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## Study: Public funding is stagnant for ag R&D

By TIM ALEXANDER  
Illinois Correspondent

WASHINGTON, D.C.— A March 25 panel discussion hosted by the American Farm Bureau Federation (AFBF) and Farm Journal Foundation called attention to stagnant public funding for agricultural research that poses risks to farm productivity, profitability, and safety. Discussing a recently commissioned AFBF-Farm Journal report that highlights the importance of public funding for agricultural research and development (R&D) were AFBF President Zippy Duvall, Illinois Rep. Rodney Davis (R-Bloomington-Normal), California Rep. Jimmy Panetta (D-Carmel Valley), Dan Glickman, Distinguished Fellow, the Chicago Council on Global Affairs, and others.

“COVID-19 should be a wake-up call that more public research funding is needed to address unexpected shocks,” said Tricia Beal, CEO of Farm Journal Foundation. “The pandemic created huge challenges for agricultural supply chains around the world. It also showed just how quickly pathogens can spread. Increased public support for agricultural research is crucial for finding solutions to make our entire food system more resilient.”

The report, authored by the IHS Markit Agribusiness Consulting Group, found that public R&D investment has remained flat over the past decade while U.S. competitors including China, Brazil and India have accelerated public funding for agricultural R&D. Public research spending is vital to filling the gaps in private investment dollars, which are often directed to high-value opportunities in major crop and livestock categories that generate profits, the study asserts.

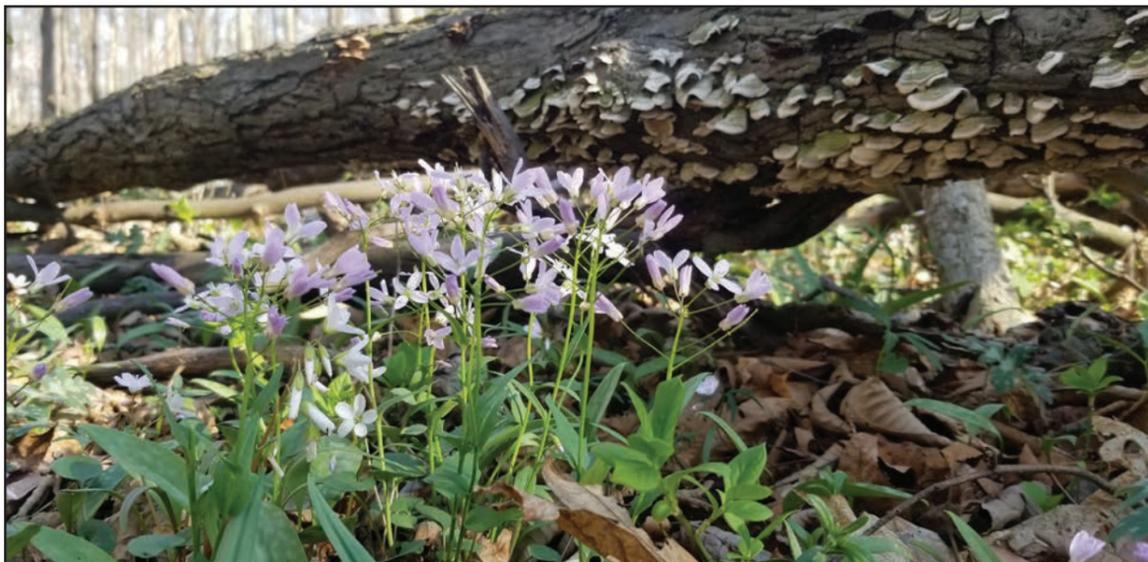
Farmers and stakeholders would particularly benefit from additional public research spending in the areas of crop breeding, crop protection, animal health, animal disease and foodborne illness, climate research and food and agricultural supply chains.

“The U.S. has always been a leader in agricultural innovation, but we’re at risk of losing that advantage by falling behind the rest of the world in research and development,” said Duvall. “This report shows the clear need for agricultural research to benefit not only farmers, but our entire food system and every person who eats. Research will unlock the answers to growing more crops even as we face increasingly volatile weather, help to create a more resilient food system supply chain, and provide food that’s higher in nutritional value. It’s the golden ticket.”

The study further concludes that public research will be key in feeding a growing world population, which is expected to reach 10 billion by 2050. To meet the projected demand, food production will need to increase by 60 to 70 percent — a goal that can only be attained by pushing more money into public agricultural research.

There are currently five research agencies under the umbrella of the USDA: The Agricultural Research Service, the National Institute of Food and Agriculture, the Forest Service, The Economic Research Service, and the

(Funding continued on page 4)



Above: Scattered showers may have been hampering farm work in parts of the Midwest, but the rain was welcome to the spring flowers that are now popping up in the woods. Photo by Leondia Walchle.

## Planting is getting underway as farmers look at soil temperature and moisture

By DOUG SCHMITZ  
Iowa Correspondent

WASHINGTON, D.C. – U.S. growers have already started planting barley, corn, cotton, oats, rice, sorghum, spring wheat, and sugar beets, according to the very first weekly crop and weather report of the 2021 planting season.

“By this time last year, 2 percent of the corn crop had been planted; 2 percent has been planted so far in 2021,” said the USDA Crop Progress Report, released April 5. “Six percent of the cotton crop has been planted, 1 (percent) behind the same time last year.

“Fourteen percent of the sorghum crop has been planted, 1 (percent) behind a year ago,” the report added. “Barley, oats, rice, spring wheat and sugar beet plantings are similar to 2020 progress.”

The USDA crop progress reports are released the first workday of the week during the growing season from April through November.

The reports also list planting, developmental, and harvesting progress, and overall condition of selected crops in major producing states. Crops featured include corn, soybeans, wheat, rice, sorghum, cotton, oats, barley, peanuts, sugar beets, and sunflowers.

In addition, the reports document soil moisture condition, days suitable for fieldwork, and pasture and range condition. These reports cover planting and harvesting activities, crop development, weather data, and timely crop management information provided by farmers, the USDA, and state university experts.

In Illinois, there were 3.6 suitable days for field work during the week ending April 4. Statewide, the average temperature was 45.6 degrees, and precipitation averaged 0.04 inches, 0.84 inches below normal.

Illinois winter wheat headed was 2 percent, up 1 percent over the 5-year average. Winter wheat condition was rated 4 percent very poor, to 13 percent excellent.

In Indiana, a relatively dry week helped bring soil moisture levels down to more moderate levels after what had been a wet March for much of the state, said Nathaniel Warenski, state statistician.

He said the average temperature for the week was 44.1 degrees Fahrenheit, 3.4 degrees below normal for the state; the amount of rainfall varied from none to 0.67 inches over the week.

“Relatively dry conditions over the past week allowed growers to make progress with tillage and fertilizer applications, though moisture from the previous week’s rainfall limited fieldwork in some areas,” he said.

“Winter wheat crop conditions were higher than both last year and the five-year average, with 69 percent rated in good to excellent condition,” he said.

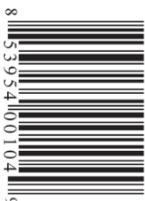
In Iowa, warm and dry days allowed farmers 4.3 suitable days for fieldwork, which included applying anhydrous and fertilizer, spreading manure, and planting oats.

“With recent warm and dry conditions across the state, many farmers are eager to begin fieldwork, with an eye towards planting,” said Iowa Agriculture Secretary Mike Naig.

“Farmers should be cautious though as cold snaps and a late spring freeze are possible through the end of April,” he added. “Chances of rain are also back in the forecast.”

State Climatologist Justin Glisan said, “Drought and abnormally dry conditions cover about 41 percent of Iowa, which is the lowest extent since the end of June 2020.”

(Planting continued on page 2)



**Minford FFA to use Bicentennial Barn as learning lab - Page 1B**



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- Building a brand: Local dairy farm finds success in ice cream. Page 9B
- MidWestern Ag Leaders stress importance of Covid Vaccine Page 3

## Planting

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The state's crop and weather report also said 12 percent of the expected oat crop has been planted, 3 days ahead of last year.

In Kentucky, cold temperatures were prevalent through most of the week before giving way to warm weather over the weekend ending April 4, said David Knopf, USDA field office director in Louisville.

"The warm up allowed farmers to resume spraying and fertilizing fields for the 2021 crop season," he said. "A very small amount of corn has been planted at this juncture; however, farmers will ramp up fieldwork in the coming weeks."

He said winter wheat is in mostly good condition at this time; however, there were multiple nights of sub-freezing temperatures across the state.

"With that said, very little freeze damage is reported currently," he said. "Alfalfa also shows very little freeze damage; however, for both crops, the damage may not be readily apparent. Strawberries were susceptible to the untimely freeze, and, like alfalfa and wheat, will be monitored over the foreseeable future."

In Michigan, much of the state experienced a fairly mild and dry week, marked by various reports of early field work, said Marlo Johnson, USDA Great Lakes Regional Office director.

"Winter wheat condition looked promising, with a reported 69 percent of the crop rated in good to excellent condition," she said. "Dry conditions allowed some growers to begin seeding early oats. Sugar beet producers also took advantage of the cooperative conditions, and began planting."

"After a very cold trend in February, much warmer-than-normal temperatures in March pushed growing degree day totals higher than normal," she added. "Temperatures crashed late in March, and fruit growers were checking for damage. A drier-than-normal March allowed for good progress in pruning. First green tissue on early apple varieties was observed on the Ridge."

Like Michigan, Ohio's 2021 growing season began with cooler and drier than last spring, leading to more opportunities for fieldwork, said Cheryl Turner, state statistician.

"To start the season, producers readied equipment for planting, hauled manure, and performed tillage," she said. "Topsoil conditions were drier this year in comparison to last year."

"Oats were 9 percent planted, compared to 8 percent last year," she added. "Winter wheat jointing was 3 percent, while the winter wheat crop was rated 77 percent good to excellent condition."

In Tennessee, heavy rains resulting in widespread flooding caused limited field work, the state's crop and weather report said.

"Damage from the flooding is still being assessed," the report said. "Those that were able to work in the fields applied anhydrous ammonia and burn-down applications in preparation for planting."

"Fall-planted wheat is reported in mostly good condition, despite potential impacts from flooding, and two freeze events," the report added. "Corn planting is expected to start in full force in the coming weeks as weather allows," with 3.4 suitable days for field work.

For the spring 2021 planting season outlook, Glisan said the final April climatological outlooks issued by the Climate Prediction Center show elevated chances of warmer-than-average temperatures for most of the United States, including the High Plains, the Midwest, and the Appalachians.

"On the precipitation front, there is no clear signal for Iowa, the Midwest or the Appalachians; outlooks continue to show a moderate La Niña configuration, with above-average probabilities of dryness from the High Plains into the Desert Southwest," he said.

"La Niña is forecasted to persist through early spring, with an 80-percent chance of transitioning into a neutral phase of El Niño-Southern Oscillation during late spring and early summer," he said.

An El Niño-Southern Oscillation is a periodic fluctuation in sea surface temperature (El Niño) and the air pressure of the overlying atmosphere (Southern Oscillation) across the equatorial Pacific Ocean.

"Seasonal composites of rainfall behavior into summer show that if La Niña is present, drier conditions could prevail across portions of the Midwest," Glisan said.

Dennis Todey, director of the USDA Midwest Climate Hub in Ames, Iowa, said, "Currently, the planting season over most of the Corn Belt should go well once we get past the cold period coming" in the next week.

"Soils are wet only in small areas, and the dryness right now is just enough to allow for quicker planting," he told Farm World. "Soil temperatures are also in pretty good shape."

"Our concern 4-6 weeks ago was that we had dry soils, and the summer outlook included some hotter-drier possibilities," he added. "We have added some soil moisture, but the risk for the season is still valid. The risk of hotter and drier is higher further into the Plains, but does cover more of the Corn Belt as the season goes along."

He said there will be some colder conditions coming into this week (starting April 12) that will slow soil warming.

"I expect some planting will start,

but more will go in earnest the latter part of the week," he said. "The outlook is relatively dry, so soils should still be available to plant readily."

However, he said he has some mild concerns right now about the current drought areas in the central-eastern

Corn Belt, and the Appalachians.

"The larger concern is as the summer continues," he said. "Overall, outlooks lean toward warm through the season. Precipitation risk is more of a problem in western areas, less of a concern east right now."

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# Midwestern Ag leaders stress importance of COVID vaccine

By CELESTE BAUMGARTNER  
Ohio Correspondent

REYNOLDSBURG, Ohio — Dorothy Pelanda, director, Ohio Dept. of Agriculture, joined with other Midwest agriculture leaders in making a video to spread the message that getting a COVID-19 vaccination was important.

"When you're eligible it's important to get vaccinated," said Randy Romanski, Secretary-designee, Wisconsin Dept. of Agriculture.

"We all want to be part of the solution," continued Pelanda.

"It's a tremendous opportunity to get vaccinated, to protect yourself but also the public," added Thom Peterson, Commissioner, Minnesota Dept. of Agriculture.

"If we want to get back to face-to-face interaction," said Jerry Costello II, Director, Illinois Dept. of Agriculture, "this is an essential tool," continued Dr. Ryan Quarles, Commissioner, Kentucky Dept. of Agriculture.

"It's so important to protect each other, to protect our food supply system," explained Gary McDowell, Director, Michigan Dept. of Agriculture.

In tag-team fashion, the ag leaders went on to say that the vaccine protects not only your own health but the health of the communities. The best science and data say it's completely safe and it's important to protect each other and to protect the food supply system.

It is still vital to continue the preventative measures everyone has become so familiar with, the leaders

said. But there is light at the end of the tunnel. It's a time to be extra vigilant, not to let up on wearing a mask, social distancing, and hand washing.

This joint video came about largely because, about a year ago, McDowell called Pelanda and the other leaders and suggested, that even though they were all part of a national organization, perhaps the Midwestern leaders should meet monthly to talk about things that are occurring in the Midwest.

"Enthusiastically I said yes and I look forward to that meeting monthly," Pelanda said. "We bounce ideas off of each other, work together as a team to ensure our farmers and communities are staying healthy and safe. Really, the collaboration, the sharing of information has been fantastic."

McDowell leads the agenda at the monthly meeting, Pelanda said. All the leaders have an opportunity to add things to the next month's agenda.

The leaders knew that many in the agricultural business look to their state agriculture directors and commissioners for guidance and advice. So they wanted to stress that they know the vaccines available to Americans are safe.

"That was the motivation behind all of us getting together in one unified voice to say that we have a tremendous opportunity to get vaccinated thus protecting ourselves, and the public," Pelanda said. "We want to be part of the solution so we can all get back to work and to make sure that we, as part of the critical food chain process, are moving forward as quickly as possible."



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# Funding

FROM PAGE 1

National Agricultural Statistics Service. Between these five agencies, there is currently around \$4.2 billion budgeted for agricultural research, compared to a similar \$4.1 billion in 2010, according to Scott Bennett, AFBF congressional relations director.

"Other countries are boosting their public investment in agriculture. China became the largest funder of public agricultural research and development globally in 2009 with their funding increasing significantly since then. India and Brazil have also recently increased their public agricultural research and development funding. It is imperative that we increase our public research, so our farmers have the latest and greatest tools to feed the world," Bennett said.

Data provided by the USDA Economic Research Service shows that public agricultural R&D investment peaked in 2002 at \$6.045 billion, followed by 12 consecutive years of declining investment before bottoming out in 2014. Since then, public ag R&D investment has remained flat. Coincidentally, in 2014 both private food and agriculture and private ag input research investment values reached their plateaus.

Studies consistently find high returns (commonly, 20-60 percent) from public funded agricultural research, according to a study published by the University of Illinois. "While some countries, notably China, are increasing public funds, inflation-adjusted U.S. funds have declined since around 2005, with declines in actual dollars spent in more recent years," according to the

2017 report, Public Funding of Agricultural Research: Assessment and Suggested New Paradigm, authored by Carl Zulauf, Department of Agricultural, Environmental and Development Economic at Ohio State University, and Constance Cullman, Dept. of Agricultural and Consumer Economics at the University of Illinois.

"Since the Hatch Act was enacted in 1887, public funding of agricultural research has been a U.S. priority and often is cited as a cornerstone for U.S. agricultural abundance. Public funding currently is centered in Title VII of the Agricultural Act of 2014. Researchers and some stakeholders contend Title VII is inadequately funded to meet today's need to produce more using sustainable methods," the U of I report reads, in part.

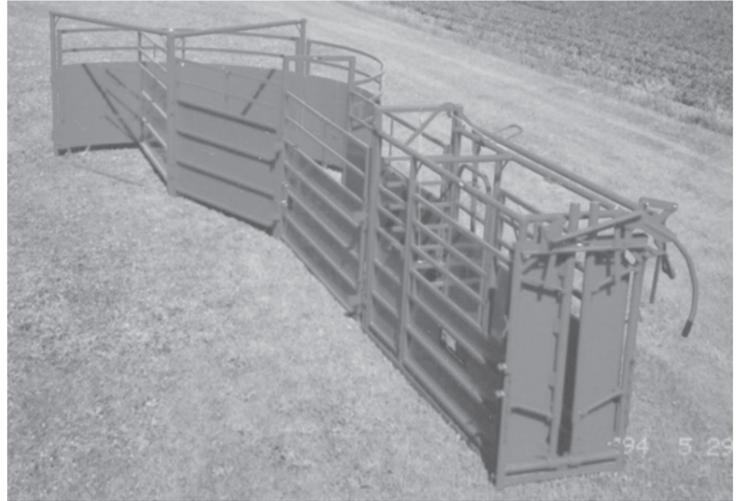
A common explanation for the steady erosion in public funding for farm research R&D, according to Zulauf and Cullman, is "high private market returns to agricultural research, especially with the extension of intellectual property rights to biological innovations and increasing agricultural production and trade around the world.

"Indeed, U.S. private sector spending on agricultural research has increased, nearly doubling since 2003. Other factors may be more important. U.S. consumers now spend under two percent of their income on the U.S. produced farm value of food; it was 12 percent in 1947. As a result, the long-standing mantra of public agricultural research, 'growing two blades of grass where one grew before' no longer resonates, resulting in waning societal support."

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	This Week	Last Reported 3/29/2021	Last Year
Total Receipts:	786	1,226	599
Feeder Cattle:	686(87.3%)	1,109(90.5%)	527(88.0%)
Slaughter Cattle:	90(11.5%)	99(8.1%)	72(12.0%)
Replacement Cattle:	10(1.3%)	18(1.5%)	0(0.0%)

Special Note: Removed entry showing 115 lbs slaughter cows.

COWS - Boner 80-85% (Per Cwt / Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price	Dressing
15	115-1520	1222	60.00-65.00	63.97	Average

Compared to last Monday feeder steers under 600 lbs sold 1.00 to 3.00 higher; 600-800 lbs sharply higher with very good demand. Feeder heifers sold 3.00 to 5.00 higher with very good demand. Quality was good through attractive. Slaughter cows sold 2.00 to 3.00 higher and slaughter bulls sold 3.00 higher with good demand. Supply included: 87% Feeder Cattle (45% Steers, 45% Heifers, 10% Bulls); 11% Slaughter Cattle (87% Cows, 13% Bulls); 1% Replacement Cattle (88% Bred Cows, 13% Cow-Calf Pairs). Feeder cattle supply over 600 lbs was 45%.

