Bill Felker



AMISH DAIRY FARMERS in the Greens Fork, Ind., area harvest for silage in the cooling late-summer weather.

(Staff photos)

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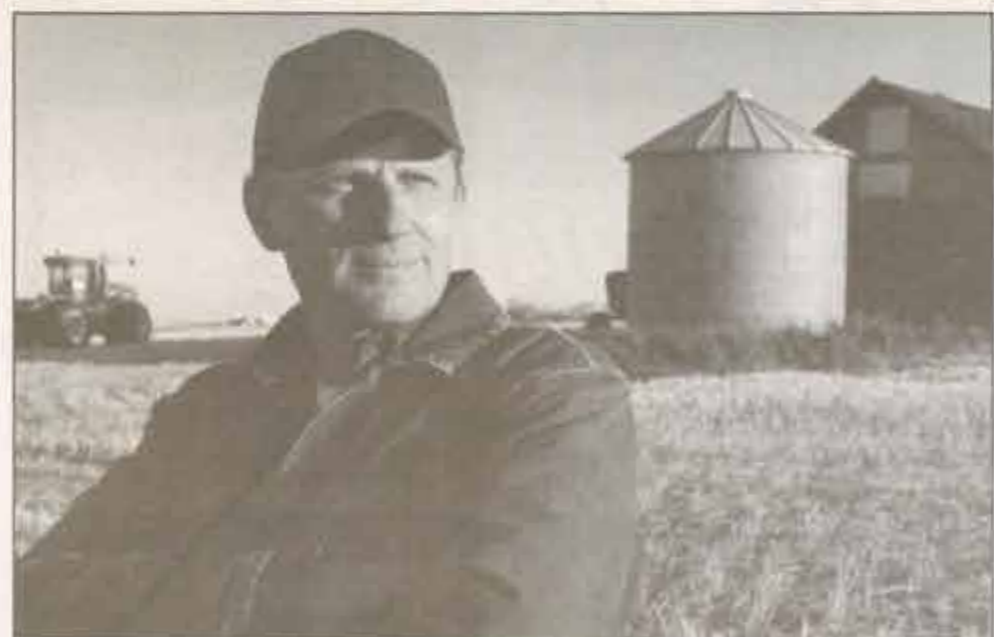
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Being aware of how S.A.D. works can help counter it ...

Cottonwoods, catalpas, redbuds, sassafras, and poplars are turning. Daddy longlegs are disappearing from the undergrowth. Foliage of poison hemlock and ragwort grows back in the wetlands.

Oct. 2: The locust trees are gold, and the reds show more now on the surviving ashes. The hedgerows are often bright scarlet from poison ivy and Virginia creeper. The full turning and falling has begun through the countryside.

Oct. 3: Zigzag goldenrod is still open, and most asters. Most tall goldenrod has rusted, and the August wingstem is turning black, the ironweed seeds becoming brown and soft. Swamp bidens plants are lanky and old now. Darners are still hunting, but the damsel flies are almost gone along the river.

Oct. 4: The mornings occasionally bring the peeping of migrating robins, and once in a while a cardinal will call. Cricket song has replaced cicada song.

Yellow jackets become more numerous, cabbage butterflies tamer or more reckless in the search for nectar and favorable sites to lay their eggs.

Oct. 5: The harvest of pears, cabbage, and cauliflower is ordinarily underway by the last week of early fall. Halloween crops have come to town, and most of the corn is normally mature. Just about all the dry onions have been dug, and fall apples are nearly half-picked.

In average years, the potatoes are just about all in the bag, and the grape harvest is in full swing. Soybeans are mature on 50 percent of the area's farms. Twenty percent of that crop and the first fields of corn have often been cut. A fourth of the winter wheat has usually been planted.

Oct. 6: Terns and meadowlarks, yellow-rumped warblers, and purple martins migrate south. Chimney swifts, wood thrushes, barn swallows, and red-eyed vireos join them as early fall moves to a close.

Autumn S.A.D.

Forces related to Seasonal Affective Disorder (S.A.D.) become more apparent in October as the length of the night increases and chances of mild weather decrease.

Although cloud cover is ordinarily not a major factor in S.A.D. this month, the odds for completely overcast conditions rise steadily. Full moon on Oct. 13 could stress gardeners, and perigee on Oct. 26, close to new moon on Oct. 27, is expected to disrupt moods as well as the weather.

As the forces that tend to increase S.A.D. gather momentum, however, other forces may help to decrease the effect of October's changes. The landscape, so suddenly transformed, can create exhilaration as well as shock and dismay. Often a resurgence in the undergrowth creates the impression of a second spring and a promise of new life in the new year.

The migration of birds may cause a restlessness in humans, a desire to move on

(continued from page 4C)

in space and time; and while such feelings can be discouraging to those who feel trapped in their situations, they can also reawaken old dreams and strategies for achieving them or for finding compensation for not achieving them.

Almanac literature Defenseless in Michigan

By Larry Border
New London, Ohio

When I was a child back in the summer of 1955, I carried newspapers and saved my money to buy a hunting knife. It was a Jim Dandy, had a bone handle and a leather sheath.

My family was going on vacation in Upper Michigan to a cabin located in a bear-hunting camp. As an 11-year-old boy, I knew I could protect me and my family from bears with my trusty knife.

The cabin had an outhouse not far from the front porch that utilized chemicals. You didn't have far to go to use the facility, and in the brutal winters, the hunters appreciated that. So when nature called my name one day, I stepped into our outhouse and closed the door. I unbuckled my belt and I heard a strange *ker-plop*.

Oh no! my trusty hunting knife fell into the deep, dark muck below, never to be seen again, leaving me and my family defenseless and an 11-year-old boy brokenhearted and with a great financial loss.

This week's Scrambler

In order to estimate your Scrambler IQ, award yourself 15 points for each word unscrambled, adding a 50-point bonus for getting all of them correct. If you find a typo, add another 15 points to your IQ.

EHCKC
KHCE
KCSPE
EEUQCH
ZHCCE
CEPK
CLLCTOE
CETH
KRET
CZAET

Last week's Scrambler

AIESL - AISLE
LSIE - ISLE
MESLI - MILES
HIWEL - WHILE
ELYGAR - ARGYLE
LEIB - BILE
MIEL - MILE
LESTI - STILE
EILW - WILE
EFIL - FILE

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Is the attorney's office located on an active farm?	Yes	?
Does the attorney focus on farm and Ag law?	Yes	?
Trial Experience with Farm/Ag cases?	Yes	?

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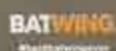
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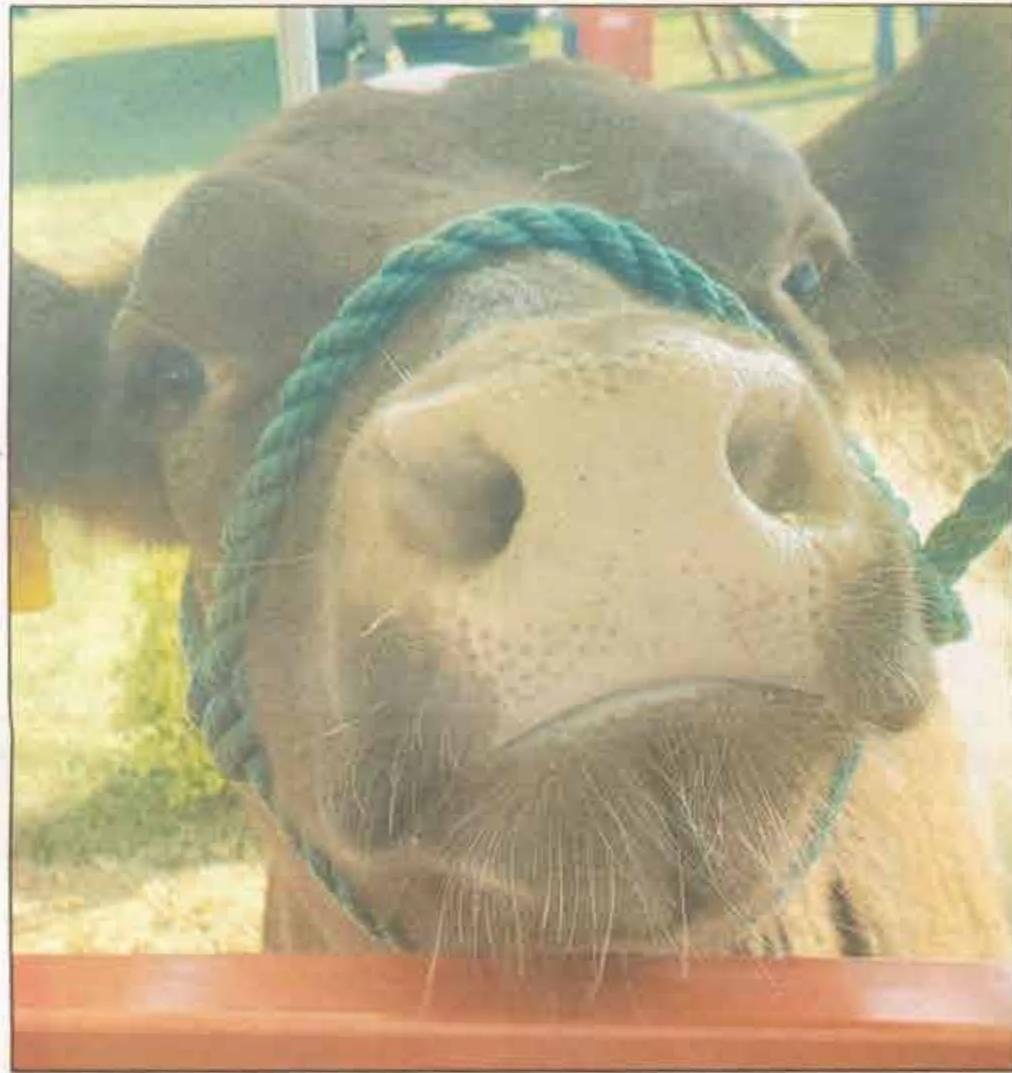
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2019 Farm Science Review

More than 100,000 people turned out for this year's Farm Science Review near London, Ohio, Sept. 17-19. The event is held at the Molly Caren Ag Center and draws visitors and vendors from throughout the Midwest. Numerous educational seminars and field demonstrations are featured; it is also a great place to check out the newest in what ag tech has to offer and what equipment dealers are showcasing.

(Staff photos)



FIRST STEP to Women in Agriculture

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Ohio County Map by Number of Women Farm Operators

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750-999 11 Counties: 5,212
500-749 11 Counties: 1,488
250-499 11 Counties: 1,488
100-249 11 Counties: 1,488
50-99 11 Counties: 1,488
25-49 11 Counties: 1,488
10-24 11 Counties: 1,488
5-9 11 Counties: 1,488
1-4 11 Counties: 1,488
0 11 Counties: 1,488

TOTAL: 43,256

Women in Agriculture

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CAMPUS CHATTER

NCBA, PLC accepting summer 2020 internship applications

WASHINGTON, D.C. — It's never too early to plan for next summer. That's why the National Cattlemen's Beef Assoc. and the Public Lands Council's government affairs office in Washington, D.C., is accepting internship applications for the summer 2020 semester.

Positions for next summer (mid-May to early August) include a public policy intern and law clerk. The deadline to submit an application for either position is Dec. 6. The internships give college students the opportunity to work alongside staff on a range of issues that impact U.S. cattle producers.

To apply for the public policy internship or law clerk position, visit www.beefusa.org/opportunitiesforstudents.aspx

WHIN awards grant to bridge education gap in precision ag

WEST LAFAYETTE, Ind. — The Wabash Heartland Innovation Network (WHIN) awarded more than \$1 million

in grants collectively to organizations throughout the Wabash Heartland region via its Regional Cultivation Fund.

This first of five rounds of funding (generously provided from a \$38.9 million regional grant from the Lilly Endowment) will increase education, vitality, and connectivity throughout WHIN's 10 counties.

Indiana West Advantage of Montgomery County and Ivy Tech Community College, Lafayette, have been awarded \$38,292 for a planning grant through the WHIN Regional Cultivation Fund.

While Ivy Tech currently offers an associate of applied science degree and technical certificates in agriculture, there is not a degree or certificate specifically focused on precision agriculture technology at the Lafayette campus. The goal of the project is to expand current educational programs to include precision ag technology.

Digital technology and IoT are incorporated in all aspects of the business of farming. Most modern farm machinery is equipped with technology

to make the farmer, and the crop they are planting, more efficient. The farmer also has access to hundreds of technology platforms all designed to help streamline some area of the business.

The main goal of the grant is to fully understand the unmet need of the companies in the region that are trying to hire workforce-ready employees to work in digital agriculture.

A comprehensive work study will be conducted with a representative sample of companies in the region. The responses will be anonymously aggregated to determine how Ivy Tech will expand its education opportunities for digital agriculture across all regional campuses.

Students can gain experience through Cattle Show internship

CENTENNIAL, Colo. — A fun, rewarding, engaging opportunity is available for college students wanting to attend the 2020 Cattle Industry Convention and NCBA Trade Show in San Antonio, Texas, from Feb. 2-7, 2020.

Up to 18 interns will be selected for

this opportunity. They will be assigned to help many different staff members and attendees with meetings and events and should be prepared to handle a wide range of responsibilities, such as setting up the indoor arena, assisting at committee meetings and Cattlemen's College, posting on social media, and contributing in the NCBA booth.

Students must be at least a junior-level college student at an accredited university at the time of application. Preferably they will have a background in, or working knowledge of, the cattle and/or beef industry, and must have a minimum 3.0 GPA. Students should be well-versed in all areas of social media.