Groups of 20 head or more:

Head	Wt Range	Avg Wt	Price Range	Avg Price
30 head	660 lbs 161.50 Blk Few Mixed Value-Added			
22 head	622 lbs 140.25 Blk Value-Added			
30 head	768 lbs 125.00 Blk-Mixed Value-Added			

### FEEDER CATTLE

STEERS - Medium and Large 1-2 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
1	295	295	169.00	169.00
2	255-275	265	185.00	185.00 Value Added
5	335-347	340	164.00-169.00	166.04
4	315-340	331	184.00-189.00	185.69 Value Added
5	365-390	373	164.00-181.00	175.47
8	353	353	197.00	197.00 Value Added
4	445-447	446	156.00-157.00	156.50
27	410-443	433	160.00-189.00	178.90 Value Added
4	460-470	464	150.00-159.00	154.27
23	455-495	477	161.00-172.00	166.07 Value Added
17	505-543	518	160.00-166.00	162.48 Value Added
9	550-595	563	150.00-155.00	151.48
26	565-599	589	155.00-170.00	163.43 Value Added
5	605-625	613	141.00-149.00	146.80
25	600-641	615	147.00-156.00	151.14 Value Added
5	660-677	668	132.00-139.00	136.82
40	650-695	665	140.00-161.50	159.53 Value Added
3	700-745	730	125.00-129.00	127.72
10	700-740	723	134.00-136.00	135.21 Value Added
3	760-785	775	129.00-132.00	130.66
22	751-775	755	137.00-147.00	144.51 Value Added
17	805-816	813	127.00-134.00	133.59
13	862-879	876	126.50-129.50	126.95
1	900	900	118.00	118.00

STEERS - Medium and Large 2-3 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
1	315	315	149.00	149.00
3	555	555	145.00	145.00
1	600	600	135.00	135.00

HEIFERS - Medium and Large 1-2 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
1	200	200	150.00	150.00 Value Added
1	250	250	145.00	145.00 Value Added
2	325-340	333	151.00-155.00	152.95 Value Added
1	370	370	139.00	139.00
24	350-395	368	149.00-160.00	155.09 Value Added
38	402-448	434	135.00-161.50	151.41 Value Added
4	460-495	479	132.00-136.00	133.73
22	455-487	470	137.00-150.00	144.89 Value Added
5	523-530	524	126.00-130.00	126.81
25	500-546	526	133.00-141.00	137.51 Value Added
10	552-592	568	128.00-131.00	129.22
24	555-592	574	132.50-140.00	135.69 Value Added
7	617-648	634	111.00-124.00	117.17
30	604-622	618	127.00-140.25	138.86 Value Added
14	650-695	663	112.00-120.00	115.58
5	663	663	128.00	128.00 Value Added
3	700-730	713	103.00-108.00	104.64
12	700-748	722	113.00-120.00	116.86 Guaranteed Open
32	768-772	768	125.00	125.00 Value Added
1	800	800	94.00	94.00
2	805	805	111.00	111.00 Guaranteed Open
1	900	900	90.00	90.00
7	920	920	113.00	113.00 Guaranteed Open

HEIFERS - Medium and Large 2-3 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
1	355	355	132.00	132.00
2	475	475	132.00	132.00
4	550-595	584	120.00-123.00	122.29
3	656	656	106.00	106.00
1	720	720	99.00	99.00

HEIFERS - Large 1-2 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
1	470	470	129.00	129.00
2	707	707	103.00	103.00

BULLS - Medium and Large 1-2 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
4	360-386	380	174.00-180.00	178.58
2	415-425	420	145.00-151.00	147.96
7	460-495	475	148.00-158.00	153.02
3	480-487	485	161.00-164.00	163.01 Value Added
6	500-530	517	143.00-152.00	145.50
3	535	535	155.00	155.00 Value Added
10	550-590	559	146.00-152.00	150.05
4	575-581	580	155.00-158.00	157.26 Value Added
1	635	635	134.00	134.00
4	600-642	621	136.00-139.00	137.76 Value Added
2	650-655	653	130.00-134.00	132.01
11	665-680	671	136.00-145.00	140.03 Value Added
1	720	720	121.00	121.00

BULLS - Large 1-2 (Per Cwt / Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price	Dressing
1	340	340	152.00	152.00	
1	465	465	139.00	139.00	

BULLS - Medium and Large 2-3 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
1	340	340	152.00	152.00
1	465	465	139.00	139.00

BULLS - Large 1-2 (Per Cwt/Actual Wt)

Head	Wt Range	Avg Wt	Price Range	Avg Price
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# MARKETS

## Missouri Direct Hay Report

### Direct Hay Weighted Average Report

For week ending Friday, April 9, 2021

Many farmers got back into the fields early this week. Fertilizer was being spread although there was some areas in which there was reports that suppliers were out and waiting for more to arrive. Some corn planting also took place. Work was halted midweek however as rains passed over the state. Some reports of alfalfa being cut in neighboring states such as OK. Some of those producers saying it was a week or two early but weevils had already showed up so it was a cut or spray decision. The supply of hay is moderate, demand is light to moderate and prices are steady. The Missouri Department of Agriculture has a hay directory visit <http://mda.mo.gov/abd/haydirectory/> for listings of hay <http://agebb.missouri.edu/haylst/>

HAY (Conventional)	
Region/Location	Price Range
Alfalfa - Supreme (Ask/Per Ton)	
Medium Square 3x3	200.00-250.00
Alfalfa - Supreme (Ask/Per Bale)	
Small Square	7.00-10.00
Alfalfa - Premium (Ask/Per Ton)	
Medium Square 3x3	160.00-200.00
Alfalfa - Good (Ask/Per Ton)	
Large Round	120.00-160.00
Alfalfa - Good (Ask/Per Bale)	
Small Square	5.00-7.00
Alfalfa - Fair (Ask/Per Ton)	
Large Round	100.00-125.00
Alfalfa/Grass Mix - Good/Premium (Ask/Per Bale)	
Small Square	6.00-8.00
Mixed Grass - Good/Premium (Ask/Per Ton)	
Large Round	80.00-120.00
Mixed Grass - Fair/Good (Ask/Per Ton)	
Large Round	60.00-80.00
Mixed Grass - Fair/Good (Ask/Per Bale)	
Small Square	3.00-6.00
Mixed Grass - Fair (Ask/Per Bale)	
Large Round	20.00-50.00
STRAW (Conventional)	
Wheat - (Ask/Per Bale)	
Small Square	4.00-6.00

Source: USDA AMS Livestock, Poultry & Grain Market News  
MO Dept of Ag Market News  
Jefferson City, MO | (573) 751-5618  
<https://mymarketnews.ams.usda.gov/>  
[www.ams.usda.gov/lpgmn](http://www.ams.usda.gov/lpgmn)  
<https://mymarketnews.ams.usda.gov/viewReport/2929>

## Kentucky Daily Grain Bids

Grain Report for Friday, April 9, 2021

Exchange	Commodity	FUTURE SETTLEMENTS	
		Closing Settlement Prices (¢/bu) as of 2/19/2021	
CBOT	Corn	577.25 (May 21) 562.75 (Jul 21) 510.75 (Sep 21)	510.75 (Sep 21) 496.50 (Dec 21) 503.50 (Mar 22) 508.00 (May 22) 509.75 (Jul 22)
CBOT	Soybeans	1403.00 (May 21) 1398.25 (Jul 21) 1362.00 (Aug 21)	1292.25 (Sep 21) 1263.25 (Nov 21) 1262.00 (Jan 22) 1235.00 (Mar 22)
CBOT	Wheat	638.75 (May 21) 640.50 (Jul 21) 641.50 (Sep 21)	646.00 (Dec 21) 649.50 (Mar 22) 647.00 (May 22) 623.75 (Jul 22)
CBOT	White Oats	373.75 (May 21) 372.25 (Jul 21) 352.50 (Sep 21)	349.00 (Dec 21) 351.50 (Mar 22) 350.25 (May 22) 350.25 (Jul 22)
KCBT	Wheat	586.50 (May 21) 594.25 (Jul 21) 600.75 (Sep 21)	610.50 (Dec 21) 619.75 (Mar 22) 623.00 (May 22) 608.00 (Jul 22)

US #2 WHITE CORN (BULK)					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Ohio River - Lower KY	10.00Z	UNCH	5.0650	UP 0.0175	5.0650
Purchase	17.00K	UNCH	5.9425	DN 0.0250	5.9425
Purchase	5.00Z to 20.00Z	UNCH	5.0150-5.1650	UP 0.0175	5.0900

US #2 YELLOW CORN (BULK)					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Purchase	20.00K	UNCH	5.9725	DN 0.0250	5.9725
Purchase	-15.00Z to 0.00U	UNCH	4.8150-5.1075	UP 0.0175-UP 0.0075	4.9613
Green River	37.00N	UNCH	5.9975	UP 0.0075	5.9975
Green River	-5.00Z	UNCH	4.9150	UP 0.0175	4.9150
Pennyrille	15.00K to 25.00K	UNCH	5.9225-6.0225	DN 0.0250	5.9725
Pennyrille	-10.00Z to 0.00Z	UNCH	4.8650-4.9650	UP 0.0175	4.9150
Louisville	14.00K	UNCH	5.9125	DN 0.0250	5.9125
Louisville	-20.00Z	UNCH	4.7650	UP 0.0175	4.7650
Bluegrass	0.00N	UNCH	5.6275	UP 0.0075	5.6275
Bluegrass	-25.00Z	UNCH	4.7150	UP 0.0175	4.7150
Barge Loading Elevators - Conventional					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Ohio River - Upper KY	20.00K	DN 2.00	5.9725	DN 0.0450	5.9725
Ohio River - Upper KY	-15.00Z	UNCH	4.8150	UP 0.0175	4.8150
Ohio River - Lower KY	24.00K to 28.00K	UNCH-UP 3.00	6.0125-6.0525	DN 0.0250-UP 0.0050	6.0275
Ohio River - Lower KY	-5.00Z to 0.00U	UNCH	4.9150-5.1075	UP 0.0175-UP 0.0075	4.9681
Purchase	22.00K to 32.00K	UNCH	5.9925-6.0925	DN 0.0250	6.0592
Purchase	-8.00Z to 10.00U	UNCH	4.8850-5.2075	UP 0.0175-UP 0.0075	5.0106

US #2 SORGHUM (BULK)					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Ohio River - Lower KY	75.00Z	UNCH	5.7150	UP 0.0175	5.7150
Purchase	94.00Z	UNCH	5.9050	UP 0.0175	5.9050

US #1 SOYBEANS (BULK)					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Purchase	2.00K to 13.00K	UNCH-UP 4.00	14.0500-14.1600	DN 0.1225-DN 0.0825	14.0967
Purchase	0.00K to 5.00X	UNCH	12.6325-12.6825	DN 0.1000	12.6575
Green River	0.00K	UNCH	14.0300	DN 0.1225	14.0300
Green River	-15.00X	UNCH	12.4825	DN 0.1000	12.4825
Pennyrille	-30.00K to -15.00K	UNCH	13.7300-13.8800	DN 0.1225	13.8050
Pennyrille	-25.00X to -10.00X	UNCH	12.3825-12.5325	DN 0.1000	12.4575
Louisville	-51.00K	UNCH	13.5200	DN 0.1225	13.5200
Louisville	-62.00X	UNCH	12.0125	DN 0.1000	12.0125
Bluegrass	-30.00K	UNCH	13.7300	DN 0.1225	13.7300
Bluegrass	-45.00X	UNCH	12.1825	DN 0.1000	12.1825
Barge Loading Elevators - Conventional					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Ohio River - Upper KY	4.00K	UNCH	14.0700	DN 0.1225	14.0700
Ohio River - Upper KY	-9.00X	UNCH	12.5425	DN 0.1000	12.5425
Ohio River - Lower KY	5.00K to 18.00K	UNCH-DN 1.00	14.0800-14.2100	DN 0.1225-DN 0.1325	14.1433
Ohio River - Lower KY	3.00X to 11.00X	UNCH	12.6625-12.7425	DN 0.1000	12.7075
Purchase	1.00K to 23.00K	UP 2.00-UNCH	14.0400-14.2600	DN 0.1025-DN 0.1225	14.1775
Purchase	3.00X to 20.00X	UNCH	12.6625-12.8325	DN 0.1000	12.7800

US #1 MILLING SOFT RED WINTER WHEAT FOOD GRADE (BULK)					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Pennyrille	35.00K	UNCH	6.7375	UP 0.1000	6.7375
Pennyrille	10.00N	UNCH	6.5050	UP 0.1000	6.5050

US #2 SOFT RED WINTER WHEAT (BULK)					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Purchase	0.00N to 7.00N	UNCH	6.4050-6.4750	UP 0.1000	6.4400
Green River	-15.00N	UNCH	6.2550	UP 0.1000	6.2550
Pennyrille	5.00K to 10.00K	UNCH	6.4375-6.4875	UP 0.1000	6.4625
Pennyrille	-35.00N to -20.00N	UNCH	6.0550-6.2050	UP 0.1000	6.1300
Louisville	-42.00N	UNCH	5.9850	UP 0.1000	5.9850
Bluegrass	-25.00N	UNCH	6.1550	UP 0.1000	6.1550
Barge Loading Elevators - Conventional					
Region/Location	Basic (¢/Bu)	Basis Change	Price (\$/Bu)	Price Change	Average
Ohio River - Upper KY	12.00N	UP 8.00	6.5250	UP 0.1800	6.5250
Ohio River - Lower KY	15.00N to 22.00N	UNCH	6.5550-6.6250	UP 0.1000	6.6000
Purchase	8.00K	UNCH	6.4675	UP 0.1000	6.4675
Purchase	8.00N to 22.00N	UNCH	6.4850-6.6250	UP 0.1000	6.5675

Source: USDA-AMS Livestock, Poultry & Grain Market News  
KY Dept. of Ag Market News-Kevin Bowling, Market Reporter  
Frankfort, KY - (502) 782-4139  
[www.ams.usda.gov/lpgmn](http://www.ams.usda.gov/lpgmn)  
<https://mymarketnews.ams.usda.gov/> | <https://mymarketnews.ams.usda.gov/viewReports/2892>

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WE ACCEPT LIVESTOCK FROM 8:00 AM TO 12:00 NOON.  
CALL IF YOU NEED TO MAKE SPECIAL ARRANGEMENTS TO DROP LIVESTOCK OFF ANY OTHER TIMES FRI. OR SAT.  
Misc. small animals at 9 AM; Hay & Straw at 11 AM.  
\*\*We Are No Longer Accepting Pot Belly Pigs At Our Sale. Sorry For Any Inconvenience.  
\*\*\*WE WILL BE HAVING A "BRED COW SATURDAY," ALONG WITH COW-CALF PAIRS. WE WILL BE HOLDING THESE SALES EVERY OTHER MONTH. THE SPECIFIC DATES WILL BE POSTED. WE WILL HAVE A YET TO PREG CHECK ANY BRED COWS THAT COME IN, AND WE WILL SELL THE BRED COWS AT 2:00. THE REMAINDER OF THE SALE WILL GO ON AS A NORMAL SATURDAY SALE, STARTING AT NOON. WE WILL ACCEPT BRED COWS UP UNTIL 11:00 A.M. ON THOSE SATURDAY MORNINGS, AT WHICH TIME THE YET WILL START CHECKING THE COWS. THE COST FOR THE YET TO PREG CHECK IS \$10/COW. CALL US IF YOU WOULD LIKE US TO CONSIGN AND ADVERTISE IN THE FARMWORLD AND ON FACEBOOK.  
Hay \$3-\$5.50; Goats \$100-\$400; Lambs 55 Lbs \$345, 80 Lbs \$305; Rams 120 Lbs. \$147, 170 Lbs. \$125; Feeder Pigs \$29-\$75; Hogs 178-185 Lbs. \$60-\$66, 218-240 Lbs. \$72-\$73, 345-452 Lbs. \$72-\$75.50; Sows 288-380 Lbs. \$23-\$70, 420-476 Lbs. \$47-\$68, 568-600 Lbs. \$50-\$78; Butcher Boars \$15-\$20; Baby Clvs/Hd \$65-\$190; Dollar Clvs/Hd \$360; Cow Cf Pair \$1100; BRED COW SALE RESULTS (26 HD): Blk 740 Lbs. \$840, Rwf 915 Lbs. \$760, Char 955 Lbs. \$800, Red 965 Lbs. \$910, Blk 1090 Lbs. \$820, Blk/Bwf 1115-1195 Lbs. \$920-\$1282, Blk 1215 Lbs. \$1040, Red 1385 Lbs. \$1060; Blk 1420 Lbs. \$1050, Char/Sim Cross 1460 Lbs. \$1110, Red 1580 \$1100; Feeder Cattle: Char Hfr 273 Lbs. \$141, Red Hfr 275 Lbs. \$132, Wf Hfr 375 Lbs. \$103, Blk Hfr 465 Lbs. \$101, Blk Hfr 487 Lbs. \$175, Blk Hfr 499-698 Lbs. \$126-\$158, Char Hfr 935 Lbs. \$94, Char Hfr 1035 Lbs. \$87, Red Hfr 1395 Lbs. \$123, Char Str 245 Lbs. \$173, Wf Str 390 Lbs. \$109, Blk Str 520 Lbs. \$138, Wf Str 610 Lbs. \$114, Red Str 703 Lbs. \$110, Bwf Str 925 Lbs. \$94, Red Str 1095 Lbs. \$84.00; Blk Str 1510 Lbs. \$95, Blk Bull 330 Lbs. \$135, Red Bull 480 Lbs. \$100, Blk Bull 580-605 Lbs. \$141-\$151, Roan Bull 805 Lbs. \$101, Blk Bull 965 Lbs. \$90; Cows \$50-\$71; Bulls \$95-\$112.  
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# United States has recovered most of its China business from trade war

The United States has seen the return of China as its leading commodity export destination. The U.S. has now recovered nearly all business that was lost from the trade war that started in 2018. For the year 2020 China accounted for 25% of all U.S. agricultural exports, equal to what it was prior to 2018. The question now is if Chinese demand will continue to build, and more importantly, if the U.S. will be able to provide much more in the way



MARKET ANALYSIS  
By Karl Setzer

of commodities than it does now. One benefit for U.S. exports has been the lack of competition from South America especially in recent months. Brazil exhausted its exportable surplus and Argentina has been slow to make sales given recent tax hikes. This is starting to change on both fronts and U.S. demand is slowing as a result. Even with delayed harvest and loadings, buyers are willing to wait for the cheaper offerings from these countries rather than extend U.S.

purchases. There are also thoughts the delays to the Brazil harvest will string out its export window and leave little additional business for the U.S. prior to the next harvest.

When it comes to loadings the most interest is currently on China. This will now shift from soybeans to corn as Brazil becomes the leading source for that commodity. China has several million bushels of corn booked from the United States they need to take delivery of. There have been concerns China may wash out of these, and while possible, given China's overall need for corn is diminishing the likelihood of major cancellations. Doubts over the size of South America's corn crop is further reducing the possibility of cancellations.

Trade continues to look at our current export sales commitments and what is needed for the remainder of the marketing year. Given the recent pace of sales, we only need to sell 11 million bu (mbu) of corn and 1 mbu of soybeans per week for the remainder of the marketing year. While sales this low are possible, it is highly unlikely we will not see demand outpace these levels. As a result, not many analysts believe the current sales estimates set by the USDA.

One issue that needs to be closely monitored in Brazil is the ongoing spread of Covid-19. While cases have been slowing in other countries, Brazil has seen its numbers rise. There are now concerns this could cause logistic issues and possible delays to exports if conditions get worse and labor strikes take place. The concern is what this may mean to an already struggling export program for the country.

Most of the drought talk in Argentina is what the impact has been on crop production, but the country may face other issues as well. The main one would be on river logistics. Last year when Argentina turned dry; restrictions were placed on barge drafts in Argentina which limited the amount of grain that could make to export terminals. There is a legitimate chance of this taking place again this year. As a result, exporters are pushing to move as much inventory now ahead of any disruptions, including paying a premium for immediate deliveries.

We continue to see a shift in global feed grain demand that is being closely monitored. For the past several months we have seen an elevated use of wheat in feed rations as both availability and price has been more favorable than corn. We are now seeing

some countries shift to barley feeding in place of corn and wheat, including China. There are even thoughts this could lead to elevated barley planting in the global market, displacing other acres.

There are more signs of an improving economy that are supporting commodity values. This is not just in the United States, but around the world. The global economy has rebounded 5.6% this year and is expected to show another 4% of growth next year. As a result, more consumer spending is expected. The concern with this is that we also see inflation and the growth is restricted.

One sign of the improvement is an increase in energy products demand. Gasoline demand in the United States last week was the highest of the past year as more travel restrictions from Covid-19 are lifted. There are now thoughts that by summer we will see gasoline demand approach 2019 levels as more easing takes place. In turn this is elevating ethanol demand as well. If gasoline demand rebounds as much as estimated, it could add as much as 200 mbu of corn demand to the current projection.

The recent warm up in temperatures across the U.S. is being welcomed by the export industry. This is from the fact that ice is rapidly melting on many U.S. rivers, including the Mississippi. As a result, we will soon start to see elevated deliveries to the gulf for loading. The most attention is currently on corn as the U.S. has a tremendous volume sold and shipments need to build if it is all going to be moved in the current marketing year.

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## Ag Barometer: Farmers see bright future

By Stan Maddux  
Indiana Correspondent

WEST LAFAYETTE, Ind. - The sharp rebound in grain prices and forecast of continued tight supplies have farmers nationwide basking in brighter rays of hope.

The most recent Purdue University/CME Group Ag Barometer rose to its highest level since October.

The Ag Barometer reading measuring optimism among farmers rose 12 points from the previous month to 177 points.

According to Purdue, the Ag Economy Barometer is calculated monthly from the responses of 400 agricultural producers across the United States in a telephone survey.

The Index of Future Expectations obtained from the survey also snapped a four-month decline by rising 16 points to a reading of 164 in March. In addition, the Index of Current Conditions compiled from the same findings tied its previous all-

time high with a two point increase to a reading of 202.

Carryover supplies of corn and soybeans are projected to remain tight even if crop production rebounds from the previous year.

"That seems to be providing producers' confidence that crop prices will remain strong this year," Purdue officials said.

Matt Schafer, a corn and soybean producer from LaCrosse, said the findings seem accurate judging by the situation on his farm in the northwest part of the state and feedback he hears from other producers in his area.

"We're in a considerably better situation than we were a year ago," he said.

The livestock industry is also feeling more hopeful because of expected smaller pork supplies and rebound in the U.S. economy that seems to be on the horizon for the summer, according to the report.

(Supply continued on page 8)

# Supply

FROM PAGE 7

The survey also shows producers are also much more optimistic about making farm machinery purchases than when the pandemic started a year ago.

The Farm Capital Investment Index came in with a reading of 88 or just five points below its all-time high and 63 percent higher than early in the pandemic when confidence among farmers in making costly equipment purchases plummeted.

Schafer said farmers have a little more money in their pockets to consider investing in their operations. "There's been interest in people looking to buy new or at least new to them machinery. That's usually a decent barometer of optimism," he said.

The survey also found optimism continues to grow about the outlook farmers have about the financial health of their operations. The Farm Financial Performance Index has gone from an all-time low score of 55 to a record high of 125 since April 2020.

The positive findings were obtained despite more farmers believing the ongoing trade negotiations with China will not be resolved in a positive manner for U.S. agriculture.

Just 31 percent of producers feel U.S. agriculture will benefit when the dust settles on the trade talks compared to 81 percent early last year. According to report, the less optimistic view about the dealings with China is from growing doubt that China will live up to its promises contained in Phase One of the trade agreement reached with the United States last year.

Michael Langemeier, a Purdue agricultural economist, said there's no way of telling how the readings compare to the last boom in agriculture from 2007 to 2013 because the barometer wasn't created until 2015.

However, Langemeier said times are good judging by current farm income levels and other statistics outside the barometer.

"This is some of the best years we've had in the last 20," he said.

The recent huge increase in exports, especially for corn and pork from China, is making a noticeable difference in the attitudes of farmers. Langemeier said the optimism would still be decent even if China stopped ordering such large volumes of U.S. farm commodities.

He said demand from other countries has increased since their economies have improved since the pandemic began easing up.

Langemeier said farmers are more cautious about their outlook long term, mainly from uncertainty over whether China will remain a major customer.

"We don't know if this is a one or two year blip. That's the real wild card when you look at the next five-years," he said.

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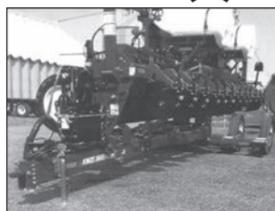
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# Small and medium-sized farms get boost from USDA grants

By Jordan Strickler  
Kentucky Correspondent

WEST LAFAYETTE, Ind. — The USDA is awarding 24 grants to 20 universities focusing on the importance of small and medium-sized farms. The goal of the grants is to help ensure America's small and medium-sized farms become more profitable and improve the quality of life in America's farm communities.

"Few groups are as resilient and as determined as American farm families," said Agriculture Secretary Tom Vilsack in a news release. "This investment in innovative research will give these family farms the tools they need to be more sustainable, profitable and productive as they face agricultural and economic challenges. When American farmers have a chance to compete, they have a greater chance at succeeding."

Issued through the National Institute of Food and Agriculture, the goal is to focus efforts on alternative crop enterprises, marketing and scaling up fruit and vegetable production to overcome marketing constraints. By focusing on these key elements, small and medium-sized farm operators can increase their competitiveness in local markets and can provide greater access to food for their communities.

One program, "Taking the Next Step as a Small and Medium Sized Farm: Understanding the Integration of Production, Food Safety, and Profitability," is a project being undertaken by Purdue University to which they were awarded almost \$500,000.

"We're trying to help farmers in their decision-making process for looking at soil health, food safety and profitability

and the integration of those systems for those decision-making processes," says Maria Marshall, North Central Regional Center for Rural Development. "Farmers need to be thinking about their market, what consumers demand is and what they're looking for. They have to be thinking about this, not only in terms of the products they grow, but about customers' concerns for how those products are grown. Producers have to be thinking about the whole system."

The Purdue program will be using a combination of field days, workshops, webinars and a new website to teach producers ways improve their operations.

"I think that there are there are just certain things that smaller and medium-sized farmers are contending with. I think a lot of farms of those sizes are just being underserved," said Marshall.

According to the USDA, 90 percent of farms are considered small farms (that making less than \$350,000 per year). Large-scale farms (those making more than \$1 million per year) represent only 2.5 percent of farms, but account for more than half of the nation's produce.

After peaking at 6.8 million farms in 1935, the number of U.S. farms fell sharply until the early 1970s. Rapidly falling farm numbers during the earlier period reflected growing productivity in agriculture and increased nonfarm employment opportunities. Since then, the number of U.S. farms has continued to decline, though at a slower rate. In a 2019 USDA survey, there were 2.02 million U.S. farms in that year, down from 2.20 million in 2007. With 897 million acres of land in farms in 2019, the average farm size was 444 acres, only slightly greater than the 440 acres recorded in the early 1970s.

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# Ohio State names 14 to ACEL list of Distinguished Seniors 2021

COLUMBUS, Ohio — The Department of Agricultural Communication, Education, and Leadership (ACEL) at Ohio State University has named 14 students to the third class of ACEL Distinguished Seniors in 2021. These students were selected by the faculty and staff of the Department for their excellence both in and out of the classroom.

2021 ACEL Distinguished Seniors include:

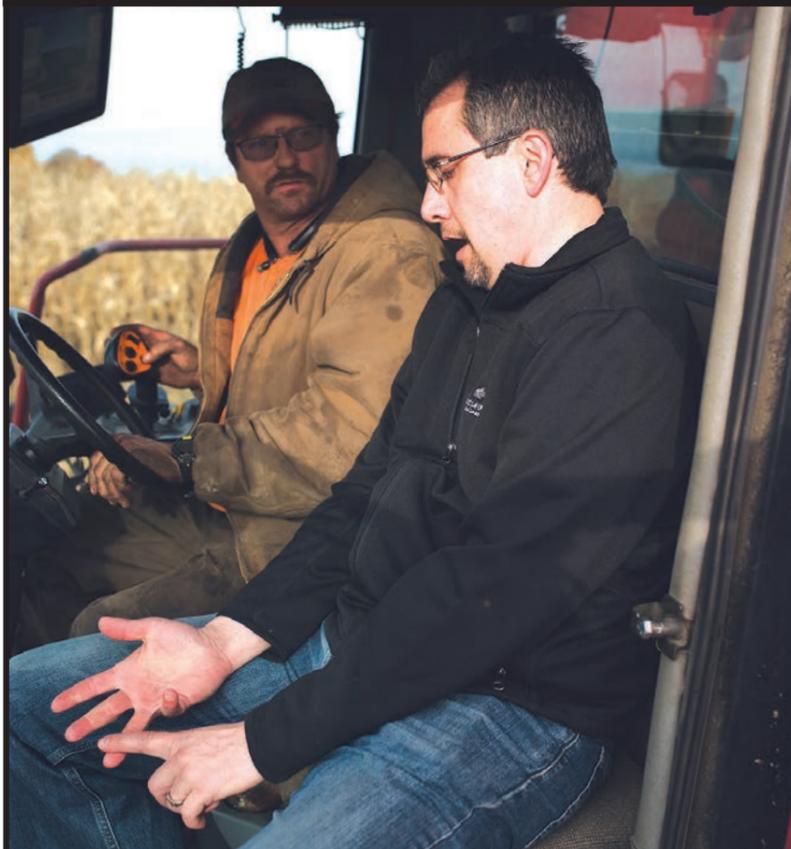
- Kolt Buchenroth, agricultural communication of Kenton
- Sean Fitzsimmons, agriscience education of Wooster
- Melanie Fuhrmann, community leadership of Wheelersburg
- Solomon Garner, community leadership of Columbus
- Courtney Heiser, agricultural communication of Attica
- Allyson Irwin, community leadership of Jackson
- Shea Leeper, agricultural communication of Marysville
- Brenna Loxley, agriscience education of Greenville
- Allyson McCurdy, community leadership of Marion
- Oliva Pflaumer, agriscience education of Chillicothe
- Milan Pozderac, agriscience education of Fredericksburg
- Paige Schaffter, agriscience education, of Bryan
- Deja Reid, community leadership of Columbus
- Kayla Ritter, community leadership of Brookville

"ACEL has outstanding students and we are excited to recognize these 14 seniors for their exceptional efforts in and outside of the classrooms," said Dr. Shannon Washburn, professor and chair of ACEL. "We know they will succeed in their chosen career paths because of the dedication they have shown to their academics and community involvement."

The ACEL Distinguished Seniors will be recognized at the Department's virtual recognition program in April.

ACEL prepares communicators, educators and leaders in the food, agricultural, and environmental sciences to integrate research-based learning, practice and engagement, in ways that will advance positive changes that strengthen individuals, families and communities. For more information on the academic programs and research available in ACEL, or to donate to student scholarships, please visit [acel.osu.edu](http://acel.osu.edu).

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2014 Freightliner Cascadia, Detroit DD15 455 HP, UltraShift Automatic, Air Ride Susp., Jake, Cruise, A/C, AM/FM, PDL, A/S 5th Wheel, Power Windows, Locks & Mirrors, 40K RA, 12K FA, 178" WB, 3.55 RR, (10) Alum. Whls. On LP 22.5's, 563,637 Miles, W-2594 . . . \$33,950

2013 Freightliner Cascadia, Detroit DD13 410 HP, Fuller 10 Speed, Air Ride Suspension, Jake, Cruise, A/C, AM/FM, PDL, Power Windows, Locks And Mirrors, 20K RA, 12K FA, 165" WB, 3.58 RR, (4) Alum./2 Steel Whls On LP 22.5's, 477,818 Miles, W-2577 . . . . CALL

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# Soy-based biostimulant wins Student Soybean Innovation Competition

INDIANAPOLIS - A liquid biostimulant, designed to promote growth in crops grown in vertical farms, earned the top honors during the 27th annual Student Soybean Innovation Competition on March 24. Two Purdue University sophomores, Cai Chen of Elmont, N.Y., Nate Nauman of West Lafayette, Ind., and graduate student Emmanuel Alagbe of Ibadan, Nigeria, will share the competition's \$20,000 top prize.

The Student Soybean Innovation Competition is sponsored by the Indiana Soybean Alliance (ISA) and Purdue. The awards ceremony was conducted as a virtual event for the second consecutive year due to restrictions for public gatherings as a result of the COVID-19 pandemic. To win this competition, Purdue students must develop novel applications for soybeans that satisfy a market need. This is among the most popular events each year for Indiana's soybean checkoff.

"The goal of this contest is to highlight the versatility of soybeans while addressing a need in agriculture or the general public," said Angie Steinbarger, who is a farmer from Edinburg, Ind., and one of the judges for this year's contest. "ISA is very happy to work with Purdue students in the contest as we look to expand markets for soybeans grown in Indiana. This biostimulant is mostly made of a soybean protein, and it has been developed to help grow crops. This seems like a slam dunk for what we want from this competition."

Biostimulants help crops germinate rapidly, achieve greater plant mass and yield, and improve nutrient uptake. However, they do not act as fertilizers or pesticides, because they do not add new nutrients like Nitrogen or repel pests. The winning product is 98 percent soy "So when our product is applied to plants, it has the capacity to improve the growth rate and also ease stress," Alagbe explained.

The winning Purdue students said this biostimulant is unique when compared to products already on the market, because soy protein peptides have antimicrobial and antibacterial properties. These properties are significant, because many crops, especially lettuce, are sometimes recalled due to foodborne illnesses such as listeria. Soy protein hydrolysate biostimulants decrease the chances for pathogens to contaminate food. Additionally, this product is entirely composed of organic substances, which may be attractive for customers.

"One of the major successes we saw with our product is how great it worked with lettuce we've grown in the greenhouse," said Chen, who added that when biostimulant was added to lettuce, it was 30 percent larger than standard lettuce.

The biostimulant market, which is mostly in Europe currently, is a \$2.4 billion industry with abundant space to grow, especially in North America. This market is projected to be worth \$5.69 billion in 2026, according to industry analysts. For now, though, these three students are making plans for spending the \$20,000 in prize money.

"We now have enough money to buy our competitors' products and test them against our own," Nauman said smiling.

This year, seven teams composed of 22 Purdue University students and 14 faculty advisors, finished the competition. The participating students represent a variety of majors including food science, engineering, animal science

and finance. In addition, each team works with two faculty advisors who provide technical and market research support.

The contest introduces Purdue students to the multi-faceted uses and vast potential of soybeans while drawing on students' creativity to develop products that utilize soy. Following the contest, ISA works to develop the products, evaluate their long-term feasibility and commercial viability.

"Indiana soybean checkoff funds are used to find new uses and new markets for our soybeans; thereby creating demand and helping our farms to be more profitable and sustainable," Steinbarger said. "This event allows us to create relationships with bright and innovative students and their mentors at Purdue. Some of the products that evolve out of this contest could potentially have a positive impact on our soybean prices."

Previous contest winners include last year's HerbiSoy, a non-toxic, soy-based herbicide, and the winner from 2019, Stroy, drinking straws made from soybean plastic. The ever-popular soybean crayons and soy candles are past winners as well.

Earning second place, and a \$10,000 prize, this year is Team Sage 2.0, which developed a soy-based, hypoallergenic athletic tape called Arachnitape. This team consists of four Purdue juniors: Andres Dextre, of Lima, Peru, Erick Forkpah, of Greensboro, N.C., Sarah Heffner, of Indianapolis, and Jieun (Grace) Lee, of Daejeon, South Korea. Arachnitape is water resistant but still supportive, which should help athletes, Team Sage 2.0 said.

Finishing third, and earning a \$5,000 prize is Team Soykind, which created an eco-friendly and innovative replacement for cosmetic face masks. Team Soykind is made up of three Purdue seniors: Luke DeLong, of Sullivan, Ill., Vy (Vee) Le, of Sugar Land, Texas, and Shulin Wang, of Jining, China. Unlike most cosmetic face masks on the market today, Team Soykind's product is completely bio-degradable.

This contest also includes a People's Choice award of \$500, which is determined by online votes during a presentation of each product. Team Soyrenity, which created a transdermal patch for patients who suffer from bone density pain or to sooth symptoms related to menopause. Team Soyrentiy members include Purdue seniors Natasha Abraham, of New York, N.Y., John Mutter, of Grayslake, Ill., and graduate student Diana Ramirez-Gutierrez, of Bogota, Colombia.

Indiana soybean farmers' investment in finding new soybean innovations is not limited to the competition. The state soybean checkoff also funds the Soybean Utilization Endowed Chair at Purdue's College of Agriculture, Dr. Nathan Mosier, to lead research into new uses for soybeans. At present, ISA is working with companies in the concrete industry to market an innovative soy-based concrete durability enhancer developed through checkoff-funded research at Purdue University. This soy-based product, called Poeshield, is ideal for concrete roadway infrastructure where protecting the environment is a key requirement or consideration.

Go online to [www.indianasoybean.com/checkoff-investments/new-use-innovation](http://www.indianasoybean.com/checkoff-investments/new-use-innovation) for more details on ISA's investment in soybean innovation. To view the awards ceremony, go online to the ISA's YouTube page at [www.youtube.com/watch?v=in9YwFoFEu4](http://www.youtube.com/watch?v=in9YwFoFEu4).

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# Hops debut in Michigan Craft beverage report

By Kevin Walker  
Michigan Correspondent

LANSING, Mich. - The Michigan Craft Beverage Council has announced results of its 2020 Grape and Hop Inventory Results.

Highlights of the report include an increase in wine grape acreage and the fact that for the first time hops are included in this report.

"The report gives us a benchmark to measure the growth of the hop inventory from year to year," said Jenelle Jagmin, director of the Council, which operates within the Michigan Dept. of Agriculture and Rural Development (MDARD). "It includes figures for the vitis Vinifera and hybrid wine grapes, which are getting a lot of popularity in Michigan.

"Something I think is interesting to look at is the table that shows grapes grown by variety between 2017 and 2020," she added. "Riesling is number one, it's kind of the darling of the wine grapes. It has increased the most in the past three years." There were 670 acres used to grow Riesling wine grapes in 2020. Other popular varieties of Vinifera wine grapes in Michigan are Chardonnay, with 320 acres; Pinot Gris, with 270; and Pinot Noir, with 250. Also popular is Cabernet Franc, with 180 acres. There were 2,325 acres of Vinifera wine grapes grown in Michigan last year.

The most popular hybrid grapes in the state were Vidal blanc, with 105 acres; Chambourcin, with 100 acres; and Marquette, with 97 acres. There were 1,050 acres of hybrid grapes grown in Michigan in 2020.

According to Jagmin, these kind of grapes are more suitable for the inland areas of the state. There were 10,900 acres of grapes of all kinds grown in the state in 2020. There were 3,375 wine grape acres in Michigan maintained by 257 farms and 670 hop acres maintained by 68 farms. Although total grape acreage has decreased over the past few years, wine grape acreage has increased. There are more than 35 varieties of hops planted in Michigan, but Centennial, Cascade, Chinook and Cashmere have the most acreage per variety, accounting for 325 of the 670 acres.

"The incredible growth of Michigan's craft beverage industry has a lot to do with our talented, creative, and driven entrepreneurs, but it's also the result of producing unique, high-quality ingredients," said MDARD Director Gary McDowell in a press release. "Fresh water, rich soils, and diverse microclimates create an ideal environment for growing robust, sophisticated inputs for every variation of craft beverage."

Michigan grape and hop farmers were surveyed over several months to obtain acreage and variety data. The statistics are part of the Small Fruit & Hops Inventory conducted by the USDA's National Agricultural Statistics Service for the Michigan State Horticultural Society.

The wine and hop results are a subset of the complete report, due out later this spring. The report is funded by a federal Specialty Crop Block Grant. For more information about Michigan's craft beverage industry, visit michigancraftbeverage.com.

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# Indiana State Fairgrounds offers virtual learning; in-person programming may return in fall

By Michele F. Mihaljevich  
Indiana Correspondent

INDIANAPOLIS - Indiana State Fairgrounds officials hope to begin offering in-person educational opportunities to students again later this year, but in the meantime, virtual field trips are available to teach children about agriculture.

The in-person programs - Farm to Pizza; Plants, Animals & Me; Exploring Biotech - have been on hold due to the pandemic, said Stephanie DeCamp, director of education for the fairgrounds and event center. Officials hope the programs can resume in the late fall.

The virtual programs - There's a Pig in My Classroom; It's All About The Genes - will remain so because they were designed as virtual presentations, she noted. For example, the Pig in the Classroom program virtually takes viewers to the pig operation at Fair Oaks Farms. "We couldn't do that on a live basis," DeCamp explained. "The camera is so close they can see the hairs on the pig. We encourage viewers to watch on a big screen. The pigs are larger than life."

In March, the fairgrounds began offering free augmented reality programming for grades 8-10 in three areas: crops, dairy and hardwoods. Officials said students may download an app with their mobile device or school tablet and activate the experience, which operates by scanning a QR code. Each of the apps includes an animated video overview.

Whether a program is live or virtual, the goal remains the same, DeCamp said. "Ag literacy is our main focus. We feel part of the mission at the fairgrounds is to educate about where food comes from. We don't produce, we don't sell. We just tell the whole story of ag. We find ways to talk about what we're passionate about."

Once the in-person field trips were canceled, officials never considered turning them into virtual programs, she stated. "We're waiting to bring them

back in person. We don't want to flip everything virtual. Farm to Pizza is very hands on. The kids are making pizza, interacting with animals. We couldn't replicate that virtually to the level it is in person."

The virtual field trips are free. The in-person programs, once they return, are \$5 for students and free for teachers; additional adults are \$5 each. There's a Pig in My Classroom is for 3rd-6th graders and shows students how pigs are raised and how to buy pork in the grocery store. It will be offered April 20-22 and May 4-6. It's All About the Genes, for grades 7-9, looks at biotechnology. As of press time, all spring semester dates for this program have been filled.

Annually, about 50,000 students participate in the fairgrounds' Youth Ag Education programs, including events offered at the state fair, DeCamp said. About 10,000 students have signed up for virtual programming this semester.

Fairgrounds officials prefer to offer their virtual programming to a classroom setting but will take home schoolers as a group as long as one teacher registers and shares the link, she said.

"A large majority of the students are urban but we always have a lot of rural schools too," DeCamp said. "A lot of the students don't come from a farm background. They're so eager to learn. Kids get very curious about what ag is."

Educators do get questions about some of the common misconceptions surrounding farming, she added. "They ask if brown eggs are more nutritious than white and if chocolate milk comes from brown cows. The things we take for granted we need to educate about. For example, some may think farmers still go in and milk cows by hand. No, we tell them, there's technology for that."

For more information, including a schedule, visit [www.indianastatefair.com](http://www.indianastatefair.com) and click on the education tab. The website also offers several experiments and activities geared toward at-home learning.

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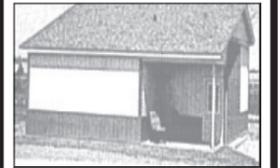
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They will send you a check that appears to be good, but overpays to the amount of what it costs to pick up equipment, and later wants a wire sent to them through Walmart because they now will pay the pick up company. Their check comes back bad after a few days, and the Walmart wire cannot be reversed. They have been reported to the Federal Trade Commission (FTC) and the Federal Bureau of Investigation (FBI). ALERT!

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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1994 GMC topkick, 260,000 mi., CAT 3116, air brakes, 16' Obeco bed, hoist, tarp, sharp cond., \$21,000. 513-375-5030. Oxford, OH.

2016 F350 XLTS 4X4, full size, reg. cab, gas, ext. warranty 07/23, white, 30,000 miles, towing, goose, snow, \$27,000. 317-531-7973. Morgantown, IN.

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**2001 JD** 5510 tractor, 85HP dsl., 9 forward speed, 3 reverse, 2WD, 5300 hrs., 2 sets of hyd. remotes, 3 front weights. 419-305-3938 Rockford, OH.

**2004 JD** 7820 w/4000 hrs., 42" rear tires, Michelin & duals, mint cond., \$90,000. 419-733-0921 Fort Recovery, OH.

**2011 NH** T7050, FWD, Easy Steer, duals, weights, super steer, front fenders, deluxe cab, 194 HP, new cond., 720 hrs., \$105,000. 937-417-9091 Rossburg, OH.

**2013 JD** Z930M, 60" deck, 395 hrs. \$6,250. 317-691-1642. New Castle, IN.

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**JD 980** field cult., 41'6", always kept inside, has JD knock on sweeps. Purchased a bigger unit, no longer needed, \$10,900. 765-419-0380 Kokomo, IN.

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**1998 Kinze 2600 16R30**, Precision planting, 2020 Gen 3 monitor, delta force, V-drive, V-set, smart firmers, dosatron, liq. fert., drag chains, no-till blades, row cleaners, PTO pump avail., \$38,000 OBO. 812-620-3910. Fredericksburg, IN.

**2004 Kinze 3600 16-32R**, mechanical drive, asking \$42,000. 812-216-6218 Greensburg, IN.

**2012 Kinze 8x16 3500 KMP11**, monitor, box extensions, seed firmers, no-till, work lights, new cond., \$50,000. 937-417-9091 Rossburg, OH

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**JD 7200 12R**, FF, liq., vac., E-sets, 2020 monitor. 574-361-9847 Goshen, IN.

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**JD 750** no-till drill, 1990, 15', slide bar, 7 1/2" spacing, SI belt meters, dolly wheels, gd. paint, greased & field ready, \$11,500. 937-725-7351 Sabina, OH.

**JD 750** no-till grain drill, field ready. 937-587-2737 Peebles, OH.

**Kinze 2500 8-15**, PP V-drive, clean sweep, in furrow fert., Delta Force on corn rows, Gen. 2 20/20, clean planter, \$36,750. 502-220-6557 Shelbyville, KY.

**Kinze 3600 16R30**, liquid fert., 2x2 360 openers, pop up fert., diaphragm pump, furrow cruiser closing wheels, Tru Count air clutches, \$40,000. 937-538-6767 Minster, OH.

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**NH 5060** sq. baler, one owner, like new cond., around 5000 bales, has hyd. tensioner & swing positioner, moisture monitor, preservative applicator, \$16,500. 765-346-0310 Martinsville, IN.

**NH 688** baler, net & twined, \$1000; BR 780 baler, net only, \$1000; Int. 986 tractor & loader, \$8250. 812-236-0454. Clay City, IN.