Interested students must complete a Student Internship Application from <https://ncba.hyrell.com/UI/Views/Applicant/VirtualStepCareers.aspx> and send college transcripts, two letters of recommendation, and a resume. The deadline for applying is Oct. 11; to learn more, contact Walt Barnhart at 303-850-3347 or wbarnhart@beef.org



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GREENMARK EQUIPMENT USED SALES PROGRAMS:

USED COMBINES - Ask about Interest Waiver until January 1, 2021 followed by a Low Rate
USED SELF-PROPELLED FORAGE HARVESTERS - Ask about 0% until September 1, 2021
USED 4WD TRACTORS - Ask about Interest Waiver until January 1, 2021 followed by a Low Rate
USED ROW CROP TRACTORS - Ask about Interest Waiver until January 1, 2021 followed by a Low Rate
USED SPRAYERS - Ask about Interest Waiver until November 1, 2020



'18 JD 5780, 287 hrs., pfold, tilt fdrhse, Stk #09104919..... \$429,000 (KC)

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(269) 464-3332

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(269) 464-4610

Kent City, MI (KC)
(616) 421-8533

Three Rivers, MI (TR)
(269) 464-4618

Sodus, MI (SO)
(269) 464-4622

Union, MI (UN)
(269) 464-4626

Athens, MI (AT)
(269) 464-4627

LaGrange, IN (LG)
(260) 638-5080

Winamac, IN (WI)
(574) 633-3111

Knox, IN (KN)
(574) 633-3112

Plymouth, IN (PL)
(574) 633-3113

Leesburg, IN (LE)
(574) 633-3114

Monticello, IN (MO)
(574) 633-3115



'17 JD 5680, 725 hrs., tilt fdrhse, pfold, ext wear, Stk #09105577 \$327,500 (HO)



'16 JD 5680, 474 hrs., tilt fdrhse, pdrive, pcast, Stk #09102289 .. \$359,500 (TR)



'16 JD 5680, 556 hrs., ext wear, tilt fdrhse, Stk #09103536..... \$367,500 (AT)



'15 JD 5690, 1397 hrs., tilt fdrhse, pcast, Stk #09102273..... \$269,500 (LG)



'18 JD 5770, 386 hrs., pfold, tilt fdrhse, Stk #01302079..... \$397,500 (PL)



'15 JD 5690, 892 hrs., pcast, tilt fdrhse, Stk #09102272..... \$318,500 (UN)



'17 JD 5680, 328 hrs., pfold, ext wear, Stk #01702166..... \$354,000 (MO)

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LARGE PUBLIC AUCTION

FRIDAY, OCTOBER 4, 2019

Twenty Miles West of INDIANAPOLIS, INDIANA

on Interstate 70 to State Road 39 (Exit 59) - Then 1/2 Mile South to Sale Site at: Ted Everett Farm Equipment



ABSOLUTE AUCTION, EVERYTHING SELLS, NO CONSIGNMENTS

THREE AUCTION RINGS: TWO STARTING AT 9:00 AM

FIRST RING: COMPACT TRACTORS, INDUSTRIAL, FARM EQUIPMENT • SECOND RING: GOLF CARTS, LAWN & GARDEN, ATVs & MISC. THIRD RING: STARTS AT 12:30 PM OUTSIDE - VEHICLES & MISC.