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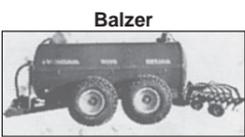
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REM VRX Vac. . . . .	\$ 27,900	10'x63' swing-away. . . . .	\$ 11,850
Rhino TS12 12" flex wing cutter. . . . .	\$ 11,100	10'x63' swing-away galvanized auger. . . . .	\$ 13,400
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812-18 w/new 900's. . . . .	\$ 36,500	Westfield 13" hydraulic powerswing kit. . . . .	\$ 800
875-18 w/new 30.5x32. . . . .	\$ 35,900	'10 Westfield 10'x71' LP hopper. . . . .	\$ 5,500
1000-20 w/new 900's. . . . .	\$ 43,300	'16 Westfield 10'x73' swing-away. . . . .	\$ 9,000
1000-20 w/new 1050's. . . . .	\$ 49,300	<b>USED TILLAGE</b>	
1112-20 w/new 1250's. . . . .	\$ 54,900	Krause 18' Landsman w/S-tin 9" spacing, 3 bar tine. . . . .	\$ 9,500
1112-20T 36"x106". . . . .	\$ 78,500	'14 Krause 8000-30 w/Valmar 2455 seeder. . . . .	\$ 48,000
1312-20 w/new 1250/50R32. . . . .	\$ 62,400	'15 Krause 4830-900F no-till shanks. . . . .	\$ 32,000
1312-20T 36"x139". . . . .	\$ 95,200	'11 Krause 4850-15 15 combo shank Dominator. . . . .	\$ 30,000
1326-22D w/520/85R42. . . . .	\$ 66,200	'11 Krause 4850-18 11 shank. . . . .	\$ 35,000
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10'x36' PTO drive. . . . .	\$ 5,600	'14 J&M 875-18 w/1000/50x25 floaters. . . . .	\$ 24,000
10'x36' EMD (less motor). . . . .	\$ 5,400	'14 J&M 1311-22 tarp, 76x50x32 tires. . . . .	\$ 45,000
10'x41' EMD drive (less motor). . . . .	\$ 5,650	'06 J&M 1325-22 w/tarp, J&M tracks. . . . .	\$ 45,000
10'x41' PTO drive. . . . .	\$ 6,200	'08 J&M 620-14 w/tarp and 30.5's. . . . .	\$ 17,000
13'x31' PTO drive. . . . .	\$ 8,200	'08 J&M 1000-20 w/88x50x32 tires. . . . .	\$ 24,000
13'x36' PTO drive. . . . .	\$ 8,300	'09 J&M 1112-20 w/tarp, 1250's. . . . .	\$ 52,000
13'x36' electric motor drive (less motor). . . . .	\$ 8,100	'08 J&M 1150-20 w/tarp, 1050's. . . . .	\$ 32,000
13'x41' electric motor drive (less motor). . . . .	\$ 8,600	'09 J&M 1151-22 w/tarp, 76x50x32's. . . . .	\$ 35,500
13'x41' PTO drive. . . . .	\$ 8,900	'12 J&M 1000-20 w/tarp & 900/60R32 tires. . . . .	\$ 34,000
MXK 10'x63' swing-away. . . . .	\$ 10,900	'14 J&M 875-18 w/1000/50R25 floater tires. . . . .	\$ 25,000
MXK 10'x73' swing-away. . . . .	\$ 12,300	'17 J&M 875-18 w/tarp, scales, 30.5x32 tires. . . . .	\$ 34,500
MXK 10'x83' swing-away. . . . .	\$ 13,900	'18 J&M 1522-20 w/tarp, scales, stabilizer tracks. . . . .	\$ 89,000
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1993 JD 7600, 5707 Hrs., 16 Spd. PQ w/LH Rev., 2 Rem., **\$46,800**



2004 JD 7420, 2809 Hrs., 16 Spd. PQ w/LH Rev., 2 Rem., **\$73,800**



2006 JD 7420, 430 Actual Hrs., 16 Spd. PQ w/LH Rev., 3 Rem., JD 741 SL Ldr., **\$109,500**



2011 JD 7230, 2562 Hrs., 16 Spd., Syncro Trans. w/LH Rev., **\$62,800**



2007 JD 7130, 16 Spd. PQ w/LH Rev., 2 Rem., Joystick Cont., **\$72,500**



2002 JD 6320, 667 Hrs., 16 Spd.. PQ w/LH Rev., 1 Owner, JD 640 Ldr., **\$78,500**



1999 JD 6310, 716 Hrs., 16 Spd. PQ w/LH Rev., 2 Rem., Joystick Cont., **\$46,000**



2016 JD 6130M, 999 Hrs., 24 Spd. PQ w/LH Rev., 3 Rem., Joystick Cont., JD 640R SL Ldr., **\$92,800**



2002 JD 6120, 2952 Hrs., 16 Spd. PQ w/LH Rev., 3 Rem., **\$39,500**



2013 JD 6115M, 519 Hrs., 24 Spd. PQ w/LH Rev., 3 Rem., R&P Axle, **\$72,500**



2002 JD 5520, 1161 Hrs., 12x12 Trans w/LH Power Rev., 3 Rem., Joystick Cont., **\$38,500**



2008 JD 5425, 624 Hrs., 9x3 Sync Shuttle Trans., 2 Rem., **\$34,500**



2011 JD 5101E, 1581 Hrs., 12x12 Trans. w/LH Rev., JD 563 NSL Ldr., 2 Rem., **\$46,800**



2009 McCormick MTX 120, 1328 Hrs., 16 Spd. PS w/LH Rev., 3 Rem., McCormick L165 SL Ldr., **\$64,800**



2011 MF 7475, 2616 Hrs., Dyna VT Trans., 2 Rem., R&P Axle w/Cast Centers, **\$82,500**



2015 MF 5613, 999 Hrs., w/MF 946 Ldr., **COMING IN**



1985 MF 3545, 1254 Hrs., 16 Spd., 2 Rem., Quick Attach, **\$28,500**



2000 MF 4253, 3478 Hrs., 12x4 Trans., 2 Rem., **\$24,800**



2013 Challenger MT655D, 2573 Hrs., CVT Trans., 5 Rem., 3 Pt. Hyd. w/PTO, **\$115,000**



2004 Buhler Versatile 2145, 4237 Hrs., 18x9 PS Trans., Super Steer, 3 Elec. Rem., R&P Axle, **\$62,500**



2009 Agco RT 110A, 1942 Hrs., 24x24 Dyna w/LH Rev., 1 Owner, 4 Rem., **\$58,500**



1998 Agco 8765, 1338 hrs., 12x4 Trans., 3 Rem., Joystick Cont., Quickie X41 Ldr., **\$32,500**



2008 NH T6050, 1163 Hrs, PS w/LH Rev., **\$59,500**



2008 NH T6030 Plus, 2025 Hrs., 16 Spd. PS w/LH Rev., 3 Rem., R&P Axle, **\$56,500**



2009 JD 850J, 1336 Hrs., 1 Owner, Completely Serviced, **\$159,000**



2009 JD 544K, 2723 Hrs., 1 Owner, Quick Coupler, **\$94,800**



2015 Wacker Neuson 8085T, 2850 Hrs., 4x4 All Wheel Steer, 2 Spd. Trans., Joystick Cont., 72" Hyd. QA Bkt., **\$54,500**



2017 JD 330G, 417 Hrs., 91HP, Joystick Cont., Backup Camera, **\$44,800**



2013 NH LM6.28, 1360 Hrs., 2 Spd., 4X4, All Wheel Steer, 20.8" Boom, **\$56,500**



2017 Gradall D152, 17,603 Mi., 2268 Hrs., 2017 Freightliner M2 4x2 Chassis, Auto, 36" Bkt., **\$129,500**



2018 Kobelco SK350LC-10, 2995 Hrs., 2 Spd., Aux. Hyd, Strickland QA, 52" Bkt., 1 Owner, **\$159,500**



2019 Hyundai HX160L, 554 Hrs., 2 Spd., 128HP, Pilot Control, 36" Bkt., **\$112,500**



2012 Komatsu PC290LC, 4232 Hrs., 32" Pads, 44" Bkt., Manual Thumb, **\$98,500**



2016 Wacker Neuson EZ53 VDS, 443 Hrs., 2 Spd. Trans., Pilot Cont., Aux Hyd, 24" QA Bkt., **\$46,500**



2013 Bandit 3000T, 305 Hrs., 2 Spd. Hydro. Trans., 18" Tracks, **\$136,500**



2017 JD 770G, 1753 Hrs., 14' Blade, Warranty Remaining, **\$169,500**



2012 Volvo G940B, 2282 Hrs., 1883 Grader Hrs., 14' Blade, **\$98,500**



1985 CAT 621B Scraper, 428 Act. Hrs., **\$79,500**



2004 JD 1510C, **\$44,500**  
Rowse 300 Scraper, **\$4,800**



2015 Landoll 855PS, 55 Ton, 102"x53", Hyd. Det. Neck, 12" Swing-Out Outriggers, **\$78,000**



1998 Claas Quadrant 1200, Lg. Sq. Baler, 2.25x4x8 Bales, Works Well, **\$17,500**



2015 Challenger MT 465D, 1117 Hrs., 16 Spd. DynaShift w/LH Rev., 2 Rem., Diamond Boom Mower 20' Deck, **\$82,500**



2009 JD 5065M, 2552 Hrs., 12x4 Syncro Shuttle Trans, Alamo SA Flair Mower, **CALL**



Rhino DB150, 3 Pt. Hitch, Side Ditch Bank Mower, Hyd. Driven 540PTO, **Call**

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## Minford FFA to use Bicentennial Barn as learning lab

By Doug Graves  
Ohio Correspondent

MINFORD, Ohio – Having a need for expansion, Minford Local School District in Ohio purchased a farm that abuts the property of Minford High School. On that farm property is an Ohio Bicentennial Barn. That purchase was music to the ears of Minford High agriculture instructor Kristin Stringer.

“We’ve been given the opportunity to use the farm as a learning laboratory farm for our program,” Stringer said with excitement. “While we’re so excited for this opportunity, I’m sure those who have driven by this farm realize we have our work cut out for us.”

After the purchase of the property earlier this year, the Minford School Board approached Stringer to see if she and her FFA chapter would be interested in using the farm and the barn as well, though the Bicentennial Barn is in need of much repair. Stringer has plans of renovating the barn and using it as a laboratory.

“Because the barn is right there in the center of town, I don’t feel anyone would want to see the barn torn down,” she said.

The school district has plans for other parts of the property, but is willing to allow room for Stringer and her FFA chapter to engage in agricultural projects.

“The farm part of it, we plan to have

chickens and hopefully ducks, because normally when we hatch eggs in the classroom, I get those from local people around town,” Stringer said. “If we raise our own chickens from the eggs we hatch, we will always have our own supply and can sell the eggs as a fundraiser.”

As of now, there isn’t a lot this FFA chapter can do animal-wise, but the group plans to start a garden and harvest produce. Stringer also has plans for a pumpkin patch for things they would be able to use in the fall when they come back to school, allowing students to see the end product and be able to sell those as a fundraiser to help fund the renovations.

“We won’t be confined to the classroom as much and we can do more hands-on than we do in-class small scale,” she said. “I wanted to get it as soon as possible so that would get started because a lot of the time, when people announce a project, it takes so many years for anybody to see anything come out of it. We can at least start growing vegetables this year and it’s like, OK, they are getting a little head start and able to use it the first year.”

The Minford FFA teaches primarily classes in plants and animals because that’s what people around the area are geared toward. Also taught are classes in soils. Plans are to have similar classes at the junior high school as well next fall.

“The students have had the class-



Above: Along with the purchase of property adjacent to Minford High School, came this Bicentennial Barn. FFA members at Minford High plan on restoring the barn and using it as a classroom laboratory. (photo submitted)

room aspect of agriculture but with the purchase of the farm the students will be able to have Supervised Agricultural Experiences, or SAEs,” Stringer said. “With the SAE our students can take a project and keep a record book of their work. With the addition of this farm the students can do gardening, landscaping, flower beds and things like that.”

Stringer envisions having beehives

on the property and possibly small livestock like sheep or goats. Such opportunities would allow for SAEs and provide work outside the classroom.

To help get her project up and running, Stringer and her classes are building a National FFA Organization Booster Club for any community members wanting to support the project.

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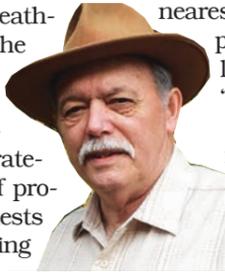
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# Don't give up on feeding birds just because the weather is warmer

With the arrival of warm weather, many bird lovers make the mistake of no longer stocking their bird feeders. At this time of year before there is a proliferation of insects, birds desperately need a continuing source of protein to form eggs, and build nests in preparation for the nesting season. The boost of a meal of sunflower or mixed seeds is extremely important; so keep feeding our feathered friends.



**SPAULDING OUTDOORS**  
By Jack Spaulding

With the burst of spring warmth, bird feeder suet cakes can be really nasty to handle. Warm months mean the beef tallow becomes sticky, and trying to refill the feeders can be an absolute mess. For a quick fix, put the suet cakes in the freezer. Frozen suet cakes have no mess, and are clean to handle.

I've done it for years. Don't worry about feeding the "cold cakes" as they will quickly warm in the wire holders, and the birds will flock to them.

## Fire at Owen-Putnam State Forest

Indiana Conservation Officers are investigating a fire on the afternoon of April 5 at the Owen-Putnam State Forest. Responding agencies had the fire completely contained by early evening.

At approximately 2 p.m., a Putnam County resident called 911 and reported a large amount of smoke behind his residence near County Road 1050 South and State Road 243.

The Cloverdale Township Fire Department and conservation officers in the area responded and located the fire, which was more than 100 yards in length and spreading. By early evening crews from multiple counties worked together to completely contain the fire. The fire is estimated to have consumed 10 to 15 acres.

Additional responding agencies included fire departments from Greencastle, Reelsville, Cataract, Poland, Jefferson Township and Putnamville Correctional Facility, as well as Hoosier National Forest Brownstown Ranger District - Engine 622, Owen-Putnam State Forest personnel, INDOT and the Putnam County Operation Life, CERT Team, and Sheriff Department.

## State park pools to open - lifeguards needed

Most public swimming pools located in Indiana State Parks properties will open Memorial Day weekend if the required number of lifeguards can be recruited and certified for each respective park property. Concession services will also be open at the pools. The openings follow last year's pool closures due to COVID-19.

Lifeguards are being recruited for pools at Brown County, Clifty Falls, McCormick's Creek, Shakamak, Spring Mill, Turkey Run, and Versailles state parks, at Cagles Mill Lake (Lieber State Recreation Area), and for the aquatic centers at Prophetstown and O'Bannon Woods state parks. Lifeguards are also being recruited for the state park beach at Indiana Dunes. As their lifeguards return to school, the pools and swimming at Indiana Dunes State Park's beach will likely close in August or only operate on weekends during the month.

The DNR welcomes back lifeguards who worked before last year's closures and seeks to train new lifeguards. Lifeguard training includes virtual coursework followed by a water skills assessment test.

"Lifeguarding is a great way to spend a summer and find out what working at an Indiana State Park is like," said Brandt Baughman, deputy director for operations for State Parks, who began his career as a lifeguard at Spring Mill State Park.

Lifeguard positions are open to applicants age 16 and older. For more information, contact the state park property

nearest you listed above. State Parks property phone numbers are listed at [stateparks.IN.gov](http://stateparks.IN.gov) under "Find a park."

The pools at Mounds and Harmonie state parks will not open this year. DNR is evaluating whether reopening the existing aquatic facility at each is the best option at the respective state parks or if another type of water feature for guests and the respective communities would be more efficient and appropriate.

Beaches will open for swimming on Memorial Day weekend at Chain O'Lakes, Indiana Dunes, Lincoln, Ouabache, Pokagon, Potato Creek, Summit Lake and Whitewater Memorial state parks, at Starve Hollow and Deam Lake SRAs, at Brookville, Cagles Mill (Lieber SRA), Cecil M. Harden (Raccoon SRA), Hardy, Mississinewa, Monroe, Patoka and Salamonie lakes, and at Ferdinand State Forest.

The aquatic center at Abe Martin Lodge at Brown County State Park and the pools at Clifty Inn (Clifty Falls State

Park), Potawatomi Inn (Pokagon State Park), Spring Mill Inn (Spring Mill State Park) and Turkey Run Inn (Turkey Run State Park) will continue to remain open for guests at each inn while in compliance with any COVID-19 restrictions.

## Anglers surveyed at Cagles Mill Lake

The DNR is conducting an angler creel survey at Cagles Mill Lake (also known as Cataract Lake) through Oct. 31. The last creel survey at the lake was done more than 15 years ago. The DNR needs more current information to help manage the lake's fishery. Information gathered will measure fish catch and harvest, evaluate stocking programs and survey angler preferences and opinions on fisheries management at the lake.

Boat and shoreline anglers will be included in the survey. A DNR employee will be stationed at access points around the lake on a rotational basis to conduct brief interviews as anglers end their fishing trips.

Angler participation is vital to ensuring the success of the study. DNR encourages anglers to help the effort by



participating whenever the opportunity arises.

Cagles Mill Lake is a 1,400-acre federal flood-control reservoir located in Owen and Putnam counties. The lake, at which recreation is managed by the DNR, is bordered by several DNR properties, including Lieber State Recreation Area, Owen-Putnam State Forest, and Cataract Falls State Recreation Area.

Readers can contact the author by writing to this publication, or e-mail to [jackspaulding@hughes.net](mailto:jackspaulding@hughes.net). Spaulding's books, "The Best of Spaulding Outdoors," and his latest, "The Coon Hunter And The Kid," are available from Amazon.com.

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# More cows mean more milk is on the way for 2021

More milk is on its way. The Agriculture Department raised its estimate on 2021 milk production in the latest World Agricultural Supply and Demand Estimates report issued April 9, based "primarily on increased cow numbers."

2021 production and marketings were estimated at 227.7 and 226.7 billion pounds respectively, up 400 million pounds on both. If realized, 2021 production would be up 4.5 billion pounds or 2.0% from 2020.

The 2021 fat basis import forecast was reduced while fat basis exports were raised on higher expected shipments of cheese. The skim-solids basis import forecast was reduced on lower imports of milk proteins and several other dairy products while the export forecast was raised on strong gains in shipments of skim milk powders and whey. Lactose shipments remain relatively weak.

Dairy product price forecasts were raised on improving demand, both domestically and in international markets. Prices of cheese, butter, nonfat dry milk, and whey were raised, boosting both Class III and Class IV prices.

Look for a 2021 Class III milk price average of about \$17.10 per hundredweight, up 35 cents from last month's estimate, and compares to the 2020 average of \$18.16 and \$16.95 in 2019.

The 2021 Class IV milk price is now estimated to average \$15.15, up 70 cents from a month ago, and compares to \$13.49 in 2020 and \$16.30 in 2019.

In the week ending March 27, 65,900 dairy cows were sent to slaughter, up 3,600 from the previous week but 1,600 or 2.4% less than that week a year ago.

The April 6 Global Dairy Trade auction reversed gears again. The weighted average inched back up 0.3%, after dropping 3.8% on March 16. Traders brought 55.3 million pounds of product to market, down from 59.2 million in the last event, and the average winning price was \$4,081, down from \$4,089.

Buttermilk powder led the gains, up 17.6%. It did not trade in the last event. GDT Cheddar was up 2.2% and butter was up 2.0%, after falling 2.8% last time. Anhydrous milkfat inched 0.8% higher, following a 3.7% rise. Skim milk powder was up 0.6%, after inching 0.7% higher, and lactose was down 6.5%, after shooting up 8.6% last time.

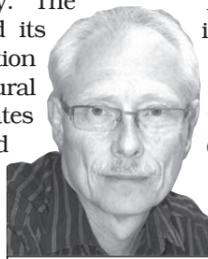
StoneX Group says the GDT 80% butterfat butter price equates to \$2.5558 per pound U.S., up 5.2 cents, and compares to CME butter which closed Friday at \$1.88. GDT Cheddar, at \$1.9928 per pound, compares to Friday's CME block Cheddar at \$1.83. GDT skim milk powder averaged \$1.5272 per pound, up from \$1.5197, and whole milk powder averaged \$1.8531 per pound, up from \$1.8521. CME Grade A nonfat dry milk closed Friday at \$1.2050 per pound.

Speaking of trade, the U.S. had a good February. StoneX Dairy reported that U.S. milk equivalent exports were up 16.3% from February 2020 when adjusted, and broker Dave Kurzawski talked about it in the April 12 Dairy Radio Now broadcast.

Nonfat dry milk/skim milk powder exports hit 157.8 million pounds, up 36.1% from a year ago, adjusted for the Leap Day, and up 11.2% year to date. Kurzawski said that powder exports to Mexico were up 27%.

Dry whey exports were good, thanks to China likely being the largest buyer of U.S. dry whey right now, up 22% from a year ago, according to Kurzawski.

Cheese exports totaled 66.5 million pounds, up just 1.1% from a year ago but down 3.9% for the two month period. However, February Cheddar exports were up 23.7%, according to Kurzawski.



MIELKE MARKET  
WEEKLY  
By Lee Mielke

Butter exports, which pale in comparison to powder for example, totaled 7.6 million pounds, but up 120.4% from a year ago and up 102.3% year to date.

Kurzawski admitted that we are comparing against some weaker numbers a year ago and that may account for some of the percentage increases this year however, "The absolute numbers are above our expectations," he said.

Block and barrel cheese producers reported strengthening food service demand this week, according to Dairy Market News. Some barrel producers said that April and May interests kept them from bringing loads to the spot market. Some Cheddar and jack cheese makers reported similar buyer interest. Cheese production is steady to ticking higher in plants throughout the Midwest though spot milk availability varies. Some milk prices were above the previous few weeks but some were \$5 under Class. A number of contacts suggest growing food service demand has kept milk availability a little tighter and "Cheese market tones are steady to slightly bullish," says DMN.

Central butter producers tell DMN that the culmination of spring holidays

did not move the needle regarding general week to week activities. Cream multiples are similar to previous weeks, though cream is still tighter than it was throughout most of first quarter. Still, butter makers report there are cream multiples in the low/mid 1.20s, but they are becoming more limited. Butter plant managers say food service sales have maintained strength for three to four consecutive weeks but retail sales are on a steady seasonal decline.

Grade A nonfat dry milk finished Friday at \$1.2050 per pound, up 1.50 cents on the week and 30.75 cents above a year ago, with 7 cars finding new homes on the week.

CME dry whey saw its first price decline since March 10 this week and slipped to a Friday close of 63 cents per pound, 3 cents lower on the week but 28 cents above a year ago. There were two trades on the week at the CME.

A quick footnote on the whey. There's a lot of concern about growing outbreaks of African Swine Fever in China, according to StoneX, "which has implications for dairy as well as grain markets."

The dairy markets are doing well, much to the credit of growing restaurant trade and consumer demand. Interestingly, StoneX April 6 Early Morning Update stated that on Friday, April 2, TSA screened just over 1.5 million people at

airports nationwide. It was the highest number recorded since March 12, 2020 which is actually the day before COVID was declared a national emergency. People were comfortable traveling and most likely shared meals with family members at home or restaurants," says StoneX.

On farm dairy margins were "flat to slightly higher over the second half of March, with significant volatility in nearby milk futures contracts and new life of contract highs in deferred months further out on the curve," says the latest Margin Watch (MW) from Chicago-based Commodity & Ingredient Hedging LLC.

"The market remains supported by strong demand against a backdrop of surging milk production and increasing dairy product inventories," the MW warned. "USDA's Milk Production report showed February output at 17.63 billion pounds, up 2.1% from last year and the ninth consecutive month of increased milk production. January's output was also revised higher to reflect 2.4% year-over year growth. Much of this increased output is being fueled by a larger milking herd which increased to 9.458 million cows in February, up 3,000 from January and 81,000 more than a year ago. The dairy herd is the largest since 1995 and strong production is expected to continue through the spring flush."

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# Indiana bill would pave way for farmers to tap into ecosystem market

By **TIM ALEXANDER**  
Illinois Correspondent

INDIANAPOLIS, Ind. — A bill that would pave the way for Indiana producers to tap into the expanding ecosystem market has passed the state House Judiciary Committee and is now in the hands of the state House of Representatives.

SB 373 would task the Indiana State Department of Agriculture with creating a panel of advisors and certified field inspectors to educate farmers and landowners and set parameters for carbon sequestration. It's enactment would allow farmers and forest owners to sell carbon credits to ecosystem market firms, companies and others based on verifiable conservation practices. Approved in February by the state Senate, the bill is now under consideration by the House, according to Brady Hagerty, PR manager-public policy for the Indiana Farm Bureau.

"SB 373 passed the committee 10-3 and is on its way to the full House," Hagerty confirmed to Farm World. "It will be on the House calendar (this) week."

The bill was the brainchild of retired Indiana Sen. Mark Stoops (D-Bloomington), who last year proposed a study on carbon sequestration opportunities and markets within the state. A working group of environmental, economic and agricultural interests was formed, leading to Sen. Susan Glick's (R-LaGrange) introduction of the bill in January.

"It's sort of like a statewide farmer's market for selling carbon credits," said Jeff Dukes, director of the Purdue Climate Change Research Center. "I think that could be appealing to a lot of people who are thinking about selling them because it would make it a little bit easier for them to figure out."

Tim Maloney, senior policy director for the Purdue Climate Change Research Center, said the ecosystem market program, when approved, will be voluntary and no one will be required to buy carbon offsets. "It's based on the idea that Indiana businesses — who are interested in reducing their carbon footprint and in the market to buy carbon offsets — should be able to buy these offsets

in Indiana, offsets that are generated by Indiana farmers and woodland owners, and by state-run forest conservation projects," Maloney explained. "If enacted, the bill will leverage new private investment for land, water and wildlife conservation in Indiana and reward farmers and woodland owners for stewardship practices that sequester carbon."

## How do farms sequester carbon?

According to the USDA-funded National Sustainable Agriculture Information Service, carbon sequestration in the agriculture sector refers to the capacity of agriculture lands and forests to remove carbon dioxide from the atmosphere. "Carbon dioxide is absorbed by trees, plants and crops through photosynthesis and stored as carbon in biomass in tree trunks, branches, foliage and roots and soils (EPA, 2008b). Forests and stable grasslands are referred to as carbon sinks because they can store large amounts of carbon in their vegetation and root systems for long periods of time. Soils are the largest terrestrial sink for carbon on the planet," the NSAI reported in a 2009

publication.

"The ability of agriculture lands to store or sequester carbon depends on several factors, including climate, soil type, type of crop or vegetation cover and management practices. The amount of carbon stored in soil organic matter is influenced by the addition of carbon from dead plant material and carbon losses from respiration, the decomposition process and both natural and human disturbance of the soil. By employing farming practices that involve minimal disturbance of the soil and encourage carbon sequestration, farmers may be able to slow or even reverse the loss of carbon from their fields. In the United States, forest and croplands currently sequester the equivalent of 12 percent of U.S. carbon dioxide emissions from the energy, transportation and industrial sectors (EPA, 2008b)."

## Who are the leading ecosystem market companies?

Some of the top ecosystem market companies that may choose to offer contracts to Indiana farmers include Indigo Ag, Nori, Ecosystem Services Market Consortium (ESMC) and the Soil and Water Outcomes Fund (SWOC). Company-to-company discrepancies in contract particulars exist, such as the data collected from farmers at enrollment, new practice requirements, third party practice verification and the ability to double-enroll properties in USDA-NRCS conservation programs.

The Illinois Soybean Association announced in February it would team with SWOC to offer producer contracts in Illinois starting with the northern counties of Bureau, DeKalb, DuPage, Grundy, Kendall, Lake, LaSalle, Lee, McHenry and Will, targeting 20,000 acres of new conservation practice adoption. SWOC plans to expand to more than 100,000 acres of cropland across Iowa, Ohio and Illinois in 2021, significantly increasing opportunities for farmers to earn compensation for implementing conservation practices that produce verified environmental outcomes.

Those who wish to learn more about ecosystem markets can access a helpful Ecosystem Market Information one-sheet issued by the Illinois Sustainable Agriculture Partnership at [www.ilsustainableag.org/ecomarkets](http://www.ilsustainableag.org/ecomarkets).



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# March hog numbers down 2 percent; but recovery on the horizon for 2021

By Doug Schmitz  
Iowa Correspondent

DES MOINES, Iowa - While the first quarterly USDA hog report of 2021 showed March numbers down from pre-report estimates, agricultural economists said this decline could actually signal an opportunity for the industry to recover from a very difficult 2020.

"This is not just a mildly bullish report," said Joe Kerns, CEO and founder of Partners for Production Agriculture in Ames, who analyzed the March 1 USDA Quarterly Hogs & Pigs Report, released March 25.

"This is the reprieve pork producers have been looking for, for quite some time," he added. "All of these (inventory) values came in below the range of estimates. If history is any indication, we could see further downward (inventory) revisions. This is very, very bullish."

Kerns joined James Mintert, professor of agricultural economics at Purdue University; Daniel Bluntzer, partner and analyst at New Frontier Capital Markets; and Steve Meyer, economist at Partners for Production Agriculture.

Sponsored by the National Pork Board and the Pork Checkoff in Des Moines, Iowa, the report said, as of March 1, there were 74.8 million hogs and pigs on U.S. farms, down 2 percent from March 2020, and down 3 percent from last December.

The report said of the 74.8 million hogs and pigs, 68.6 million were market hogs, while 6.21 million were kept for breeding. Between December 2020 and February 2021, 33.3 million pigs were weaned on U.S. farms, down 1 percent from the same time period one year earlier.

From December 2020 through February 2021, U.S. hog and pig producers weaned an average of 10.94 pigs per litter, the report said.

In addition, U.S. hog producers intend to have 3.07 million sows farrow between March and May 2021, and 3.12 million sows farrow between June and August 2021.

"This was a surprise. It really changes the outlook for what slaughter numbers will be," Mintert said. "It gives a stronger outlook for prices."

After reviewing quarterly reports going back to December 2019, Bluntzer said the U.S. sow herd has been reduced about 250,000 sows, a reduction "the industry hasn't seen since 2008-09."

"It's very interesting that we didn't really know how the market was going to react, we didn't know how production was going to react over the last year of COVID-19," he said. "And then on top of that, when we start to get re-

covery, we saw a pretty sharp rise in grain prices.

"In my estimation, it's one of those 1-out-of-6, 1-out-of-8 type of market reports - kind of a shocker; kind of gets the market thinking in a much larger direction," he added.

The report said while Iowa remains the nation's top hog producer, at 23.8 million head, the March 1 inventory was down 2 percent from a year ago. The December-February 2021 quarterly pig crop was 5.99 million head, down 5 percent from the previous quarter, but up 6 percent from last year, with a total of 530,000 sows farrowing during this quarter.

Moreover, Iowa's average pigs saved per litter was 11.3, unchanged from the previous quarter. As of March 1, Iowa producers planned to farrow 510,000 sows and gilts in the March-May 2021 quarter, and 510,000 head during the June-August 2021 quarter.

The report said Minnesota had the second largest inventory at 9 million head, and North Carolina was third, with 8.5 million head.

In Illinois, hogs and pigs March 1 totaled 5.25 million head, down 4 percent from Dec. 1, 2020, but up 2 percent from last year. Breeding inventory, at 580,000 head, was up 10,000 from the previous quarter, but unchanged from last year. Market hog inventory, at 4.67 million head, was down 4 percent from last quarter, but up 2 percent from last year.

In Indiana, hogs and pigs totaled 4.35 million head, up 350,000 head from a year ago. Breeding hog inventory, at 260,000 head, was up 10,000 from last March. Market hog inventory, at 4.09 million head, was up 9 percent from last year. The average pigs saved per litter for the December-February 2021 quarter was 10.7, compared to 10.6 last year.

In Michigan, hogs and pigs totaled 1.31 million head, up 70,000 head from a year ago. Breeding hog inventory, at 120,000 head, remained unchanged from last March. Market hog inventory, at 1.19 million head, was up 6 percent from last year. The average pigs saved per litter for the December-February 2021 quarter was 10.4, compared to 11.00 last year. (Kentucky and Tennessee hog numbers were not included in the report.)

In Ohio, hogs and pigs totaled 2.55 million head, down 100,000 head from a year ago. Breeding hog inventory, at 200,000 head, was unchanged from last March. Market hog inventory, at 2.35 million head, was down 4 percent from last year. The average pigs saved per litter for the December-February 2021 quarter was 10.4, compared to 11.00 last year. (Kentucky and Tennessee hog numbers were not included in the report.)

(Hog continued on page 7B)



Above: While the first quarterly USDA hog report of 2021 showed March numbers down from pre-report estimates, agricultural economists said this decline could actually signal an opportunity for the industry to recover from a very difficult 2020 (photo courtesy of the American Farm Bureau Federation).

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# 4 years in prison for transporting stolen cattle and for bank fraud

BISMARCK, N.D. (AP) — A Mandan man will serve four years in federal prison for bank fraud and transporting stolen livestock across state lines.

Kelly Glatt took out a \$1.5 million loan to purchase cattle and supplies, but took steps to hide collateral and assets from the bank involved, according to prosecutors. Glatt, 39, was also convicted of stealing cattle from other ranchers and transporting the stolen livestock from North Dakota to South Dakota.

A federal jury found Glatt guilty last October of the crimes committed from February 2014 to July 2017.

"The defendant took advantage of and defrauded both hardworking ranchers and a North Dakota financial institution," said Acting U.S. Attorney Nick Chase.

U.S. District Judge Daniel Traynor sentenced Glatt to four years in prison on bank fraud and three years for the transportation conviction. The sentences will run concurrently.

Traynor also ordered Glatt to serve three years of supervised release and pay restitution of \$1.8 million.

The North Dakota Stockmen's Association, the FBI and the Morton County Sheriff's Office investigated the case.

## Hog

FROM PAGE 6B

Mintert said, "One of the positives coming out of this first quarter is the fact that the U.S. is apparently ahead of many other countries with respect to vaccinations, and perhaps a return to more normal behavior on the part of consumers."

"I think there's a lot of pent-up demand among consumers to get out, a lot of pent-up demand at the restaurant and institutional level, and it's going to be interesting to see how that plays out," he said.

Looking ahead to May and June, he added the lower hog numbers in the report actually "(bode) well for the meat industry in general, in terms of seeing that rebound for pork and beef, and to some extent, chicken, as well. I think it's a very positive outlook on the demand side."

He said U.S. pork exports to China were roughly double what they were in 2019; however, there's uncertainty about what that volume might be for the remainder of 2021.

"Given the issues they seem to be having with African swine fever, what does that imply about pork exports?" he asked. "Will we see a rebound in those pork exports? They were a little bit weaker in January, but are we going to see a rebound in that?"

Using the CME Lean Index, Bluntzer estimated prices in the second quarter of 2021 at \$96 per cwt., the third quarter at \$91; and the fourth quarter at \$76.

Kerns used the National Net All Price Methods, and forecast the second quarter at \$101 to \$104 per cwt.; the third quarter at \$99 to \$102; and the fourth quarter at \$81 to \$84; and the first quarter of 2022 at \$79 to \$83.

Mintert used the National Weighted Average Base Carcass Price, and forecast the first quarter at \$75 per cwt.; the second quarter at \$80 to \$84; and the third quarter at \$80 to \$85; and the fourth quarter at \$70 to \$76.

If realized, he said hog prices could increase 25-27 percent this year, compared to 2020. "It could be a very positive year for pork producers to recapture some of the losses of 2020," he said. "If you think about these supply numbers, it was a challenge to think about the change coming in."

"Looking at prices, we're all quoting different indexes, which makes it difficult to compare," he added. "It might be more useful to think of it in terms of percentage change."

The analysts said the lower hog inventory numbers not only reflect pull-back by farmers due to low returns and higher feed costs, but losses incurred from outbreaks of porcine reproductive and respiratory syndrome.

"I think some of those (losses) are already in the (USDA) numbers," Bluntzer said. "And I think feed prices could have been the X factor that stopped any more expansion."

Michael Nepveax, American Farm Bureau Federation economist, said, "Overall, this report is widely considered bullish for producers, and signals an opportunity for the industry in terms of recovering from a very difficult 2020."

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# Building a brand: Local dairy farm finds success in ice cream

By Terence Corrigan  
Tennessee Correspondent

UNIONVILLE, Tenn. — Although they lost all their cows to sickness just three years after starting their dairy operation at the beginning of the Great Depression, Wallace and Ida Nash prevailed. The Nash family dairy operation thrived in the Central Valley of California for nearly 80 years, run by three generations of the Nash family. The fourth generation of the family — including Cody Nash and his sister Stephanie — has established its place with the family farm, which is now located in Bedford County, Tenn.



**Above:** Cody Nash discusses the workings of the creamery's ice cream machine. The machine makes five gallons with each run. Photos by Terence Corrigan

The family members involved in the farm operation today are Cody and his wife Kara, Stephanie, and his mom and dad, Terry and Steve.

The Nash family had moved the California farming operation once before, nearly 80 years earlier, to Conejo, a small rural community south of Fresno. In 1935, Howard, became the second generation of the Nash family to run the dairy operation, growing the business from 30 cows to 200 and from 60 acres to 280. Howard ran the farm for over four decades, passing it along to his 20-year-old son, Steve, in 1979.

Steve, like his father and grandfather before him, grew the dairy operation: from 200 cows to 1,200 in 20 years.

Loss of a cow herd and a Great Depression weren't enough to force the Nash family out of the dairy business in California, but by the mid-2000s declining prices for milk combined with the rising cost of doing business in California and increasing government regulations and tightening restrictions on water use, caused the family to start looking throughout the country for greener pastures.

The settled on Tennessee, Cody Nash said in an interview at their 500-acre farm just north of Unionville. "Tennessee is pro-Ag and pro-business. The state Ag department is really great to work with," Cody said. "We looked at a lot of states before we decided upon Tennessee. It's a real good fit."

The Nash Family Farm milked for the first time in Tennessee on Christmas Day 2013. "I think we milked 11 cows



**Above:** One of the Nash Family Dairy's free stall barns. The barns are equipped with fans and mister systems to keep the cows comfortable in the summer heat.

that first day," Cody said. "It was so cold. It was so cold. The milk froze in our tank. It was quite an ordeal."

Today, the milk around 1,200 cows twice daily, producing 8,000 to 9,000 gallons a day. When they started in Tennessee, they were hauling their milk with their own trucks to a Dean Foods processing plant in Birmingham, Ala. — 160 miles one way. Following the Dean Foods bankruptcy, the market turned in their favor — a rare thing in dairy farming — and the Nash's now haul their milk just 30 minutes to Heritage Farms Dairy in Murfreesboro.

The Nash's moved their entire operation, including 1,800 cows, tractors and other farm equipment, over 2,000 miles from Fresno to Unionville with just a one-day stopover in San Antonio, Texas to give the cows a break. "All the cows made it," Cody said, "except one and one had a calf on the way over so it was a net-zero loss." Also coming along with the Nash family were many of the dairy farm's 20 employees.

As part of the move to their new home in Tennessee, the Nash family changed their record-keeping from hand written notes to a higher tech system for monitoring and managing their herd. Cody used to stand alongside his dad taking notes as the cows moved into their places in the milking parlor. With the new system, the cows' ear tags are scanned electronically and everything about each cow's health and history is available on a touch screen — how much milk they're giving, medical records, vaccination records, etc. — and when they leave the parlor they are guided through an automatic sorting gate system to send them to the proper free stall barn.

The new parlor setup also required some training for the cows. In California, the Nash cows were accustomed to entering their milking stations at a 45 degree angle and they were milked in front of their rear legs. With the new system, they make a full 90 degree turn and are milked between their rear legs. When the cows first started with the new setup, Cody said. "We had to move each cow (by hand) that extra 45 degrees. We had to retrain them."

### Climate control for cow comfort

An adaptation needed for dairy farming in Tennessee versus California was getting used to the higher humidity. In the Central Valley of California it routinely gets hot in the summer but the humidity is almost non-existent. It took some getting used to for the family and their employees. It also presented problems for the cows. In Tennessee, it gets hot and humid and the Nash's California cows were not ready for it. "In California it would get to 110 degrees, but it's dry," Cody said. "Throw in the humidity and it's a game changer. The cows were not used to it, they had to adjust to it."

The cows did not get air conditioning but they did get some climate controls including misters, curtains and huge fans in their free stalls where they lounge around and eat between milkings. The

fans create a 10-15 mph wind in the barns. "It keeps them real comfy," Cody said.

### Farm to table

Cody, a recent college graduate, is creating a new aspect of the Nash family business: marketing farm products directly to consumers. He graduated from Wilmington College in Ohio majoring in ag business with a minor in business management.

"Before I got into college I knew I wanted to do some sort of value added business, get our name on dairy products," Cody said. He wanted to build a family brand, which has proven to be the road to success for smaller family farms.

While in college, he worked for the Young's Jersey Dairy in Yellow Springs, Ohio. The Young's operation combines a working dairy farm with a store that sells their farm's bottled milk, their own cheeses and other dairy products and provides family friendly activities including a petting zoo and holiday festivals.

It was at Young's that Cody decided he wanted to make ice cream. To that end, he enrolled in the 128-year-old Ice Cream Short Course at the Department of Food Science at Penn State. The seven day course is intensive, Cody explained: 10 hour days in the labs and classrooms. The college describes the course as "Taking you from cow to cone."

Ice cream, Cody said, seemed to him to be the best way to begin directly marketing to the community. "I make all the ice cream myself," he said. "This is a good way to get a lot of people in the door, to start building a brand."

### The Nash Family Creamery

On Sept. 17, 2020, the Nash Family Creamery opened, selling the ice cream Cody makes and products from other area farms. Cody and his mom, Terry, are the driving forces behind the store.

They sell meats from Potts Meat Processing in Wartrace (added at the end of February), beef from Pleasant Valley Farms in Shelbyville, honey from TruBee Honey in Eagleville, barbecue and hot sauces from Captain Rodney's of Lewisburg, and fruit cider from Morning Glory Orchard in Nolensville.

The Nash family will be adding their own line of cheeses to the shelves by this summer. Also in the store they offer a wide variety of grilled cheese sandwiches and some options like turkey and cheese. Of course, they also offer ice cream, in homemade waffle cones or by the pint. (A note: try to get there and enjoy the aroma when they're making the waffle cones).

The store is open Sundays from 11 a.m. to 6 p.m.; Tuesday, Wednesday and Thursday from 11 a.m. to 7 p.m.; and Fridays and Saturdays from 11 a.m. to 8 p.m. They will soon be packing six of their most popular flavors in 8 ounce cups (spoons included) to be sold in local grocery stores. The phone number for the Nash Family Creamery is 931-294-2999.

PRODUCTIVE FARMLAND • 3 BED, 2 BATH COUNTRY HOME • FENCED PASTURE • POND

WALDRON, IN | SHELBY CO. **147.79<sup>+/-</sup>**  
total acres

# AUCTION

3 TRACTS

ONLINE at [halderman.com](http://halderman.com) OPEN HOUSES:

BIDDING OPENS: April 29<sup>th</sup>, 8:00 am EST April 13<sup>th</sup>, 5:30 - 6:30 pm  
BIDDING CLOSSES: April 30<sup>th</sup>, 6:00 pm EST April 18<sup>th</sup>, 1:00 - 2:00 pm

PROPERTY LOCATION: 3105 S 800 E, Waldron, IN 46182

**HALDERMAN** Halderman-Harmeyer  
REAL ESTATE & FARM MANAGEMENT Real Estate Services  
800.424.2324 | [halderman.com](http://halderman.com)

Contact us, today!  
Michael Bonnell: 812.343.6036 | Dave Bonnell: 812.343.4313  
Rusty Harmeyer: 765.570.8118

Auctioneer: Russell D. Harmeyer IN Auct. Lic. #AU10000277, HRES IN Auct. Lic. #AC69200019, OWNER: PATRICIA SHIRK, HLS#MDB-12611

COALMONT, IN | CLAY CO. **ONLINE**

# AUCTION

TRACT 1: 3.39<sup>+/-</sup> Acres  
TRACT 2: 37.44<sup>+/-</sup> Acres

at [halderman.com](http://halderman.com)

BIDDING OPENS: April 27<sup>th</sup>, 8:00 am EST **40.83<sup>+/-</sup>**  
BIDDING CLOSSES: April 28<sup>th</sup>, 6:00 pm EST total acres

PROPERTY LOCATION: Southeast edge of Coalmont, along east side of State Hwy 159

CROPLAND · WOODS · MULTIPLE LOTS WITH EXCELLENT OPPORTUNITIES FOR BUILDING SITES

**HALDERMAN** Contact Todd, today! **TODD LITTEN: 812.327.2466**  
REAL ESTATE & FARM MANAGEMENT

800.424.2324 | [halderman.com](http://halderman.com)

Auctioneer: Russell D. Harmeyer IN Auct. Lic. #AU10000277, HRES IN Auct. Lic. #AC69200019, OWNER: MCDONALD, HLS#TML-12609

RURAL RESIDENCE | BUILDING SITES

# AUCTION

6 tracts

April 21<sup>st</sup>, 6:30 pm EST **180.58<sup>+/-</sup>**  
total acres

MONTGOMERY CO 4-H FAIRGROUNDS  
400 Parke Ave, Crawfordsville, IN 47933

OPEN HOUSES

PROPERTY LOCATION April 3 10:00 - 11:30 am  
April 6 4:00 - 6:30 pm

TRACTS 1-2: 4750 N 100 W, Crawfordsville, IN 47933  
TRACTS 3-6: 2.5 miles north of Crawfordsville at the intersection of CR 550 N and 100 E

**GARY BOHLANDER: 765.794.0221**

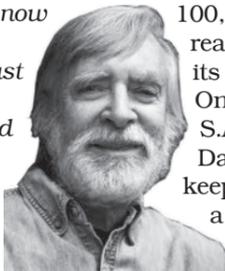
Auctioneer: Russell D. Harmeyer IN Auct. Lic. #AU10000277, HRES IN Auct. Lic. #AC69200019, OWNER: JA TAYLOR FARM, HLS#GDB-12603

**HALDERMAN** Halderman-Harmeyer  
REAL ESTATE & FARM MANAGEMENT Real Estate Services  
800.424.2324 | [halderman.com](http://halderman.com)

# 2 meteor showers coming to April skies

The Snows are thaw'd, now  
grass new clothes the earth,  
And Trees new hair thrust  
forth.