- TRACTORS**
JD 8570, 8125 HRS
JD 6335RT, 1480 HRS
JD 7700, 7683 HRS
JD 7410 POWER QUAD, MFWD, SELF-LEVELING LDR
JD 7230 W/CAB, 2WD, 800 HRS
JD 6300L W/LDR, MFWD, 586 HRS
JD 6170 W/LDR, MFWD, FORKS, BUCKET, FRONT & REAR WEIGHTS, 4 REMOTES, 1542 HRS
JD 5520 W/CAB, 2WD, LDR, READY, 3082 HRS
JD 5320 W/CAB, LDR, MFWD
JD 5093E W/LDR, MFWD, 3771 HRS
JD 5075E, 293 HRS
JD 4780 W/DUALS
JD 4720 W/LDR & DECK
JD 4650, PS, DUALS, 9625 HRS
JD 4555, MFWD, DUALS, 7592 HRS
JD 4520
JD 4450, POWER SHIFT, 3 REMOTES, 8390 HRS
(2) JD 4220, OPEN STATION, QUAD RANGE
JD 4030, FENDERS, WESTENDORF LDR
JD 4020, PROPANE
JD 2750 W/LDR
JD 2520 W/67" DECK, DRIVE OVER, MFWD, 714 HRS
JD 2355, W/ON IN THE MONROVIA FESTIVAL DRAWING IN 1992, ONLY HAS 85 HRS FROM DRIVING THROUGH THE PARADE, STORED IN HEATED GARAGE
JD 2305 W/LDR & DECK, 807 HRS
JD 2025R, 278 HRS, SN 113779
JD 2020 W/LDR
JD 1920, 2WD, GAS
JD 1628R W/LDR & DECK, 212 HRS
JD 955 W/UD X300 LDR, DECK, 4WD
JD 750 W/CAB & BLADE
JD 630, NF, GAS
JD 70, NF, GAS
JD 4
C/H 180 MAGNUM, MFWD, PS, 2650 HRS
C/H 9280, BAREBACK, DUALS, 4000 HRS
C/H 7140 MAGNUM, MFWD, DUALS, 5759 HRS
C/H 7130 MAGNUM, MFWD
C/H 7110 MAGNUM
C/H DX40 W/LDR, MFWD, 600 HRS
KUBOTA M7040 W/LA1153 LDR, MFWD, CANOPY
KUBOTA L3750, HYD SHUTTLE
KUBOTA L3650 W/LDR, MFWD
KUBOTA L3600 W/LA680 LDR
KUBOTA L3440 HST W/LDR, MFWD, 1263 HRS
KUBOTA BX2680 W/LDR, DECK, MFWD, 52 HRS
KUBOTA BX2670 W/LDR & DECK, 92 HRS
KUBOTA BX2650 W/LDR, DECK, MFWD, 343 HRS
KUBOTA BX2350 W/LDR, MFWD, BELLY MOWER
KUBOTA BX2270
KUBOTA BX2020, MFWD
(2) KUBOTA 87100
KUBOTA 83300, 5U, MFWD, 180 HRS
KUBOTA 81550 W/DECK, HST, 1135 HRS
AGCO ALLIS 7800A W/QUICKIE 670 LDR, MFWD
AC 8030
AC 7010, 2WD, 2700 HRS
AC 185
AC 180
AC 180 W/LDR
AC D15 W/BELLY MOWER
AC W/ WF
AC WC
CASE 2390, 4777 HRS
CASE 1370 W/DUALS, 5082 HRS
CASE 830, CASE O MATIC, W/ GAS
CASE D, SN 5516370
COOP 30, SN 21840
COCKSHUTT 60, SN 610620
CUB CADET 7530 W/LDR, 4X4, 535 HRS
DUETZ 3220
FARMALL 40 W/CAB, LDR, AIR, CVT
TRANS, 589 HRS (TRANSMISSION ISSUES)
FARMALL 350
FORD TWIGS, MFWD, DUALS
FORD 7700, DIESEL, 5738 HRS
FORD 3000 W/LDR
(2) FORD 2000
FORD 850, GAS, NEW PAINT, SN 99812
FORD GOLDEN JUBILEE
FORDSON TRACTOR
IH 5488, DUALS, 5278 HRS
IH 5488, DUALS
IH 5268, DUALS, PS, 3 REMOTES
IH 1468 W/CAB
IH 1456 W/GREAT BEND LDR
IH 896 W/CAB
IH 896
IH 808, W/ GAS
IH 706, W/ GAS
IH 656
IH 480 W/LDR
IH 245 W/LDR
IH 244 W/BELLY MOWER
IH SUPER MTA, SN 66813
SN FORD
MF 4225 W/LDR, MFWD
MF 2705
MF 2640 W/CAB, 2WD, 1315 HRS
MF 1085
MF 265 W/LDR, 3036 HRS
MF 50 W/LDR
NH TC40 W/LDR & DECK
NH TC18
NH TN05, 2WD, 3858 HRS
OLIVER 77
OLIVER 60, SN 615544
WHITE 2-150
- AGRCAT 2020
SALVAGE TRACTORS
JD 4230
JD 70, DIESEL
JD R
AC 7045
AC 7040
AC 5030
AC WD45 W/MIXER
CUB CADET 185
FARMALL 460
FARMALL H
FORD 5000, DIESEL
JEPE 284 W/KEYER LDR
MF 408 W/LDR, DIESEL
WHITE 2-105 W/LDR
STEIGER 320 W/8 ENGINE, RUNS BUT WON'T MOVE
CASE 1818 SKID STEER W/42" BUCKET, 2670 HRS
BADGER 889 GRADE ALL EXCAVATOR
JD 125 SKID STEER
FORKLIFT
CONSTRUCTION
CAT 288D XPS SKID STEER
CAT 262D SKID STEER, 380 HRS
CAT 257D SKID STEER
CAT 246B SKID STEER
CASE 1845C SKID STEER, 2937 HRS
CASE TV380 SKID STEER
CASE SV250 SKID STEER, 1529 HRS
NH C236 SKID STEER, 1700 HRS
KUBOTA SVL90 SKID STEER, 3069 HRS
TAKEUCHI TL1072 SKID STEER, 74"
BUCKET W/TEETH, 180 HRS,
WARRANTY THROUGH DEC 2019
TAKEUCHI TL150 SKID STEER
CLARK GPX50 FORKLIFT
DOOSAN MEGA 160 LOADER
CAT 908F WHEEL LOADER
CAT 924F WHEEL LOADER
DRESSER 5158 WHEEL LOADER
HOUGH 160 LOADER W/FORKS &
BUCKET
JD 301 W/LDR
GRADALL 534-6 TELEHANDLER, 4WD
8000# LIFT, CUMMINS
JD 410G BACKHOE, CAB, 4X4, EXTEND A HOE, 6247 HRS
JD 310G BACKHOE, 2WD
CASE 580SM BACKHOE, 4X4, EXT A HOE
CASE 580SM BACKHOE, EXT A HOE, 4WD
5829 HRS
CASE 580SM BACKHOE, EXT A HOE, 4WD
6109 HRS
CASE 580 BACKHOE, 72" BUCKET
OUTRIGGERS, 16" & 24" BUCKETS
CASE 580B BACKHOE
CAT 416C BACKHOE, 4WD, EXT A HOE
JD 310SE TLB, 2WD, EXT A HOE
JD 310SE BACKHOE
CAT D5G DOZER, 1043 HRS, SN
5XK35625
CAT D4B LGT DOZER
CAT D3B DOZER
JD 750C DOZER, 6-WAY BLADE, 3148 HRS
KOMATSU D41E-6 CRAWLER DOZER
CAT 314C EXCAVATOR
BOBCAT 325G EXCAVATOR, OPEN ROPS
KUBOTA K091R025 EXCAVATOR, 950 HRS
HITACHI EX200 LC-3 EXCAVATOR, 30"
BOOM, 32" TRACKS 40" BUCKET
LINK BELT 3400 EXCAVATOR
IH 55XN EXCAVATOR
EVERSMAN 730 SCRAPER, 8YD
JD 650 SCRAPER, PULL-TYPE
REYNOLDS 6C DIRT SCRAPER
MISKIN M-81 SCRAPER, PULL-TYPE,
DOLLY, 7"
JD 48 BACKHOE, 3PT, W/24" & 36"
BUCKETS, OFF-4000 SERIES
GEH, TELEHANDLER TKT ATTACHMENT
COMBINES
JD 5860, CHOPPER, CONTOUR MASTER,
DUALS, 409575 HRS, SN 746959
JD 9570STS, 2WD, CONTOUR MASTER,
CHOPPER, BILLET ROTOR, 1994/1381
HRS
JD 9570STS, CHOPPER, 1899/1650 HRS
JD 9560STS, DUALS, 2867/1701 HRS
JD 9560STS, SINGLES, 2860/1900 HRS
JD 9510, CONTOUR, 4409/3117 HRS
JD 9500, 3241/2253 HRS
JD 8620 TITAN II, 4WD