The Season's chang'd, and  
Brooks late swoln with rain,  
Their proper bankes  
contain. — Sir Richard  
Fanshawe, from Ode IV, 7 of  
Horace



POOR WILL'S ALMANACK  
By Bill Felker

## The Moon and the Meteors

The new Cows Switching  
Their Tails Moon waxes throughout  
the week, reaching apogee, its position  
farthest from Earth on April 14 at  
1 p.m. and coming into its second  
quarter at 1:59 a.m. on April 20. Rising  
in the late morning to early afternoon  
and setting after midnight, this moon  
passes overhead through the afternoon  
and evening, encouraging creatures to  
feed more at that time, especially as the  
cold fronts of April 16 and 21 approach.

The Lyrid meteor shower begins on  
April 16 and peaks on April 21-22.  
Expect up to 20 shooting stars per  
hour in Lyra, almost overhead in the  
eastern sky after midnight. The Eta  
Aquarid meteors run from April 19 to  
May 28, peaking in May. Find them low  
in the east before dawn while you are  
still looking for the Lyrids.

## Weather Trends

The chances of a high above 50  
degrees are 85 percent on almost every  
day during April's third quarter, and  
temperatures above 60 come at least  
half the time.

Beginning on the 16th of the month,  
a major increase in the average daily  
amount of sunlight takes place: a  
rise from early April's 50/50 chance  
of sun or clouds up to a brighter 70  
percent chance of clear to partly cloudy  
conditions. High-pressure systems  
arriving on the 16th and 21st bring  
increased chances of rain, followed by  
improved chances of sun. Beginning on  
the 20th, the chances of an afternoon  
high in the 70s or 80s jumps from an  
average of 25 percent to 45 percent.

## Zeitgebers

(Events in Nature that Tell the Time of Year)

Bleeding hearts have hearts.  
Redbuds are turning a deeper pink  
and purple. American toads are  
chanting, and hummingbird moths  
and bumblebees come out to sip the  
flowering of dandelions.

This week usually brings full bloom  
to apple trees, redbuds and dogwoods  
along the 40th parallel.

Grape vines are leafing out. The  
juniper webworm emerges, and Eastern  
tent caterpillars may begin to weave  
webs on flowering fruit trees.

Grasshoppers are born in the woods  
and hedgerows. Locusts, mulberries,  
ash, tree of heaven, and ginkgoes get  
their foliage. The first daddy longlegs  
spiders are hunting.

Now the major time of mid-season  
daffodils and tulips begins across  
the region. Aphids appear almost  
everywhere. Pheasants and woodcocks  
nest along the fencerows.

By this time of the year, honeysuckles  
and spice bushes have developed  
enough to turn the undergrowth pale  
green.

Between now and the first of May,  
most dandelions go to seed at lower  
elevations in the central states.

Frogs mate at the same time as cherry  
trees bloom. When you see magnolia,  
dogwood and Bradford pears in flower,  
and daffodils are at their peak, it's time  
to put in barley, band seed alfalfa and  
top-dress winter wheat.

## Mind and Body

The S.A.D. Index, which measures  
seasonal stress on a scale from 1 to

100, falls slowly through the 30s,  
reaching a gentle 28 on April 20,  
its lowest reading so far this year.  
Only a very few people experience  
S.A.D. between now and the Dog  
Days of July - when heat may  
keep you inside and contribute to  
a summer cabin fever.

## In the Field and Garden

Pastures fill with blooming  
cress. Flies bother the cattle.

In the Great Lakes region,  
commercial cabbage transplanting is  
underway.

Throughout the country's midsection,  
black and gray morel mushrooms  
come up at this time of the month, the  
same time that orchard grass is ready  
to harvest. When mosquitoes become  
troublesome, the morel season is about  
over.

In your lawn, thyme-leafed speedwell  
flowers at the same time as morels  
appear.

Pastures turn gold with the major  
dandelion bloom of the year - a time  
which coincides with the movement of  
largemouth bass to shallow water.

Now farmers sow spring grains  
along the Canadian border, soybeans  
in Mississippi, and sugar beets in the  
Midwest.

When the tree line starts to turn  
green, weevils appear in alfalfa, and the  
big field corn planting push begins all  
across the central states.

## Almanack Classics

### Good Memories

#### By Hallie Moser, Defiance, OH

I am old enough to remember the  
horse and buggy days, and I also am  
old enough to remember the first car  
we had.

My father came in the house and told  
my mother he was going to Sherwood  
and buy a car. She told him to buy a  
new one, not one someone else had.  
Anyway, one of my brothers took him  
to town to Moat's Ford, and he bought  
a 1918 Ford touring car. They told him  
how to start and stop the car and sent  
him on his way.

We lived down a lane, so we all went  
outside to see him and his new car. He  
came driving down the lane, and when  
he got to the barnyard, he leaned back,  
gripped the steering wheel and yelled,  
"Whoa! Whoa!"

He finally came to his senses and  
put on the brakes before he hit the  
barnyard gate.

We had the car until 1926 and sold  
it at auction after Dad passed away. It  
was a good car, and Dad took good care  
of it.

Good memories!

## Poor Will Needs Your Stories!

Poor Will pays \$4.00 for unusual and  
true farm, garden, animal and even  
love stories used in this almanack!  
Send yours to Poor Will's Almanack at  
wlfelker@gmail.com or to the address  
below.

## ANSWERS TO LAST 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 one of Poor  
Will's typos, add another 15 points to  
your IQ.

- |            |            |
|------------|------------|
| OTULC      | CLOUT      |
| RHTGUOTUHO | THROUGHOUT |
| UUALMT     | UMLAUT     |
| TTHUOWI    | WITHOUT    |
| ODUTB      | DOUBT      |
| TTBOUHREEA | THEREABOUT |
| TOUPSRETAW | WATERSPOUT |
| RAUTERUAS  | SAUERKRAUT |
| OBATU      | ABOUT      |
| TUDEOV     | DEVOUT     |

## THIS WEEK'S RHYMING SCRAMBLER

- RDUOGHT
- OPTU
- URTO
- CTUSO
- HUOST
- NSOTU
- TPOUS
- TRSPUO
- OTUTS
- TUROT

Poor Will's Almanack for 2021 (with  
the S.A.D. Index) Is Still Available!

For your autographed copy, send  
\$20.00 (includes shipping and  
handling) to Poor Will, P.O. Box 431,  
Yellow Springs, Ohio 45387.

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## SPRING AUCTION NOTICE

**CONNERSVILLE, IN SATURDAY, APRIL 24**

**Koons SPRING Tractors, Farm Machinery, Tools, Lawn Equip. & Trucks Consignment Auction**

Turn your machinery into cash in one day.  
**Consign by April 8th for free advertising.**

We have a good demand for good used farm machinery and trucks. For more information on consignment and advertising of items, **CALL TODAY - ROGER KOONS or MIKE KOONS. Thank You!**

(Lic. #AU08602727) (Lic. #AU08602719)

**Koons Auction & Realty Co.**  
1324 East 5th St.  
P.O. Box 617, Connersville, IN 47331  
765-825-3594  
www.koonsauctions.com  
Cell 765-265-0012  
765-309-6235

## ANNUAL SPRING FARM CONSIGNMENT SATURDAY, APRIL 17TH, 9:30 AM

**LOCATION: THE MYERS FARM, 9577 B DRIVE N BATTLE CREEK, MICHIGAN**

**TRACTORS:** Ford 2000 Diesel; JD D; IH 660; Oliver 77 Diesel; (2) Oliver 77 Gas; Oliver 88 Diesel; JD 60; Pettibone All Terrain Shooting Boom Loader/Forklift; Ford 9N; **COMBINES:** John Deere 9600, Straddle Duals; Gleaner M2; JD 925 Grain Head w/Unverferth Head Cart; JD 893 Corn Head w/Unverferth Head Cart; **EQUIPMENT:** New Holland 648 Round Baler, w/Bale Command, 4026 Bales; New Holland 1411 Discbine, 540 or 1000 PTO; H&S ST-520 4-Basket Tedder; John Deere Tandem 750 No-Till Drills w/JD Hitch; Kewanee 22' Disc w/New Blades & Brgs.; NI 212 Spreader; IH #10 13-Hole Drill w/Seeder; JD 660 Hay Rake; Taylor-Way 9-Shank Chisel Plow; NH 352 Grinder Mixer; Arts-Way 425A Grinder Mixer; Ford 3-Pt. 3-Btm. Plow; JD 210 14' Disk; 3-Axle Gooseneck Trailer; IH 20' Cart Drag; Great Plains 750-Gal. Sprayer; 60' Boom, Radar, Hyd. Boom, Extremely Nice Sprayer; Tye 10' No-Till Drill, Very Good Condition; White 435 10-Shank Disc Chisel; Eversman Model 600 6-Yard Scraper; John Deere 2510 Gas. **Partial Listing. There Will Be 100's Of Items Consigned After The Advertising Deadline. Our Spring Sale Will Generally Have 40 To 50 Tractors.**

No Items Consigned Sale Day • All Items Sell As-Is  
\$7.50 Minimum Commission On All Small Items  
Tires May Be Accepted At The Discretion Of Auctioneers  
All Items Are The Responsibility Of The Buyer Upon Sold

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Tekonsha, Michigan  
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**BRIAN HASTY**  
Auction Company

## FARM AUCTION FOR THE ESTATE OF TERRY WILSON SATURDAY, APRIL 24TH, 10 A.M.

**9969 N COUNTY RD 150 E, PITTSBORO, IN 46167**

FROM I-74, TAKE EXIT 61 (PITTSBORO) GO 1 MILE, TURN LEFT ONTO CO RD 900 N, GO 1.5 MILES AND TURN RIGHT ONTO CO RD 150 E, GO 1 MILE, SALE IS ON THE RIGHT.

JD 4520 W/ CAB · CASE 4690, 4WD, 3PT, PTO, 5085 HRS · CASE 2590 W/ DUALS · FORD 7710 W/ CAB, 4140 HRS · HESSTON 980 W/ CAB · CASE 580 SUPER K BACKHOE W/ CAB, EXT-A-HOE, 4WD, (2) 16" BUCKETS & (1) 36" BUCKET, 6000 HRS · DITCH WITCH 7610 TRENCHER W/ BACKHOE · JD 7720 COMBINE · JD 7720 TITAN II, ENGINE FIRE DAMAGE · JD 643 CORN HEAD · JD 216 GRAIN HEAD · (2) JD 216 GRAIN HEADS (FOR PARTS ONLY) · KINZE 2500 8/15 SPLITTER PLANTER · NITROMASTER 7200 SERIES ANHYDROUS APPLICATOR · JD FIELD CULTIVATOR, 13', 3PT · HINIKER 1224 FIELD

CULTIVATOR, 24' · AC FIELD CULTIVATOR, 28' · BRILLION DISK CHISEL, 11-SHANK · GLEN-COE DISK CHISEL, 9-SHANK · MF M820 DISK, 28' · 400 BU AUGER CART · (5) 250 BU GRAVITY WAGONS · WESTFIELD 10"X71" SWING AWAY AUGER · EZ TRAIL 680 HEAD CART · (3) RUNNING GEARS · TAYLORWAY 967 TILLER, 7', 3PT · ROTARY MOWER, 6', 3PT · 18.4-38 SNAP ON DUALS · (5) 16"X20' STEEL PIPE · (1) 12"X20' STEEL PIPE · (2) LARGE SHOP AIR COMPRESSORS · (4) ROLL AROUND CRAFTSMAN TOOL BOXES · MISC TOOLS · 16' HOMEMADE BUMPER HITCH TRAILER.

**Ted Everett & Kurt Everett, Auctioneers, Mowrovia, Indiana**  
AU#01013141 AU#08701600 OFFICE: 317-996-3929  
Ted Everett 317-370-3113, Kurt Everett 317-691-4937  
Jeremy Edwards, Auctioneer, Waynetown AU#09100129 765-366-4322  
Austin Jordan, Mooresville AU#11300118 317-432-1338  
**SEE OUR WEBSITE AT TEDEVERETT.COM FOR MORE INFORMATION**

## CONSIGNMENT AUCTION

### Farm Machinery and Variety Items

### Saturday, May 1st, 2021 at 9:00 AM

**NEW LOCATION CLAYS 3 WAREHOUSE - NEXT TO AG-WOOD**  
**1132 Levee Road, Mt. Sterling, KY**

**NO BUYER'S PREMIUM**

For Information Call: Roger Wilson 859-498-1999 or 859-585-1999  
Auctioneer: Steven Howe

**TWO RINGS SELLING STARTING AT 9 AM**  
WE ENCOURAGE SOCIAL DISTANCING 6 FEET APART AND MASK  
**RECEIVING: Monday, April 26th to Friday, April 30th, 2021**  
**9:00 AM-5:00 PM**

TERMS: Cash, or good check. Out-of-state checks require a bank letter of credit. Announcements day of auction take precedence over printed matter. Purchased items must be removed by Wednesday, May 5th, 2021.

ANY SALES AGREED TO ON PREMISES MUST PAY COMMISSION  
WE ARE NOT RESPONSIBLE FOR ACCIDENTS

DIRECTIONS: From I-64, turn toward Mt. Sterling. Turn right onto Route 686/Bypass. Continue to Route #11/Levee Road & turn right at the traffic light. Ag-Wood Warehouse will be on the right. Watch for the sign.

# LANDPROZ of Indiana LAND AUCTION

**442 ACRES+/- ORANGE AND DUBOIS COUNTY, IN**



**ONLINE BIDDING CLOSING**  
**APRIL 17**  
10:30 AM

#1968 Farm

**Auction Location:** Stadium 4 Theater Parking Lot:  
573 S Arnold F Habig Blvd, French Lick, IN 47432

**LIVE AUCTION WITH ONLINE BIDDING AVAILABLE**

442 premier acres in Orange and Dubois counties, Indiana. Located minutes from historic French Lick and West Baden and beautiful Patoka Lake. This beautiful rolling land offers half tillable and half recreational acreage full of wildlife with many opportunities to develop an extraordinary plan for whitetail deer, turkey, cotton tail rabbits, red fox, pheasant, quail, and geese. The tillable land is productive, good for no-till corn and soybean rotation and includes 2 Tracts with recent successful hay production. The property has excellent potential for enrollment and implementation into a USDA conservation reserve program. These tracts offer many beautiful building sites seven (7) different barns on the property that would be great for equipment, boats, workshops and other recreational gear. This farm is situated about 115 miles from Indianapolis, Indiana and 70 Miles from Louisville Kentucky within 30 minutes+/- of I-64. The Conrad farm is subject to tenant's rights for 2021.

**TERMS:** 10% (non-refundable) down on each tract the day of the sale. Balance due at closing, on or before May 17, 2021. Subject to tenants rights 2021. Any statement made the day of the auction takes precedence over previous material. All information provided herein was obtained from sources deemed reliable, but neither the auction company nor seller guarantees its accuracy. Please contact Eric Richards at 317-557-1376 or Brian Owens at 812-528-7021 for more information on this property!

**BRIAN OWENS**  
LANDPROZ AGENT  
AUCTIONEER  
Lic: Indiana  
812-528-7021  
brianowens@landproz.com

**LANDPROZ OVER**  
**190,000**  
ACRES  
SOLD IN THE MONTH

**ERIC RICHARDS**  
LANDPROZ AGENT  
BROKER / FARM MANAGER  
Lic: Indiana  
317-557-1376  
ericrichards@landproz.com

**LANDPROZ.COM**  
Broker Andrew Fansler - Indiana  
LandProz of Indiana Real Estate, LLC • 3150 North County Rd 700W, Saint Paul, IN 47272



# AUCTION

## UNION COUNTY FARM

### 128 ACRES VACANT LAND

### THURSDAY, MAY 13 • 6 P.M.

**AUCTION LOCATION:** Leeds Farm at 8738 Marysville Road, Ostrander, OH. North of Ostrander off Ostrander Road to Marysville Road. (Watch for signs.)  
**FARM LOCATION:** 23001 Buck Run Road, Milford Center, OH. 7 mi. SW of Marysville, OH, 4 mi. NW of Milford Center. Watch for signs off SR 245 or Middleburg-Plain City Road to Buck Run Road.

**A GOOD PRODUCING GRAIN FARM IN HIGH STATE OF FERTILITY!**

- \* 118 AC. TILLABLE
- \* PEWAMO & BLOUNT SOILS
- \* 100 ACRES SYSTEMATICALLY TILED

5,900 ft. road frontage on Buck Run Road and N. Darby Coe Road  
\*Subdividing/Development Potential

**Successful bidder can plant 2021 crop immediately after auction date before closing**

**PREVIEW: THURSDAYS, APRIL 29 & MAY 6**  
**FROM 4:00 TO 6:00 PM**  
**GRENER FARMS LLC, OWNER**  
Mike Weasel, Sale Manager | 614-774-2460

**FOR DETAILED BROCHURE CALL**  
**800-450-3440 or www.wilnat.com**



## WILSON NATIONAL LLC

A REAL ESTATE & AUCTION GROUP  
Mark Wilson and Brandon Wilson, Auctioneers

**www.auctionzip.com, #48818**

### '17 CHRYSLER PACIFICA LIMITED, '04 FORD F150 LARIAT, ANTIQUE TRACTORS, '00 WRANGLER SAHARA, DIXIE CHOPPER, GOLF CART, GUNS, AMMO & MUCH MORE

**OPEN HOUSE: SUNDAY, APRIL 11 @ 1:00-4:00 PM**  
**AUCTION: SATURDAY, APRIL 17 @ 10:00 AM**

**LOCATION: 4573 W 550 N, KOKOMO, INDIANA 46901**  
(West of Kokomo on State Road 22 to 400 West, then North to 550 North and follow the signs)

**VEHICLES:** NICE 2017 Chrysler Pacifica Limited, silver, 9sp FWD Automatic, 50,050 miles, remote start, keyless, panoramic sunroof, all power, totally loaded; 2004 Ford F150 4X2, Lariat 5.4 Triton, Arizona beige ext., tan leather int, 4 dr, fiberglass bed cover, 113,264 miles; 2000 Wrangler Sahara Jeep, soft top, 2 dr, sand color, automatic, 4.0L, seat covers never been off, 124,257 miles, good tires; 1995 Ford F150 XLT, 94,000 miles; **ANTIQUA TRACTORS:** 1969 Allis-Chalmers 170 tractor w/loader, 2,402 hours, 3 pt hitch, wheel weights, 16.928 tires @ 70%; 1947 International Harvester Farmall "M", w/ new front & rear tires; 1951 John Deere "G" w/ electric start; 1950 John Deere "A" w/electric start; **TRAILER:** Aluma flatbed alum trailer, 6.5 X 9.5, w/attached ramp; **MOWER & PLOW & GOLF CART:** John Deere pull type 3 bottom plow; E-Z-GO golf cart, gas powered w/top and windshield; Dixie Chopper 3160 HP w/60" deck 260 hrs, gas powered; **GUNS & AMMO:** Walther P22, .22 LR with case; 1,000 rounds 9mm; 200 rounds .223; 300 rounds .22 LR

ammo; loaded ammo: .410, .12 ga, 28 ga; lg lot empty gun casings: .410ga, .20 ga, .28ga, 12 ga; **TOOLS:** Metal horizontal commercial grade band saw; International press; very old original drill press; acetylene torch set w/cart, hoses, gauges; air compressor; heavy metal welding table; very old stick welder; Marquette Hi-Rate Battery Charger tester; Engine stand; heavy duty floor jack; Craftsman 18vt tool set w/charger; lg lot misc shop hand tools; Craftsman rolling stackable tool chest; large air compressor, single phase; 1 hydraulic cylinder; lg bench vise; bench grinder; Dole Grain moisture tester; 18V Craftsman tool set; **LAWN & GARDEN:** John Deere yard cart; ATV 50 gal tank sprayer; yard tools; sprayers; Stihl gas weed trimmer; Echo gas blower; **MISC:** ladders; portable air tank; old seed sacks; antique wooden wagon parts; International engine lift; Sears3 wheel bike; Hotpoint frig; lg lot ext. cords; chains; scrap steel; Antique hay trolley w/railing; lg quantity of old burlap sacks & old cotton seed sacks w/original imprint

**TERMS & CONDITIONS:** Everything sells "as-is"; not responsible for goods after sold: cash, check, debit/credit cards accepted. Please wear a face mask and social distance. Hand sanitizer will be provided.

**BURT, SELLER**  
**MILLER & MILLER AUCTIONEERS (765) 438-7529**  
Tim Miller, Auction#AU10100015

# Nutrient dense fish makes a nutritious, delicious meal

Fish is a good addition to your diet, according to Abbi Sampson, MA, RD, LD. Sampson is a health and human sciences educator with Purdue University Extension in Putnam County. She has developed a series of four webinars on safely handling and cooking wild game. Sampson said fish is a healthy choice of lean, high quality, low calorie source of protein, it is delicious and nutritious.



tomatoes, onion, celery root and butter and bake in a hot oven (400) for 30 minutes. Strain the sauce. Mix flour, egg yolk and cream or evaporated milk.

Add to sauce and cook 5 minutes, stirring constantly. Add Worcestershire sauce and pour over fish. Serves 8. Source: Cy Littlebee's Guide to Cooking Fish & Game

tomatoes, onion, celery root and butter and bake in a hot oven (400) for 30 minutes. Strain the sauce. Mix flour, egg yolk and cream or evaporated milk.

Serves 8. Source: Cy Littlebee's Guide to Cooking Fish & Game

### Fish Sticks

- 1 c. yellow cornmeal
- 1 egg (well beaten)
- 1 c. flour
- Salt and pepper to taste
- About 2 lbs. fish

Clean fish in your usual way, remove bones if you can or fillet your fish. Cut up fish crosswise about 1 1/2-2" thick. Take each piece and dip in beaten egg then roll really well into cornmeal mixture. Fry in hot frypan. An iron frypan is one of the best I've found to fry fish. Be sure to have enough shortening in frypan as fish requires quite a bit.

Source: Cy Littlebee's Guide to Cooking Fish & Game

### Fish Tacos

- Ingredients**
- 1-pound bass fillets, boneless and skinless (you can substitute other fish fillets)
  - 1-2 tablespoons olive oil
  - 2 tablespoons lime juice (juice from one small lime)
  - 1 1/2 teaspoons chili powder
  - 1/2 teaspoon cumin powder
  - 1/2 teaspoon dried oregano
  - 1/4 cup fresh cilantro, chopped
  - 1 small jalapeño, diced
  - 1/4 cup red onion, diced
  - salt and pepper to taste (dash each)
- Directions**

1. First, make a marinade by mixing the olive oil, lime juice, chili powder, cumin, oregano, cilantro, jalapeño, red onion, salt and pepper in a glass or ceramic dish large enough to hold the fish. Add the fish fillets and spoon marinade on top to coat the fish.

2. Marinate the fish for at least 30 minutes or up to a few hours, turning the fish over a few times.

3. Once the fish has marinated, preheat a sauté pan or fish grill pan over medium high heat. Add the fish fillets to the pan and cook for about 4 minutes and then flip and cook an additional 2 minutes until the fish is opaque and cooked through (flakes easily with a fork).

4. Remove from heat and coarsely chop the fish.

5. To serve, spoon about 1/2 cup of fish into the center of a warmed corn or flour tortilla, add a dollop of sour cream, some shredded lettuce or cabbage or slaw, and some salsa. Fold or wrap the tortilla so it can be picked up easily to eat. Garnish with lime wedges. Source: Cornell University Extension.

### Baked Catfish

- 1 2-lbs. catfish
- 1/2 tsp. garlic salt
- 1 medium onion (chopped)
- 3 tomatoes (chopped)
- 1/4 tsp. thyme
- 1/4 c. lemon juice
- 1 Tbs. melted butter
- 3 Tbs. bacon fat
- 1/8 tsp. pepper
- 1 green pepper (chopped)
- 1/2 c. water
- 1/4 c. bread crumbs
- 1 tsp. grated lemon rind

Dress and split catfish. Place in greased shallow baking dish. Sprinkle with garlic salt and pepper. Heat bacon fat in skillet. Add chopped onion, chopped pepper and tomatoes. Sauté for 5 minutes. Add thyme, lemon juice and water. Pour over fish. Combine bread crumbs, melted butter and lemon rind. Sprinkle over fish in casserole. Bake (uncovered) at 350 for 45 minutes. Remove to heated platter. Garnish with sprigs of parsley and lemon wedges. Serve with potato, cabbage slaw and cornbread.

Serves 4. Source: Cy Littlebee's Guide to Cooking Fish & Game

### Baked Trout

- Salt
  - 3 1/2 lbs. trout
  - 2 1/2 c. cooked tomatoes
  - 1 medium onion, chopped
  - 1 celery root, shaved
  - 1 Tbs. butter
  - 1 Tbs. flour
  - 1 egg yolk
  - 1/2 c. cream or evaporated milk
  - 1/2 tsp. Worcestershire sauce
- Salt fish well and let stand several hours. Place in a baking pan with

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Above: During a lunch break, Rep. Warren Davidson chatted with members of the Versailles High School FFA. He spoke to them about career opportunities in agriculture among other topics. (photo courtesy Versailles FFA)

# Representative addresses hot topics at annual Farm Forum

By Doug Graves  
Ohio Correspondent

VERSAILLES, Ohio - COVID-19 relief bill. Suicide in agriculture. Agriculture careers. Trade negotiations.

Warren Davidson, a Republican representing Ohio's 8th Congressional District, weighed in on these and other hot topics during his annual Farm Forum last week at Versailles High School. The event was hosted by Versailles FFA students, and featured speeches from Davidson, State Rep. Kyle Koehler, Darke County Commissioner Matt Aultman and Jack Irvin, senior director of state and national policy with the Ohio Farm Bureau Federation.

Davidson was met with many questions regarding the COVID-19 debate in Washington D.C., and how it relates to local farmers and ranchers. Davidson noted that the most recent coronavirus bill, known as The American Rescue Plan, is more than likely the final round of COVID-19 relief. He informed those in attendance that around \$24 billion, of \$30 billion planned for ag-related relief, has been distributed.

"I've talked to folks with row crops, and the relief money translates to approximately \$100 per acre, but that's not always the case uniformly with all the different programs," said Davidson, as he delved further into the other assistance programs.

Davidson then spoke on what he believes to be an unconstitutional, racially biased aspect of the new COVID-19 relief bill.

"One of the many things that isn't really COVID-19 related that's in this last bill that, to me is likely to be unconstitutional, is a racially biased loan forgiveness program," Davidson said. "If you're a non-white farmer or rancher, socially disadvantaged is what the references say, you could have your FSA or CCC loans forgiven plus 20 percent. So, 120 percent of your loan could be forgiven up to \$2.1 million."

Davidson acknowledged that the 8th District isn't the most diverse in the country, and encouraged those who are considered minority farmers or ranchers to take advantage of the program. He expects there will be continued challenges to this development.

The panel also discussed the increasing rate of suicide in the agriculture community, five times higher than non-farmers. U.S. farmers are saddled with near-record debt, declaring bankruptcy at rising rates and selling off their farms amid an uncertain future clouded by climate of tariffs and bailouts.

It was noted that more than 450 farmers killed themselves across nine

Midwestern states from 2014 to 2018, according to the data collected by USA Today Network and the Midwest Center for Investigative Reporting.

"Acts of despair are on the rise and it's not a good trend," Davidson said. "A lot of it goes for farmers in a similar way for veterans. You have so much of your identity tied up into what you are doing. And when that feels threatened, it really gets to the core of who you are and how you see yourself."

Davidson said it was important for neighbors to reach out to one another and to treat "mental hygiene" awareness in the same manner as physical hygiene.

David Hall, state director of Ohio's USDA Ohio Rural Development, took the podium, addressing the mental health issue and encouraged those in the agriculture sector that "it's OK to talk about this. We have to understand that we have to talk about this and have each other's back and point people to directions of help," Hall said.

Hall mentioned the Ohio Farm Bureau's "Got Your Back" mental health campaign that has partnered with his agency to offer help.

Versailles FFA students chimed in, many of them asking what the future of agriculture meant in terms of careers. The panel cited several promising avenues for those entering the ag field. An example they discussed was the pending ethane "cracker plant" in Belmont County. That plant converts ethane to polyethylene, which is a component of plastics, household chemicals, textiles and other products.

Davidson was heavily involved in trade negotiations this past year, a topic which he spoke on extensively during the forum.

"USMCA (United States-Mexico-Canadian Agreement) was a big win as we established new tariff rate quotas on dairy products in particular," Davidson said. "We got Canada to open their markets to imports from the U.S., which is big in our area for chicken and eggs."

Davidson added that imports are no longer tied to domestic production in Canada. He said the tie was previously limiting U.S. trade ability, and also hurting the Canadian agriculture market. He also added that negotiations in trade with China have benefited all, and that farmers have paid a big price throughout the process of fixing trade policies. He added that new trade policies have again leveled the playing field and opened up new export avenues for farmers across the country.

Koehler touched on state house bills leaning toward water quality and food security. He mentioned Ohio Gov. Mike

(Representative continued on page 13B)

LOCATION: Fountain County Highway Garage  
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- Case 180 Puma, 4WD, 2536 hours
- John Deere 7520, MFWD, 4208 hours
- John Deere 4055, OROPS, 5792 hours
- John Deere 5085E, MFWD, 416 hours
- Massey Ferguson 285 Loader, diesel
- 1982 Versatile 160 Bi-Directional Loader, diesel, 4WD, 3628 hours
- SAME Drago 120, 2WD
- Case International 5250 Maxxum, MFWD, 6469 hours
- Massey Ferguson 1080, diesel
- SAME Corsaro 70, 4WD
- Kubota M4500, diesel, 3470 hours

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- 2013 John Deere S660, 4WD, Greenstar 3, 1249 eng hrs, 818 sep hrs
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**APR 28<sup>th</sup>**  
10 AM



**Frances Currie**  
Cerro Gordo, IL

CLOSING BEGINS  
**APR 28<sup>th</sup>**  
10 AM



**Jeffrey Kennedy**  
Constantine, KY

CLOSING BEGINS  
**APR 28<sup>th</sup>**  
10 AM



**Steve Worland**  
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**MAY 5<sup>th</sup>**  
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# The hunt is on for edible wild mushrooms in the Midwest

Forty-two pounds of edible fungus  
In the wilderness a-growin'  
Saved the settlers from starvation.  
Helped the founding of this nation.  
From Homer Price by Robert McCloskey



**Above:** As spring approaches many people will take to the woods in the Midwest looking for morels.

URBANA, Ill. – Robert McCloskey wrote of the “edible fungus” in the wilderness that kept the early settlers from starvation in the fictional work Homer Price.

While this is part of a fictional story, it does underscore the popularity of wild mushrooms. Commercially available, buttons, portobellos, shiitakes, and other varieties just aren't enough for those who prefer foraging for wild mushrooms.

“Morel mushrooms definitely rule the spring, but there are quite a number of other edible mushrooms that can be found growing in Illinois and other Midwestern states, including pheasant backs, oysters, chicken-of-the woods, chanterelles, lion's mane, black trumpets, and my personal favorite, the hen-of-the-woods,” says Chris Evans, University of Illinois Extension forestry specialist.

While many people are avid foragers, some may not know what mushrooms are. Mushrooms are the fruiting bodies of larger organisms called fungi. Fungi typically grow as a dense mass of thread-like cells called mycelium.

“Think of a mushroom as the apple and the fungus as the tree,” Evans says. “If you ever pulled loose bark off of a rotting log, the white or light brown threads that fan out across the surface of the rotting wood is part of the mycelium and is the main body of the fungus.”

As mycelium collects energy and grows, it can produce mushrooms for reproduction, to form and release spores.

There are many different types of fungi and not all of them produce mushrooms. Even the mushroom-producing types of fungi vary greatly in their life histories.

“Some grow on living trees, others only on dead wood, still others are only found growing out of the soil,” says Evans. “One strange fungi, the lobster mushroom, actually is a parasitic fungus that attacks other fungi.”

Fungi are not like plants; they do not produce their own food through photosynthesis. Instead, fungi captures its energy from other sources. Many species are pathogenic, meaning they attack and feed off other organisms.

“The honey mushroom fruiting bodies are a select, edible mushroom,” Evans says. “but the fungus itself, Armillaria ostoyae, is actually a serious forest disease that infects trees, causing the roots and lower trunk to decay, potentially killing the tree.”

Saprophytic: Other fungal species are saprophytic, feeding on dead organic matter. Morels fall into this category. Some saprophytic mushrooms, such as chicken-of-the-woods and oyster mushrooms, grow on dead wood. Others grow on organic material in the soil.

Mutualists: A third group of mushrooms are mutualists. These species work with their host organism to the mutual benefit of both species.

“Many of our native plant species actually need the help of a fungus to grow,” Evans says. “These fungi will associate with the roots of plants to form structures called mycorrhizae that help uptake nutrients and transport water to the plant roots.”

Edible mycorrhizal mushrooms include chanterelles, which are some of the most common edible mushrooms growing in Illinois during the summer, and truffles which compete with morels as being the most famous wild mushrooms worldwide.

All of these wild edible mushrooms, along with the thousands of non-edible species, are incredibly important to the ecology of our native ecosystems.

Wood-rotting fungi help create dead snags and tree cavities that are critical habitat for many wildlife species. Saprophytic fungi help create rotting logs, which are home to many insects, salamanders, and even frog species.

These fungi also enrich the soil through the release of nutrients by decomposing organic matter. Mycorrhizal fungal in the soil are a vital link to the diversity of plant species in native forests.

“The next time you are out foraging for wild edible mushrooms, you can appreciate these wonderful organisms for more than just their taste,” Evans says.

## Representative

FROM PAGE 12B

DeWine's H2Ohio plan toward improving Ohio's water quality, adding that nearly \$40 million went to the Ohio Department of Agriculture and its nutrient management plans.

Koehler also spoke about the 2,000 acres of Ohio farmland certified to grow hemp, adding that the state government is still working on the details about how to successfully promote hemp as a commodity, and as a profitable plant to cultivate.

Irvin commented that food supply chain disruptions had a major impact on the agriculture and livestock industry during the pandemic, adding that during this time nearly a million fewer jobs and 250,000 fewer cows were processed as compared to previous years. “That disruption was not widely noticed and we credit that to the hard work of local farmers maintaining production to the best of their ability,” Irvin said.



**Above:** Warren Davidson, a Republican representing Ohio's 8th Congressional District, held his annual Farm Forum earlier this month at Versailles High School in Versailles, Ohio. (photo submitted)

# President of fertilizer, chemical group retires

By Tim Alexander  
Illinois Correspondent

BLOOMINGTON, Ill. - Jean Payne, a pioneer in the fertilizer and chemical industry, left her longtime post as president of the Illinois Fertilizer and Chemical Association (IFCA) on March 31. In a letter announcing her retirement, the first woman to lead the association said she is fulfilling a personal goal to join her husband, former Illinois Farm Bureau senior official Rae Payne, in retirement.

"As I step away after 23 years with IFCA - 17 as your president - there are many things to say and I wish I could hug each of you," Payne said. "To all the IFCA members, board members, industry colleagues and government friends - it was my privilege to know and work with all of you and my life is better for it. Rae and I plan to spend time at our lake home in the beautiful Northwoods of Wisconsin, see our families more and cherish life together. I am grateful to God and to all of you for the blessings in my life. Thank you for trusting me to work for you, and for the friendship and laughter along the way. IFCA will always be in my heart."

Payne pointed to the litany of accomplishments achieved under her leadership as evidence of the legacy she will leave behind. Those legislative and policy achievements include changes in federal and state statutes and regulations to ensure ag inputs receive an hours-of-service exemption for transportation, along with measures to curtail ammonia theft and eliminate the cost for license plates on fertilizer wagons and floaters.

In addition, IFCA worked to address water quality issues through their Keep it for the Crop program and passage of legislation to create the Illinois Nutrient Research and Education Council. Under Payne's leadership, IFCA created an alliance with the Asmark Institute that resulted in state of the art ammonia, applicator and grain safety training facilities existing on the same property as the IFCA offices.

"For every tangible IFCA accomplishment (there are many more), there were 10 times as many bad things we kept from happening be-

cause of our advocacy and reputation as a proactive, stewardship focused organization," Payne noted.

While Payne's retirement caught many in the agricultural community by surprise, her retirement had been something the IFCA Board of Directors had been anticipating since she shared her intentions as far back as a year ago. This is according to IFCA Chairman Tadgh Davis, who praised Payne for her 17 years of leadership.

"She has always had the forward-thinking vision to know what the organization and its members should be working on proactively. Whether it has been the 4R program, or working with agencies on regulatory issues and numerous safety and stewardship initiatives, she has always kept the IFCA a step ahead. Jean has led by example, with professionalism and with class," Davis said.

The IFCA board voted on Feb. 3 to make Kevin "KJ" Johnson interim president of the association for 12 months, beginning April 1. Johnson told Farm World that while he will have his work cut out for him in continuing Payne's work and sustaining IFCA achievements, he is eager to take on the challenges.

"Jean has been nothing but great to me," said Johnson, currently the IFCA director of government and industry relations. "Lately, she has shown me how to efficiently run an association in hard times (due to COVID-19 restrictions)."

Johnson had worked as public relations director for Illinois Congressman Tim Johnson until the former Republican 15th Congressional District representative announced his retirement in 2012. Payne contacted KJ soon after Johnson's retirement to offer him a job representing the IFCA in Springfield and beyond, beginning in 2013.

"We've had a good working relationship ever since my days with Congressman Johnson, and I felt like Jean is a trusted ally," Johnson said. "I'm excited and nervous at the same time, but I'm up to the challenge. There are big challenges ahead at retail with crop protection and fertilizers. I am going to do my best to keep this ship sailing straight ahead and we'll cross that bridge about removing the interim tag when we get there."

## Legend Alice Headley Chandler dies

LEXINGTON, Ky. (AP) — Alice Headley Chandler, who founded Mill Ridge Farm and built a Hall of Fame career as a breeder of champion racing thoroughbreds, has died. She was 95.

The farm stated in a release that Chandler died peacefully at home. Her son Headley, Mill Ridge's general manager, said his mother died of natural causes. Chandler, a Lexington native, held leadership roles with numerous thoroughbred organizations including the Breeders' Cup and nearby Keeneland racecourse, where she was on its board of directors for 23 years.

Chandler started Mill Ridge in 1962 after the death of her father Hal Price Headley, a fellow Hall of Famer who co-founded Keeneland and was its first president. Six years later she became the first American woman to breed an Epsom Derby champion when Sir Ivor won Britain's richest and most prestigious Triple Crown event.

Her achievements earned induction last year into the National

Museum of Racing and Hall of Fame as a Pillar of the Turf. In 2009, she received the Eclipse Award of Merit for contributions to the thoroughbred industry.

The farm's release stated that when Chandler stepped down from leading Mill Ridge in 2008, she said, "I have lived a blessed life, doing just what I want to do: associate with the finest horses, clients, friends, and an industry that I love."

Keeneland president and CEO Shannon Arvin said Chandler was an exceptional horsewoman and a tireless ambassador for the industry.

"Mrs. Chandler was a pioneer in our industry in many ways," Arvin said, "and her lifelong motto of 'Take care of the horse, and it will take care of you' represents an important part of her legacy both at Mill Ridge Farm and at Keeneland."

Survivors include her husband of 49 years, John Chandler; children Patricia, Mike, Reynolds and Headley; eight grandchildren and 14 great-grandchildren. Funeral arrangements are pending.

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### VESTAL AUCTION SERVICE

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812-756-8342 / 812-689-5917

The Sale Calendar lists dates, nearest town or location, owner, auctioneer and type of sale. The page numbers refer to ads in this week's paper. Listings without page numbers either had ads in previous issues, or will have ads in a future issue of Farm World. Auction listings are only made available to those who have placed a paid ad in Farm World. Ads will only be published two times in the Sale Calendar: The week of the actual auction and the week prior if the auction ad is received in time to include in the Sale Calendar.

APR 15 HUNTSVILLE, OHIO: Maier — Ben Higgins Realty & Auction. Equipment, trucks, other.. 4:30 pm

APR 16 BELLEVILLE, MICHIGAN: Sampson — Juckette & Neuhart. Collectibles, household.. 11 am EST

APR 16 ZANESVILLE, OHIO: Trennepohl Farms — PrimeTime AgriMarketing Network. Bull sale.. 7 pm

APR 17 FRENCH LICK, INDIANA: Land Auction — LandProz Brian Owens. 442 acres +/- in Orange and Dubois Counties, IN.. 10:30 am SEE AD ON PAGE 11B

APR 17 KOKOMO, INDIANA: Burt — Crume Ellis Auctioneers. Personal property.. 10 am SEE AD ON PAGE 11B

APR 17 SPRINGVILLE, INDIANA: 87th IBEP Bull Sale — IBEP, Purdue University. Performance tested bull sale.. 2 pm EDT

APR 17 BATTLE CREEK, MICHIGAN: Consignment — Brian Hasty Auction Co.. Farm equipment, lawn & garden, other.. 9:30 am SEE AD ON PAGE 11B

ON PAGE 10B

APR 17 BELLEVILLE, MICHIGAN: Sampson — Juckette & Neuhart. Collectibles, household.. 10 am EST

APR 17 HUDSONVILLE, MICHIGAN: Miedema MAI 11 — Miedema Auctioneering. Equipment, trucks, misc.. 10 am

APR 17 CONCORD, NORTH CAROLINA: Consignment — Bradley's Auction. Farm equipment, trailers, trucks, toys, other.. 10 am

APR 17 OK HARBOR, OHIO: Consignment — Batdorff Real Estate. Farm machinery.. 10 am

APR 18 OTTAWA LAKE, MICHIGAN: Keller — Juckette & Neuhart. Collectibles.. 11 am EST

APR 21 CRAWFORDSVILLE, INDIANA: Taylor Farm — Halderman Real Estate. Real estate.. 6:30 pm EST SEE AD ON PAGE 9B

APR 23 MARKLEVILLE, INDIANA: Consignment — Jeff Boone Auctions. Farm equipment, other.. 1 pm EST SEE AD ON PAGE 15B

APR 24 CONNERSVILLE, INDIANA: Consignment — Koons Auctions & Realty. Farm machinery, tools, equipment, other.. no time given SEE AD ON PAGE 10B

APR 24 MARKLEVILLE, INDIANA: Consignment — Jeff Boone Auctions. Farm equipment, other.. 9 am EST SEE AD ON PAGE 15B

APR 24 MILAN, INDIANA: Huxsoll — Vestal Auction Service. Equipment, personal property.. 10 am SEE AD ON PAGE 15B

APR 24 MILROY, INDIANA: Consignment — Milroy Amish School. Farm machinery, antiques, collectibles.. 9 am

APR 24 PITTSBORO, INDIANA: Wilson — Ted Everett Auction. Farm equipment.. 10 am SEE AD ON PAGE 10B

APR 24 VEEDERSBURG, INDIANA: Fountain Co. — Greg Clingan Auction & R.E.. Equipment, trucks.. 11 am EST SEE AD ON PAGE 12B

APR 24 MARNE, MICHIGAN: Bolthouse MAI 16 — Miedema Auctioneering. Farm equipment.. 10 am SEE AD ON PAGE 12B

APR 24 WINCHESTER, OHIO: Baxla Tractor — Hess Auction. Consignment auction.. 10 am

MAY 1 MT. STERLING, KENTUCKY: Consignment — Clays 3 Warehouse. Farm machinery and other.. 9 am SEE AD ON PAGE 10B

MAY 13 OSTRANDER, OHIO: Grener Farms, LLC — Wilson National Real Estate. Real estate.. 6 pm SEE AD ON PAGE 11B

## Were here to help!

### Farm World

#### Serving Indiana, Ohio, Kentucky, Illinois & Michigan

## HUGE 2 DAY CONSIGNMENT AUCTION

### Friday, April 23rd @ 1 PM EST & Saturday, April 24th @ 9 AM EST

On-site at our facility: Mort's Auction Field 4377 E. US Hwy 36 Markleville, IN 46056