JD 7720 TITAN II, 4198 HRS
JD 7720, 4236/4320 HRS
JD 7720
JD 6620 HYDRO, 5213 HRS, YM-PF3000
YIELD MONITOR
JD 6620
C/H 7120
C/H 2588, RT CHOPPER, FIELD TRACKER,
2360/1709 HRS
C/H 2588, 3408/2752 HRS, 2WD, SN
300990
C/H 2388, RT CHOPPER, FIELD TRACKER,
2983/2083 HRS, SN JJC0276154
C/H 2366, 2WD, CHOPPER, 2900/2030
HRS
C/H 2344, 2WD, CHOPPER, 2516/1798
HRS, SN JJC0174064
C/H 2188, DUALS, 3732 HRS
C/H 2166
C/H 1660, 4891 HRS
HEADS
MACDON 972 DRAPER HEAD, 30"
JD 925 GRAIN HEAD
JD 920 GRAIN HEAD, 20"
JD 920 GRAIN HEAD
JD 915 GRAIN HEAD
JD 636F GRAIN HEAD
(4) JD 630F GRAIN HEAD
(2) JD 630F FLEX GRAIN HEAD
JD 625F GRAIN HEAD, 25", HYDRA FLEX,
FULL FINGER
JD 330F GRAIN HEAD, POLY
JD 220 GRAIN HEAD, 20"
- JD 218 GRAIN HEAD
(2) JD 213 GRAIN HEAD
C/H 1020 GRAIN HEAD, 15"
(4) C/H 1020 GRAIN HEAD, 20"
JD 608C CORN HEAD, 1-OWNER, ONLY
3000 ACRES, SN 705856
(2) JD 893 CORN HEAD
JD 843 CORN HEAD
JD 893 CORN HEAD, HYD STRIPPERS,
FLUTED ROLLS
(3) JD 690 CORN HEAD
JD 644 CORN HEAD
JD 643 CORN HEAD, HIGH TN
(2) JD 643 CORN HEAD
JD 653A ROW CROP BEAN HEAD
(2) C/H 3408 CORN HEAD
(2) C/H 1063 CORN HEAD
2009 GERHARDT 8-ROW
HUGGER 630 CORN HEAD
(2) CLEANER 525 FLEX
CLEANER 520, FLEX
PLANTERS & DRILLS
KINZE 3650 PLANTER, 16-ROW, LIQUID
FERT
KINZE 3600 1631 PLANTER, BULK FILL,
NO-TILL, ROW CLEANERS
KINZE 3000 PLANTER, 6-ROW, LIQUID
FERT, DOUBLE FRAME SPLITTER
WHITE 8202 PLANTER, 12-ROW
C/H 1200 PLANTER, 16-ROW
JD 1770 PLANTER, 16-ROW, LIQUID FERT
JD 7200 PLANTER, 6-ROW, LIQUID FERT
JD 7200 PLANTER, 6-ROW, VAC
JD 7000 PLANTER, 16-ROW, WIDE ROW,
FRONT FOLD, FLEX
JD 7000 PLANTER, 6-ROW
JD 7000 PLANTER
GREAT PLAINS 6-ROW PLANTER, DRY
FERTILIZE
BUFFALO 9000 12/30 PLANTER
CONVEYOR 1200 PLANTER
GP 20 NO-TILL DRILL W/COUNTER CADDY
(2) JD 5300 DRILL
JD VAN BURNT DRILL
JD 60113 GRAIN DRILL
C/H 5400 DRILL, 15", NO-TILL W/COUNTER
KRAUSE DRILL, NO-TILL, GRASS SEED
MULLERS PASTURE KING, PULL-TYPE, 10"
TILLAGE
C/H 330 TURBO, 32"
C/H 360 DISK, 24"
C/H 496 DISK, 28", 7.5" SPACING
C/H 496 DISK, 21", 11" BLADES, 7.5"
SPACING
C/H 496 DISK W/HARROW, 22"
C/H 480 DISK, 24"
C/H 370 DISK, 18"
JD 210 DISK, 14", 8" SPACING, HARROW
KEWANEE OFFSET DISK
KRAUSE 1981 DISK, 21"
WILCOX 1800, 7-SHANK, 30" SPACING,
REAR CLOSING DISKS
SUNFLOWER 1430 DISK, ROCK FLEX
JD 2623VT, 26.5", HYD REAR BASKET, SN
750990
UNVERFERTH 7-SHANK RIPPER, PULL
TYPE, FOLD UP REMOVABLE TONGUE,
SPRING RESET
JD 2210 CULTIVATOR, 48"
JD 875 CULTIVATOR, 8-ROW, WIDE ROW,
FLAT FOLD
KENT SERIES V FIELD CULTIVATOR, 28",
5-BAR SPIKE HARROW
KRAUSE FIELD CULTIVATOR
DEERBORNE 2-ROW CULTIVATOR, REAR
MOUNT
C/H MIRA890 RIPPER, 7-SHANK
JD 510 DISK RIPPER, 7-SHANK
MAW 1675 DISK RIPPER, 7-SHANK, 3-BAR
COIL TIRE HARROW
(2) MAW 1165 EARTHMASTER, 3-SHANK
DUAL 5830 8-LINE RIPPER, 3PT, 5-SHANK,
SPRING LOADED SHANKS
SUNFLOWER 6532 SOIL FINISHER, 28",
5-BAR SPIKE TOWTH HARROW
WALKING TANDERS
GLENCOE 7X SOIL SAVER
JD 722 FINISHER, ROLLING REEL, 5-BAR
SPIKE, 30"
UNVERFERTH 220 ROLLING HARROW, 31"
100 ROTARY HOE
SPIKE HARROW - NEW
PULL-TYPE DISK CHISEL
GRAIN CARTS & WAGONS
PARKER 1339 AUGER CART W/SCALES &
TARP NEW
UNVERFERTH 1110 TRACK CART
BRENT 680 AUGER CART W/SCALES
KINZE 840 AUGER CART
(2) EZ FLOW 415 AUGER CART
MAW CORNER AUGER CART
(2) KILLBROS WAGON W/AUGER
AAL F500 GRAIN CART
BH 528 GRAIN CART
J&M 525 GRAIN CART, NEW TIRES
HINSON 812 GRAIN CART
BRENT 544 GRAVITY WAGON
(2) BRENT 440 GRAVITY WAGON
MAW 300 BU GRAVITY WAGON, DUAL
DRS
MAW GRAVITY WAGON
KILLBROS 350 GRAVITY WAGON ON
ELECTIC 5010 RUNNING GEAR
(3) KILLBROS GRAVITY WAGON
EZ TRAIL 3400 GRAVITY WAGON, 400 BU
FICKLIN 231 GRAVITY WAGON ON JD 1065
84" SKID LOADER BUCKET
FICKLIN 185 GRAVITY WAGON ON JD
GEAR
FICKLIN 4500 GRAVITY WAGON
GRAVITY WAGON W/AUGER
(2) GRAVITY WAGON
J&M 450 BU WAGON
(2) J&M 540 WAGON
(2) J&M WAGON
MAW LITTLE RED WAGON
- (2) KILLBROS WAGON W/AUGER
100 BU WAGON W/TARP
PARKER WAGON
GRAIN BOX
HAY EQUIPMENT
JD 969 ROUND BALER, NET WRAP, 16782
BALES
JD 640 HAY RAKE W/DOLLY WHEEL
H&S BF14HC 16-WHEEL HAY RAKE
H&S HAY RAKE, 12-WHEEL
NH 258 HAY RAKE
NH 5209 DISK MOOD
JD 275 DISK MOWER, 3PT, 8"
VERMEER 7030 DISK MOWER, 9", 3PT
BUSH HOG DISK MOWER, 3PT
ENORROSSI G4LP 4-BASKET TEDDER
ENORROSSI G4V570 4-BASKET TEDDER
SITREX 2GL302 2-BASKET HAY TEDDER
NH 1465 HAYBINE
NH 479 HAYBINE
ROTARY CUTTERS
JD HX15 BATWING
JD HX14 BATWING, 3PT
(2) BUSH HOG 2815 BATWING
BUSH HOG 2715 BATWING
BUSH HOG 2615 BATWING
LANDPRIDE RC2512 BATWING, 12"
HOWSE 15" BATWING
WOODS 0315Q BATWING
WOODS RM90 260 BATWING
6" BUSH HOG
JD 1508 ROTARY CUTTER, 15"
JD 1008 ROTARY CUTTER, 10", 3PT
JD 709 ROTARY CUTTER
JD 513 ROTARY CUTTER, 5" (AS IS)
JD 5" ROTARY CUTTER
BUSH WACKER 7230 ROTARY CUTTER,
10", 3PT
HOWSE ROTARY CUTTER, 5"
LANDPRIDE RC41260 CUTTER, 5"
WOODS RB72 ROTARY CUTTER, 6"
WOODS 121 ROTARY CUTTER
WOODS 84 ROTARY CUTTER, 3PT
WOODS ROTARY CUTTER
WOODS 6 ROTARY CUTTER
MAHINDRA 5 ROTARY CUTTER, 3PT
(6) MAHINDRA 6 ROTARY CUTTER, 3PT
(5) MAHINDRA 6 ROTARY CUTTER, 3PT,
W/SLIP CLUTCH
(3) MAHINDRA 4 ROTARY CUTTER, 3PT
AC 5" ROTARY CUTTER, PULL TYPE
5" ROTARY CUTTER, 3PT
BUSH HOG T1500 FINISH MOWER
LANDPRIDE RC2512 RANGER SERIES II, 12"
LANDPRIDE 1572 FINISH MOWER, 90"
LANDPRIDE 6" FINISH MOWER
WOODS RM90 FINISH MOWER
WOODS FINISH MOWER
MIRANDA 6 FINISH MOWER
BUSH HOG S460F SIDE CUTTER
RHINO DB150 DITCH BANK MOWER
OTHER EQUIPMENT
JD 4730 SPINNER, 90" BOOMS,
STAINLESS STEEL TANK, GUIDANCE
READY, 3180 HRS
TYLER PATRIOT SPK3150 SPRAYER, 90"
BOOMS, 4WD, RAVEN 480 MONITOR,
4782 HRS
SPRACOLPE 4640, 80" BOOMS, RAVEN
MONITOR, 2000 HRS
HARDI 3000 SPRAYER, 90" BOOMS
BEST WAY FIELD PHO II SPRAYER, PULL
TYPE, 80" BOOMS, RAVEN SC5400
CONTROLLER
HARDI PULL TYPE SPRAYER, 30" BOOMS
HARDI NAVIGATOR 1100 SPRAYER
BESTWAY 500-GAL SPRAYER, PULL-TYPE
MELROE SPRAY COUPE 220
SILVER WHEELS CENTER RIDE LEADER
BED FERTILIZER SPREADER, NEW
BELT IN BED
HAWN FERTILIZER SPREADER, 3PT
KNIGHT 3030 REEL AUGIE FEED WAGON
W/SCALES
BLUE JET VISTRON 17X HYD FOLD
AMMYPRODS APPLICATOR, PULL TYPE
RAVENS COOLER
UNVERFERTH 3750 SEED TENDER
BRADY 2400 STALK SHREDDER, 20"
JD BARGE BOX W/HOIST
IH 3609 MANURE SPREADER
NH 302 MANURE SPREADER
NH 201 MANURE SPREADER
NH 135 MANURE SPREADER
NH MANURE SPREADER, TANDEM AXLE
KNIGHT 1030 MANURE SPREADER
HLS MANURE SPREADER
BETTER BUILT MANURE TANK
PREFERT CATTLE CHUTE
PREFERTION CHUTE
HOG CHUTE
LEARN KING 14X55 AUGER
FARM CORNER PICKER
ROCK WAGON
PICKER
CHOPPER OFF JD 6620
UNVERFERTH HT125 HEAD CART
UNVERFERTH HT125 HEAD CART
EZ TRAIL 672
EZ TRAIL 620 HEAD CART
BALLIE 20" HEAD CART
KILLBROS 20" HEAD CART
SHOP BUILT 20" HEAD CART
KILLBROS 1280 RUNNING GEAR
HAY WAGON RUNNING GEAR
JD 726 LOADER
84" SKID LOADER BUCKET
BUSH HOG 176 BLADE, 10"
JD 9" BLADE, 3PT
LANDPRIDE HYD BLADE, 3PT, 9"
RHINO R550 BLADE, 9"
WORKSAVER 9" SNOW BLADE
WOODS RB800 BLADE, 3PT, 8"
FRONTIER 84X298H HYD SCARIFIER BOX
BLADE, 8"
RHINO HYD REAR BLADE, 8", 3PT
- C/H 8M184H FARMALL 7 FRONT MT
BLADE FOR COMPACT TRACTOR
C/H 8M184 FARMALL FRONT MT BLADE
FOR COMPACT TRACTOR
JD FRONT HYD BLADE, 7"
7 GRADER BOX
3PT BLADE, 6"
(4 SETS) PALLET FORKS
(5 SETS) MAHINDRA PALLET FORKS
KUBOTA PALLET FORKS
10" PALLET FORK
(4) MAHINDRA SKID STEER MT SINGLE
SPEAR
(5) MAHINDRA 3PT PHD
PHD W/8" & 12" AUGERS
PHD W/8" & 8" AUGERS
JD 35C SICKLE MOWER, 9"
MOSQUITO SPRAYER, 9HP BRIGGS
(2) ALUMINUM FUEL TANK
SWEEPSTER W/CURB SWEEPER
WINPOWER 20KW GENERATOR ON
TRAILER
PTO GENERATOR
MILITARY POWER STATION, SLIDE IN FOR
TRUCK
INGERSOLL RAND 185 AIR COMPRESSOR
AIR COMPRESSOR
LINCOLN WELDER
WELDING HELMETS
LASER LEVEL
3PT CEMENT MIXER
TROYBILT CHIPPER
(2) POWER WASHER
SEWER SNAKE ON TRAILER
GAS PUMP
(2) SAND BLASTER
ANTIQUE VICE ON BARREL
PROPANE TANK W/TORCH
1000-GAL LP TANK CONVERTED TO LIQ
STORAGE
2-AXLE TRAILER W/1000-GAL TANK
CINCINNATI FAN BLOWER ON TRAILER,
WISCONSIN MOTOR
TRACTOR CAB
MCCORMACK 3HP, 1H HT N MISS ENGINE
(30) GATES
VEHICLES
2002 HARLEY-DAVIDSON FLHRCI VIN
612664
2005 SUZUKI C80 MOTORCYCLE, VIN
103996
2004 SUZUKI C90 BOULEVARD
MOTORCYCLE, 15000 MILES
2006 FORD F150, EXT CAB, VIN N883243
1999 GMC 3500, 4X4, DSL, UTILITY BED,
NEW TIRES & TRANSMISSION, V-10, 12081
MILES, VIN F100018
1994 GMC SIERRA TRUCK, 3/4 TON, 4X4,
454 ENGINE
1993 GMC DIGGER TRUCK, DIESEL
3007 FREIGHTLINER COLUMB, 10 SPD, 14
LITER 60 SERIES DETROIT, AIR RIDE,
VIN LX3284
2005 IH 6600 DAYCAB, 10-SPD, C13 CAT
AIR RIDE, VIN 190957
2005 COLUMBI DAYCAB, VIN 40326
1994 GM KODIAK, 20" BOX, 16-SPD, 14
LITER 80 SERIES DETROIT, AIR RIDE,
VIN 102493
2007 NISSAN UD1200 BOX TRUCK, 16", VIN
502169
1993 IH 4800 BOX TRUCK, VIN 687284
1980 IH S SERIES, GAS, 544
TRANSMISSION, TWIN SCREW, 18"
ALUM GRAIN BED & HOIST, VIN A14153
2010 WILSON ALUM HOPPER BOTTOM
41" POWER TAPP, AIR RIDE, VIN 703688
2003 JET STEEL HOPPER BOTTOM, 22.5"
ROLL TAPP, AIR RIDE, VIN 000350
40" GOOSENECK FLATBED, TANDEM AXLE,
FLAT DOWN RAMPS, VIN 628834
2004 LOAD TRAIL GOOSENECK, 8X20,
TANDEM AXLE, VIN 172442
2008 DOOLITTLE FLATBED TRAILER,
84X18", VIN 068895
1991 FELLING BUMPER HITCH TRAILER,
28.5"X29.5" BEAVER TAIL W/FLIP
RAMPS, TANDEM DUAL, VIN 72537
2000 WITZCO DETACH TRAILER, VIN
000492
2000 MOTO 25" ALUMINUM GOOSENECK
FLATBED TRAILER, 12000 GVW, VIN
004197
BUMPER HITCH TRAILER, 5X10
1980 HONDA EXPRESS MOPED, VIN
224375
GOLF CARTS, ATVs & UTVs
(8) CUSTOM ELECTRIC GOLF CART
(19) 2012 YAMAHA DRIVE GAS GOLF
CART
2011 EZ-GO MFT1200 GAS GOLF CART
2010 EZ-GO REFRESHER 1200 GAS GOLF
CART
(3) 2009 EZ-GO REFRESHER 1200 GAS
GOLF CART
2008 EZ-GO REFRESHER 1200 GAS GOLF
CART
(6) 2007 EZ-GO SHUTTLE 4 PASSENGER
GAS GOLF CART
(4) 2007 EZ-GO ST SPORT 2+2 GAS GOLF
CART
(2) 2008 EZ-GO FREEDOM GAS GOLF
CART