**Live Onsite & Online Auction**

**CURRENTLY ACCEPTING CONSIGNMENTS THRU TUESDAY, APRIL 20TH @ 6 PM**

**OVER 100 VEHICLES, TRUCKS, CARS, SUV'S & TRAILERS EXPECTED**

**LARGE 3 RING AUCTION!**

- New Holland BR780 Round Baler
- Genie 745-22 Boom Lift
- 6 Ft. Bobcat Bucket
- Boss Skid-Steer Trip-Edge Box Plow (8 Ft)
- SkidPro 120 Skidsteer V Blade (10 Ft)
- Boss Smart Shield 8 Ft. 2 In. Poly-V XT Plow
- Boss 9 Ft. 2 In. Poly-V DXT Plow
- 2006 Chevrolet C4500 Dump Truck
- Snowex Hitch Mount Salt Spreader
- Alis Chalmers 170
- Gravely Wagon on John Deere Running Gear
- Gravely Wagon
- John Deere 8300 Drill
- 78 In. Rock Bucket
- Alis Chalmers 3-16 Slotted Snap Coupler Plow
- Alis Chalmers Snap Coupler Sickle Bar Mower
- Universal Rear Wheel Weight
- 1985 Massey-Harris Pacer
- 84" Skidsteer Bucket
- 1985 Kalamazoo Mfg K-45 Truck
- Woods BS250 12 Ft. Rotary Mower
- 2015 Isuzu NPR Crew Cab HD
- 6 Row Corn Head Reel
- Corn Meters off JD 7000 Planter
- Boss VBX 8000 Sprayer
- Boss VBX 8000 Salt Spreader
- DMI 12 Ft. Cutter-Chump II
- Grippe Bucket (35 In.) For Skidsteer
- Woods RD7200 Finish Mower 6 Ft.
- Land Pride RCR 1860 5 Ft. Rotary Mower
- Land Pride 6 Ft. RB1572 Grader Blade
- Land Pride 6 Ft. FDR1672 Finish Mower
- 5 Ft. BushHog Rotary Mower
- John Deere 5010 Tractor
- John Deere 18 75 VanBuren 10 Ft. Grain Drill
- Case IH Steiger 9350 4WD Tractor
- Kubota BS250 Tractor w/8 In. Mid-Mount Mower
- EndRossa G21 2 Basket Tedder
- John Deere 610 Dolly Rake
- John Deere 3010 Tractor
- Avco New Idea 353 Manure Spreader
- Landscape Block & Pavers
- Pin-Behind Sprayer 10 Ft. Booms
- Case 252 Roller
- DeeZee 108 Gal Fuel Tank w/Fill-rite Pump
- Blitton S61 25 Ft. Culti/Mulcher
- Tube-Line TL550 Auto Balewrappwr
- New Idea 3639 Manure Spreader
- 30 Ft. Kant Discinator Finishing Tool
- John Deere 535 Round Baler
- Billy Goat Debris Vac
- Skid of ProSteer Mega Melt
- Mop Mat ProSteer Partial Sid
- 2005 Isuzu NPR Dump Bed Truck
- Art's Way Big-Lite D470 Wagon
- John Deere 5 Ft. Grader Blade
- (2) Titan Mutt Trac-41x4-0-20
- Wheels & Tires
- 2003 Chevrolet Silverado K 2500 HD
- 5 Ft. King Kutter Rotary Mower
- SDI Orchard Sprayer
- Case 553 Super M Series 2 Backhoe
- Hutchinson Mayrath 61 Ft Auger
- Glencoe H Shank Disc Ripper (14 Ft)
- w/Spike Harrow
- 3 Pt Bale Spgr
- 10' Field Cultivator
- International 720 5 Bottom Plow
- 40 Ft. Hay Elevator
- John Deere 225 Platform
- 2002 John Deere 9590 Combine
- John Deere 693 6 Row Corn Head
- John Deere 225 Platform
- Unverferth HT 25 Head Cart
- Killbros Seed Wagon w/Auger
- Poly Snouts off John Deere 1290
- Farmco 20 Ft. Feed Wagon
- Lely Ground Driven Broadcast Spreader
- Wood Chipper
- Holder C 2 42 w/ Plow, Dump Bed, Broom & Spreader
- Westfield 31 Ft. Auger
- DR 5 Ft Row Behind Field & Finish Mower
- Concrete Barriers 6 Ft x 2 Ft x 2 Ft
- New Holland Super Hay Liner 68 Baler
- 10 Ft. Grain Head off EB45
- Gravely Mower on John Deere Gear
- Case 580 Super L Backhoe
- Boss 8 Ft. Poly Snow Plow w/ Controller
- 5 Ft Rotary Mower
- New Idea 5409 Disc Mower (9 Ft & 3 Pt)
- 5 Ft Farm Star FM-560 Finish Mower
- 22 Ft Round Bale Trailer
- Vermeer 620 Self Feed Chipper
- 1985 John Deere 850 Tractor
- Massey Harris 3 Row Corn Picker
- Sweep Auger for Grain Bin
- Badger Manure Spreader BN 3242
- 2016 MultiDrip Inc. WTS 525 Gal. Water Trailer
- 2019 BobCat MT85 Mini Track Loader
- 2018 Sun-Trac 16 Ft
- 31821RHST 16 Ft w/Ramp Trail
- 2019 Chevrolet Isuzu LCF 3500
- 2007 Ford F-350 XL Super Duty
- Flat Bed
- John Deere 33 Hay Elevator
- 3 Pt Wood Carrier
- 3 Pt Dirt Pan
- 60 In. Skidsteer Bucket
- 66 In. Rock Bucket
- New Holland 145 Manure Spreader
- John Deere 1518 Batwing Mower
- 20' Auger
- Massey-Harris 2 Row Corn Picker
- Brillion 11 Ft. 9 Shank Disc Chisel w/Harrow
- Wolstein Bush Pilot FX110-ORA
- Skidder Winch
- Case International 14 Chisel
- Bale Spgr
- Quick Attach Hitch
- The EE Myers 3 Pt Sprayer
- New Idea AGCO Model 5409 Disc Mower
- Massey Ferguson 26 Hay Rake (3 Pt)
- UT 5000 15 Ft Grain Drill
- Electric Clark LHM115 Type E Forklift
- Forks off Clark Forklift (43 In.)
- Toro Model 68027 Forward Plate Compactor
- L.B. White Model 304 Propane Heater
- Case 580 Series 2 Super L Backhoe
- Cat 299D Skidsteer
- Komatsu PCS0MR-2 Excavator
- International 9 Ft. Sickle Bar Mower
- 3 Pt Bale Mower
- John Deere Dolly Rake
- Jesco Model 211731 1 YD Dump Hopper
- 4 VY HAN-D Bale Cutty
- Cat 257 Skidsteer
- Woods XT160 5 Ft Rotary Mower
- Retari 1068 86 Ft. Auger
- 40 Ft Auger PTO Drive
- Saddle for tank
- 16 John Deere Herbicide Boxes
- Ford Tractor
- 2014 Palanis Ranger Crew Diesel
- MC Farm Equipment 15' Stalk Chopper
- New Idea Model 2124 Manure Spreader
- International 540 4 Row 14 In. Plow
- International 470 12t. Disc
- International 658 6 row 30in Planter
- John Deere 4 Section Rotary Hoe
- Row Unit Test Stand
- Gravely Wagon on New Holland Gear
- Bradford 10 Ton Wagon w/ Picklin 231 Gravelly Box
- J & M 250 -7 Gravely Box
- Koray Gravely Box
- John Deere 2000 12 Row Planter
- John Deere 990 (32 Ft) Field Cultivator
- Homemade Bale Carrier (30 Ft)
- John Deere 3020
- Morris BM180 Rotary Mower
- Skidsteer Broom 7 Ft.
- Case 580 L Super 2 Backhoe
- Loader Bucket (60 In.)
- Loader Bucket w/ Teeth (60 In.)
- New Holland 145 Manure Spreader
- Gehl MX 100 Feed Grinder
- John Deere 7000 Planter
- Case 1063 6 Row Corn Head
- Case International 1640 Axial-Flow Combine
- 12 Ft Disc
- Outback S-Lite Guidance System Complete
- Dickey-John Mini GAC Plus Grain Moisture Analyzer
- Gehl 125 Feed Grinder
- John Deere running gear
- John Deere Pull Type Field Cultivator
- 3pt. Field Cultivator
- John Deere 245 Square Baler
- 3pt. Boom w/ Cox Hay Grabber
- Bray 3 pt. Field Cultivator
- M-M Grass Seeder
- International 540 14' 4 bottom plow
- Top Air 18 Ft Seed Elevator
- Genie 36 Ft. Personnel Lift w/ Outriggers
- Sioux Cattle Chute
- 3 Backhoe Bucket
- Wheel Weights
- 2003 Chevrolet Silverado K2500 HD LT Truck
- 1967 Harley Davidson 67XL Sportster
- 1983 Dodge Rampage G72 Truck
- 2005 Bp Dog Mastiff Motorcycle
- 2013 Chrysler 200 Limited
- 1998 Dodge Dakota SLT
- 2005 Legacy 613V Enclosed Trailer
- 16 Ft Chrome Trailer
- 1975 Trail Eze Semi Trailer 28 Ft w/6 Ft Dove + Ra
- 2014 Palanis Ranger Crew Diesel
- 19787 Triumph Bonneville 750 Motorcycle
- 1947 Ford Truck
- Aluminum Fatted
- Wheel weights
- Utility Trailer (4ft. X 7 Ft.)
- Limbo Chipper
- Disc Chipper 3374
- Yamaha Grizzly
- Huskee 35 Ton Log Splitter
- Ford Uni-Body Truck
- Jackdon Dbl Wheel Wheelbarrow
- Acad Dbl Wheel Wheelbarrow
- 2004 GMC Sierra 2500 Crew Cab
- County Compact Roller ZT Mower
- Mercury Meteor Custom Motorhome RV
- 2009 Ford F350 Super Duty
- 2005 Ford F550 Lariat Super Duty Crew Cab
- Exmark Tuff Tractor 60 In. Propane Stand-On
- Exmark Lazer 2 60 In. Propane ZT Mower
- Exmark Lazer 2 60 In. Propane ZT Mower
- Exmark Vantage 60 In. Propane Stand-On
- Exmark Vantage 60 In. Propane Stand-On
- 2012 Golden UT-16S Trailer
- 2004 Chevrolet K2500HD Silverado
- 2006 Big Tex 7 Ft x 18 Ft Trailer
- 2006 Big Tex 7 Ft x 18 Ft Trailer
- Cub Cadet 106
- John Deere 165 Tann tractor w/ Bagger
- 2000 Just Trailers Unk Trailer
- 2008 Ford F350 Truck
- 2008 Exiss Elite 2 Horse Slant
- Turk RS7200 Ride on Spread & Spray
- 1986 17 Ft. Pacific Liner Prowler 3000
- 1960 17 Ft. Pacific Liner Prowler 3000
- 1960's Truck Bed Trailer
- 1970 GMC Truck
- PJ 620 DF 18 Ft + 2 Ft Dove w/Ramps
- 1991 International 4700 T444E 4x2 Flatbed
- 1987 International 1200 D Pick-Up Truck
- 2009 Polaris Ranger 800 EFI XP
- Ford Uni-Body
- 1987 International 1200 D Pick-Up Truck
- Plymouth Suburban
- 1963 Chevrolet Corvair Monza 900 Sedan
- Ariens EZR 1742 42 In. ZT Mower
- Exmark 60 In Propane ZT Mower
- John Deere 4 Ft X 8 Ft
- John Deere Sabre 42 In. Riding Craftsman Front Tire 24 In. Tiller
- 2019 Moto Guzzi V9 Bobber Sport Motorcycle
- 19787 Triumph Bonneville 750 Motorcycle
- 1947 Ford Truck
- Aluminum Fatted
- Wheel weights
- Utility Trailer (4ft. X 7 Ft.)
- Limbo Chipper
- Disc Chipper 3374
- Yamaha Grizzly
- Huskee 35 Ton Log Splitter
- Ford Uni-Body Truck
- Jackdon Dbl Wheel Wheelbarrow
- Acad Dbl Wheel Wheelbarrow
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- Exmark Lazer 2 60 In. Propane ZT Mower
- Exmark Lazer 2 60 In. Propane ZT Mower
- Exmark Vantage 60 In. Propane Stand-On
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- 2012 Golden UT-16S Trailer
- 2004 Chevrolet K2500HD Silverado
- 2006 Big Tex 7 Ft x 18 Ft Trailer
- 2006 Big Tex 7 Ft x 18 Ft Trailer
- Cub Cadet 106
- John Deere 165 Tann tractor w/ Bagger
- 2000 Just Trailers Unk Trailer
- Continental Cargo 16 Ft + 3 Ft Tandem Trailer
- Huber Machinery Division Roller
- 2016 Massey Ferguson 1758 Tractor w/ DL 135 Ldr. 85 Orig. Hrs., 1 Owner
- Minneapolis Moline 445 w/Loader
- Minneapolis Moline ZT Tractor
- Minneapolis Moline Big Model 500 w/ Loader
- 1949 Minneapolis Moline ZA
- 710 Super Skytrak Minneapolis Moline Lift
- Moline 2 Row Planter Minneapolis Moline Engine
- Minneapolis Moline Sickle Bar Mower
- (2) Seats fit 400 Minneapolis Moline R Cab Tractor
- 7 Ft BushHog 5007 Grader Blade 3 Pt
- John Deere Drill
- Massey Ferguson 41 Mounted Sickle Bar Mower
- Scout Backhoe Attachment
- Rock Rake
- 3/4 In Universal Model U2 Cutter/Grinder w/Collets
- Enco Model 385047 Bandsaw Blade Welder
- 14 In. Buffalo Wood Cutting Band Saw
- 6 In Buffalo Jointer Model: BPJ-6
- Scroll Saw
- Craftsman Carbide Bench Grinder
- Tool Cutter Grinder
- Delta Tool Co. Lathe
- 12 Spd HD Guardian Drill Press
- DeWalt Radial Arm Saw 3 In. Cut
- Chang Iron Edger/Shaper
- Central Machinery Belt Disk Sander 6 In. x 9 In.
- Toledo Scale
- Airmat Dust Arrestor Model A
- Ingersoll-Rand 80 Gal. Air Compressor
- Turn-Pro Model 01712041 7in. Metal Band Saw
- Neary Technologies Model 110 & 180 Reel Grinder
- Anvil
- Parts Bin & Tool Boxes
- Millermatic 135 115V Wire Welder
- Fuel Tanks
- Lawn & Garden
- Exmark Lazer 2 72 In. Zero Turn Mower
- John Deere 2243 Greens Mower
- Ryan Thatcher
- Turco Mole-R-Matic Top Dresser
- Massey Ferguson 1655 Riding Mower (No Deck)
- New Holland LS55 Riding Mower (No Deck)
- Fimco Pull-Behind Sprayer
- Lawn Roller (Pull-type)
- Club Car Electric Golf Cart
- Ez-Go Electric Golf Cart
- Jacobsen 810 Express Gas Golf Cart w/ Dump Bed

## Alvin "Rex" Mercer Estate AUCTION

### SATURDAY, MAY 15TH AT 10:00 AM EST

1264 W 950 S. PENDLETON, IN 46064

**ON-SITE AUCTION**

**LIVE WEBCAST "70+ SELECT LOTS"**

### MOLINE TRACTORS, MASSEY 1758 LOADER TRACTOR, TOOLS, MACHINIST & WOODWORKING EQUIP, GOLF CARTS & MORE!

Rex was a well known and respected member of his community, an expert of everything Moline, and a well experienced machinist and mechanic. The following 70+ items will be sold to the highest bidder Onsite and Online beginning at 12 noon EST during the live auction. Household, Collectibles, and Much More will be sold Onsite to the highest bidder and prior to the 70+ Select Lots. Go to [JeffBooneAuctions.com](http://JeffBooneAuctions.com) for details, photos and information.

#### Minneapolis Moline & Additional Tractors/Equipment

- Minneapolis Moline Catalogs & Manuals
- 2016 Massey Ferguson 1758 Tractor w/ DL 135 Ldr. 85 Orig. Hrs., 1 Owner
- Minneapolis Moline 445 w/Loader
- Minneapolis Moline ZT Tractor
- Minneapolis Moline Big Model 500 w/ Loader
- 1949 Minneapolis Moline ZA
- 710 Super Skytrak Minneapolis Moline Lift
- Moline 2 Row Planter Minneapolis Moline Engine
- Minneapolis Moline Sickle Bar Mower
- (2) Seats fit 400 Minneapolis Moline R Cab Tractor
- 7 Ft BushHog 5007 Grader Blade 3 Pt
- John Deere Drill
- Massey Ferguson 41 Mounted Sickle Bar Mower
- Scout Backhoe Attachment
- Rock Rake

#### Shop/Woodworking & Machinist Tools

- Enco Mill (Bridgeport Copy) 9 x 42 Table
- Enco Lathe 12 In. x 36 In.
- Doall 3 Phase Grinder
- #50 Ideal Bed Knife Grinder
- Pedestal Grinder
- Doall Model LHM Metal Band Saw, Roller
- Shopcraft 10 In. Commercial Table Saw
- Pro-Tech 13 In. Portable Planer
- Pittsburgh 2 ton Foldable Engine Crane
- Granite Surface Place w/Stand
- Height Gauge
- Collet Holder for Lathe
- Sine Plate
- Rotary Mill Table
- 50 Ton Air Over Hydraulic Shop Press

**Details/Images and Online Bidding: Go to [JeffBooneAuctions.com](http://JeffBooneAuctions.com)**

Office: (765) 779-4000 | Jeff Boone Cell: (765) 621-9116 | [JeffBooneAuctions@gmail.com](mailto:JeffBooneAuctions@gmail.com)

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260-982-0238



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**Tim Holmes**  
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Churubusco, IN  
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**Brent Ruckman**  
Auctioneer & R.E. Agent  
Larwill, IN  
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Fort Wayne, IN  
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**Jason Conley**  
Auctioneer  
Warsaw, IN  
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**Brian Evans**  
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**Dustin Dillon**  
Auctioneer  
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574-265-9215



**Tiffany Reimer**  
Realtor & Office Man.  
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**80 Acres**  
Offered in 5 Tracts  
**SOLD!**  
Sat. Dec. 12 10 am  
Open House: December 12, 10-2:00pm  
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**93 ACRES**  
6 Tracts  
**Cropland Potential**  
**SOLD!**  
Tue. Dec. 12 6:30 pm  
Auction: One Knight of Columbus: 395 S Huntington St, Wabash, IN  
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**Quality Cropland**  
**190 Acres**  
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• 700+ Free Stalls  
• Double 16 Parlor

Huge potential as a stand alone dairy or satellite heifer operation!

## 60 Acres

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BIDS DUE **APRIL 23**

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Just 3 miles northwest of Warren. Quick access to I-69 and State Road 5.



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Think **METZGER**



Online Only Machine Shop  
**AUCTION**

Sun. April 18

Lots start closing @ 6 pm  
1604 East St., N. Man., IN

Machinist Tools, Lathes, Mills, Tooling, Comm. Wood Chipper



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**3 Online Firearms Auctions**

April 17, 19 & 28

Firearms • Ammunition • Reloading Supplies  
Firearms Accessories & More!



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Upcoming  
**Auctions**

AC31300015

- Apr. 14 - N. Manchester, IN - Online Coin Auction - 6 pm  
Online Only - Rolex Watch, Coins, Currency, Silver & More!
- Apr. 15 - Howe, IN - Online Only Auction - 6 pm  
Antiques, Advertising, Primitives, Guns, Ammo, Lanterns, Toys & More!
- Apr. 17 - Silver Lake, IN - Absolute- No Reserve Real Estate Auction - 6 PM  
Lakefront Home on Silver Lake - Great Flip Prospect!
- Apr. 17 - Silver Lake, IN - Absolute- No Reserve Real Estate Auction - 6:30 PM  
Home at Hill Lake - Great Flip Prospect or Get-away Spot!
- Apr. 17 - N. Manchester, IN - Quality Gun Collection! - 10 am  
Online Only - Guns, Ammo, Reloading Equipment, Gun Accessories
- Apr. 17 - Warsaw, IN - Home Improvement Auction - 6 pm  
Online Only - New Merchandise, Tools, Building Supplies & More!
- Apr. 18 - Plymouth, IN - Machine Shop Liquidation - 6 pm  
Online Only - Lathe, Milling Machine, Tooling, Comm. Wood Chipper
- Apr. 19 - Winona Lake, IN - Online Real Estate Auction - 6 PM  
Online Only - Project Home in Winona Lake - Great Flip or Remodel!
- Apr. 19 - N. Manchester, IN - Single Owner Gun Collection - 6 pm  
Online Only - Guns, Ammo, Scopes, Accessories, Knives & Advertising!
- Apr. 21 - N. Manchester, IN - Quality Antique Auction - 6 pm  
Antique Books, Advertising, Primitives, Apothecary, Soda Bottles & More!
- Apr. 22 - South Bend, IN - Online Real Estate Auction - 6 PM  
Online Only - Investment Property - Great Rental, Flip or Remodel
- Apr. 23 - Warren, IN - Dairy Facility on 60 Acres - 5 pm  
Sealed Bid Auction - 700 Cow Dairy Facility Situated on 60 Acres
- Apr. 24 - N. Manchester, IN - Whiting Online Auction - 10 AM  
Online Only - 3 Bedroom home on Large Lot with Garage  
Antiques, Glassware, Collectibles, Firearms, Tools, Furniture & More!
- Apr. 24 - Pierceton, IN - Antiques, Glassware, Primitives - 6 pm  
Online Only - New Merchandise Auction - 6 pm
- May 1 - Warsaw, IN - Home Improvement Auction - 6 pm  
Online Only - New Merchandise, Tools, Building Supplies & More!

### Auctioneers & Realtors...

- |  |  |
|--|--|
| Chad Metzger, N. Man., IN, 260-982-0238      | Larry Evans, Warsaw, IN, 260-982-0238          |
| Rod Metzger, Ossian, IN, 260-982-0238        | Tim Holmes, Churubusco, IN, 260-580-5473       |
| Brent Ruckman, Larwill, IN, 260-609-2155     | Tim Pitts, Fort Wayne, IN, 317-714-0432        |
| Jason Conley, Warsaw, IN, 574-527-2247       | Rainelle Shockome, Col. City, IN, 260-341-4801 |
| Gary Spangle, Claypool, IN, 574-551-1768     | Dustin Dillon, Warsaw, IN, 574-265-9215        |
| Michael Gentry, LaCrosse, IN, 219-754-2237   | Tiffany Reimer, Realtor, 260-982-0238          |
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