(2) EZ-GO TXT 2+2 SHUTTLE GAS GOLF
CART
- (2) 2014 EZ-GO TXT ELEC GOLF CART
BAD BOY ELECTRIC GOLF CART
2017 BAD BOY STAMPEDE, 12 MILES, VIN
000222
CAN AM
CAM AM COMMANDER 1000XT
2010 KAWASAKI MULE 4010, DIESEL, PS,
585 HRS
(2) JD XUJY 6550 GATOR
(8) JD XUJY825I GATOR
(2) JD 625I GATOR
(3) JD 620I GATOR
JD XUJY50 GATOR
JD 4X2 GATOR W/72" BLADE, ELEC LIFT
(3) JD 4X2 GATOR
POLARIS RZR XP1000
POLARIS RANGER CREW XP900
(4) POLARIS RANGER 800
POLARIS RANGER 800EFI XP
POLARIS RANGER 800XP EPS
POLARIS RANGER 700XP DUMP BED,
WINCH, 4500 MILES
POLARIS RANGER 6X6 EFI
POLARIS RANGER EFI 500, CREW CAB,
640 HRS
(2) POLARIS RANGER 500
POLARIS RANGER 400 W/BLADE
POLARIS RANGER RZR LE300
POLARIS RANGER XP
KAWASAKI MULE 3010
KAWASAKI MULE
KAWASAKI PRAIRIE 300 W/FRONT BLADE
2017 KAWASAKI KSF50
KUBOTA RTV 1100
KUBOTA RTV 900WH
KUBOTA RTV X1100C
KUBOTA RTV900
ARCTIC CAT 400
ARCTIC CAT WILDCAT
60BCAT SIDE BY SIDE
60BCAT SIDE BY SIDE (AS IS)
BUSH HOG TH200, 245 HRS, 2WD
CUB CADET SIDE BY SIDE
HONDA TRX300
YAMAHA 4-WHEELER
YAMAHA 4X2100R
YAMAHA GRIZZLY
MONSTER MOTO MINI BIKE
SNOWMOBILE
LAWN & GARDEN
JD 2970R, 732 HRS
JD 2300A, 581 HRS
JD 2325M, 60", 554 HRS
(3) JD 2925A, 60"
JD 2918A, 286 HRS
JD 2850A, 1221 HRS
JD 2820A, 525 HRS
JD 2720, 60", 730 HRS
JD 2665
JD 2655 EZTRAK, 451 HRS
JD 2625E, 86 HRS
JD 2465
JD 2445, 54"
JD 2425
JD 2355E
(3) JD 2225, 42"
JD 2225, 42" (AS IS)
JD X758, DIESEL, 54", FRONT HYD BLADE,
3PT, PTO, 10 HRS
JD X744, 378 HRS
(2) JD X730
JD X724
(2) JD X540
JD X500, HYDRO, 48", 464 HRS
JD X500 W/BLADE
(3) JD X485
JD X475, AWS
JD X390
JD X340
JD X300
H4 JD X300
JD 57X48
JD 57X38
JD 55T16
JD 54B9E
JD 5240, 158 HRS
JD L1140
JD L1150
JD L4175
JD LA120
JD LA115
JD L110
JD GX85
JD GX255, 48"
JD G7235
JD D130
JD D110
(2) JD 697
JD F930 FRONT MOUNT
JD 777 ZTRAK, 850 HRS
JD 757, 80", TURF TIRES, 1266 HRS
JD 757 (AS IS)
(2) JD 737
JD WHP 52A WALK-BEHIND
(13) JD 681R STAND ON
(22) JD 652R STAND ON
JD 318
JD 318, 1200 HRS
JD 265, 48"
JD 216, 40"
JD 195C
JD 125
JD 110
BOWLENS
(2) COUNTRY CLIPPER
CRAFTSMAN LT1000
CRAFTSMAN YT4000
CRAFTSMAN YT4500
(6) CRAFTSMAN
CUB CADET 1000 SERIES
CUB CADET 2188
CUB CADET LT1050
CUB CADET LTX1040
CUB CADET LTX1042
(2) CUB CADET LTX1050
CUB CADET MTD
CUB CADET RZT S42
- CUB CADET 58031
CUB CADET TANK S280, 334 HRS
CUB CADET Z-FORCE S260
(2) CUB CADET ZF S248
(3) CUB CADET Z-FORCE
(2) CUB CADET ZTR
DIXIE CHOPPER 2760
DIXIE CHOPPER 2660, 60"
DIXIE CHOPPER CALIBER
DIXIE CHOPPER LT2000
(2) DIXIE CHOPPER
DUETZ MOWER W/ILLER
EXMARK LZ27, 1353 HRS
EXMARK QUEST
(3) EXMARK LAZER
(3) EXMARK
(2) EXMARK WALK-BEHIND
FERRIS IS3100
FERRIS IS2000
FERRIS IS1500
FERRIS IS700
FERRIS IS60Z
FERRIS EVOLUTION
FERRIS 3-WHEEL MOWER
GRASSHOPPER 720 FRIT MT, 61", 796 HRS
GRASSHOPPER 718
GRASSHOPPER 620
GRAVELLY PRO 200
GRAVELLY ZT1740 LG
HUSQVARNA MZ75I
HUSTLER SUPER Z, 60"
IH CUB 154 LD-BOY
JACOBSON
KUBOTA F2560, 72", 1822 HRS
KUBOTA F2690, 402 HRS
KUBOTA F3060
KUBOTA G1800, DIESEL, 54"
KUBOTA GR4200
KUBOTA GS1900
KUBOTA Z725
KUBOTA ZD21
(2) KUBOTA ZD21 (AS IS)
(2) KUBOTA ZD28 (AS IS)
(3) KUBOTA ZD326
LANDPRIDE, 52"
LESCO WALK-BEHIND
MTD Z2554
(2) NH LAWN MOWER
SCAG COMMERCIAL
SCAG STC48V
SCAG TIGER CUB
SIMPLICITY CITAATOR, 63 HRS
SIMPLICITY PREESTGE
(2) SIMPLICITY
SNAPPER PRO
(2) SNAPPER PRO S200XT, 61"
SNAPPER ZTR (AS IS)
(2) SPARTAN ZTR
SUTECH STEALTH, 401 HRS
SWINHER TRAIL MOWER
TORO 39078 COMMERCIAL WALK-BEHIND,
48"
TORO GRANDSTAND
TORO WALK-BEHIND W/SULKY
TROYBILT WIGRASS CAT'CHER, 42"
(3) WHEEL MOWER
WHITE LAWN MOWER
WOODS 1850 W/BAGGER
WOODS 6170
WOODS 72" MOWER
WRIGHT, 54", 1708 HRS
(2) YARD MACHINES
YARD-MAN 760
3PT SLICE SEEDER
TERRE HAUTE WASTEWATER SURPLUS
PLANT EQUIP WILL BE SOLD AT 12:30
2004 AG GATOR 1988, VIN 064042
2004 AG GATOR 1989, VIN 075019
1988 FORD COMBO-VAC N66, VIN A04478
1992 INTERNATIONAL VAC 4800, VIN
402042
1986 FORD F350, VIN B12355
1993 FORD E350 BOX VAN, VIN B67601
HOLE MIXER, VIN 1002-03370-42
IH 996
JD 8630
NEW SURPLUS ITEMS:
(12) 1" DEZURICK PLUG VALVES
(2) 8" DEZURICK PLUG VALVES
(1) 18" CLOW GATE VALVE
(2) 12" GATE VALVES
(3) 12" X 1" SPHERES
(1) 8" X 8" MULLER CHECK VALVE
(1) 8" X 8" CLOW CHECK VALVE
(1) 8" STOCKHAM CHECK VALVE
(2) 8" CRISPIN CHECK VALVES W/BACK
FLUSH
(1) 8" X 8" CLOW CHECK VALVE
(2) 12" DEZURICK PLUG VALVES
(2) EBBA IRON SERIES 1108DSC 8"
MEGA LUG
(7) EBBA IRON SERIES 1110DSC 10"
MEGA LUG
(2) USGI CHEMICAL FEED PUMPS
MODEL ENCORE 700
(1) VOGELSANG PUMP MODEL VX136-
1050MCH2
(1) VOGELSANG PUMP MODEL VX136-
1450MCH2
(2) SIGMA 4" GLAND PACKS
(1) WEG MOTOR MODEL 10036P405TS,
3PH 3550 RPM 100HP 208-230/460
FRAME 404/5TS
(1) WEG MOTOR MODEL 005360P3E182T,
3PH 3480 RPM 208-230/460 FRAME 182T
(1) WEG MOTOR MODEL 05012EP3E365T,
3PH 1180 RPM 50 HP 208-230/460
FRAME 364/5T
(1) WEG MOTOR MODEL 01012XP3E256T,
3PH 1175 RPM 10 HP

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The Graham Hollywood car is unique splash in tractor show

Mike Burkholder came to the Graham-Bradley and Sears Sold Farm Tractors Club gathering in Winamac, Ind., as part of the Northern Indiana Power From the Past tractor show. The show is held the third weekend each July.



WRENCHING TALES
By Cindy Ladage

While most of the Bradley equipment brought to the show were tractors, Mike, from Fort Wayne, brought his beautiful 1941 Graham Hollywood car that was manufactured by the Graham-Paige Motor Corp.

The car wasn't always this pristine. "I saw the car in *Hemmings Motor News*. It was in the Merrillville, Indiana, area back in 1974," he said. "This was a parts car; the owner was stealing everything good for his car. The engine had a cracked block."

The owner originally asked \$550. Mike said at this point the seller (and especially his wife) just wanted it out of his driveway: "When I went to look at it, he wasn't home. I left him a note and said, 'I'll give you \$300.' He called

me and said, 'I'll take \$350.'" With that number, they struck a deal. "This car has a Cord body from the firewall back, that's what got me," Mike said. "I had my work cut out; it was a basket case."

The Cord portion comes into play in a unique way. "There is no relationship between Cord and Graham, but Hupmobile acquired the body molds from Cord and went to Graham. They built the Graham Hollywoods and the Hupp Skylark."

The company history of the Grahams is rather fascinating. Before ever getting into the car business, there were three Graham brothers: Joseph B., Robert C., and Ray A. They were born on their family's farm in Washington, Ind. Before building cars, they were making trucks and buses and, at one time, were considered the largest exclusive truck manufacturer in the world.

In April 1926, they sold their Dodge stock and started their own automo-

MIKE BURKHOLDER with his 1941 Graham Hollywood car at the Winamac, Ind., show in mid-July.

(Cindy Ladage photo)

bile company. It was right before World War II that the Graham-Bradley tractors were built.

The Graham Hollywood was one of the cars they built using the molds built by Hupmobile when they couldn't get their car into production. This cool car featured a six-cylinder Graham-designed engine. The cars were built from May-Sept. 1940; then, Graham-Paige switched to building military items in support of the war.

Mike's friend Dick Michelhaugh is a huge Graham-Paige history buff, and shared that in 1945, Henry J. Kaiser and Joseph Frazer became the owners of the Graham-Paige assets and the company became known as Kaiser-Frazer. Graham's facilities were sold to the Chrysler Corp.

After the war, in 1945, Graham-Paige resumed production of cars and the



new car was named the Frazer in honor of the new president of the company. Eventually Graham-Paige went into real estate building and in 1962 it changed its name to Madison Square Garden Corp., which is still in business.

So Mike had this Graham Hollywood car with a lot of potential, but when he purchased it in 1974, it had been robbed of many of the parts that made it beautiful. When he brought it home, he reported his wife asked, "What is that piece of trash?"

He said, "That's my retirement check."

While that marriage didn't last, his second wife, Mariann, who he has been with since 1977, loves the car and together they have driven it 71,000 miles.

Working on the car, Mike said it was fortunate that he lives close to Auburn, where the Graham parts warehouse was located. "We traded," he explained. "I overhauled a forklift engine and (the owner) gave me parts. His dad was overhauling Graham rototillers." (Rototillers were another agricultural product made under the Graham umbrella over the years.)

Restoring the car to its present glory took time. "It took nine years to restore the car, and you are never really done," Mike mused.

He is also a member of the Graham Club International (www.grahamownersclub.com), which is dedicated to "the preservation and restoration of all Graham-built vehicles and to the bringing together, in good fellowship, all those who admire them."

He and Mariann attend these events together. "Last year we went to Australia. They make it a vacation. We meet at 10, and then we start touring. The chairman designs a route, so it is a great vacation," Mike said.

Readers with questions or comments for Cindy Ladage may write to her in care of this publication. Learn more of Cindy's finds and travel in her blog, "Traveling Adventures of a Farm Girl," at <http://travelingadventuresofafarmgirl.com>

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