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# Barn meets broadband

*High-speed access to the Internet improves today's farm operations*

By Mavis Fodness

When Rock County's high speed Internet project is completed, its rural residents will have a more reliable, convenient and innovative tool at their disposal.

The \$14 million project is funded through a combination of local entities that formed the Rock County Broadband Alliance more than a year ago. The Alliance is a wholly owned subsidiary of Alliance Communications in Garretson, South Dakota, who is overseeing the current construction project.

Alliance already provides fiber-to-the-premises service to portions of western Rock County. This year's project will bring the service to the county's eastern half.

A year ago, Rock County was on the winning end of the state's first broadband development grant, receiving \$5 mil-

lion, the largest grant amount given out in Minnesota. The grant, along with monies from Rock County and Alliance, will expand service to 1,350 premises that have not been able to get Internet service or are underserved by current providers.

The Federal government defines high-speed Internet as having at least 10-megabytes-per-second download and 6-megabytes-per-second upload.

Lowell and Diane Jauret in Mound Township wrote a letter

*"Whether they're researching prices or tracking weather, fiber optics will allow them to get it done faster.*

*Since our Internet doesn't have data limits, heavy Internet users will save money as well."*

— Amy Ahlers, Alliance Communications

of support for the county's successful broadband grant. They are one of the county's underserved residents.

For the past 40 years, Lowell has bred and raised show cattle.

Being able to load video and pictures of available stock has become the norm in reaching today's cattle buyers. The task using a wireless connection, however, proves difficult or unsuccessful from their farm just two miles north from the city of Luverne.

"The slow speed of our Internet makes it hard to watch these videos, and we did not even attempt to upload them from our home, as we know it would take a long time," the letter read.

In an interview earlier this month, Lowell said he hopes a fiber-optic connection to his home will provide a more reliable and efficient service than his current wireless service. He also hopes the new service will help him monitor the cameras in his barn better.

"I am hoping when we get a stronger connection it will help pick up the signal better," he said. "When it is working good, we can see (the cattle) pretty good."

Reliability is what Sherwood Cattle Company in Kanaranzi Township in southeastern Rock County has been experiencing from the satellite provider they are currently using.

The current high speed allows Jim and Cody Sherwood's show cattle to be seen all over the United States because uploading pictures and videos are easily done from their homes.

"In the show circuit, people travel hundreds and thousands of miles. It (the Internet) makes it easy to find show cattle," Cody said.

Changes occurred in the marketing breeding stock business about 15 years ago when

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stockmen began developing their own webpages and bidding by phone, Cody said. Now video feeds, live auctions and live bidding sites are becoming the norm. Having a reliable connection to the Internet is a must.

A good Internet connection also helps the Sherwoods register purebred stock with breed associations more efficiently and quickly.

"Some data we are able to get back the same day," Sherwood said.

Cattle and crop producer Grant Binford lives in Vienna Township northeast of Luverne. He said broadband Internet would be more of a convenience for his family's farming operation.

Currently at his home the downloading of large files are completed late at night or early in the morning.

More often, Binford travels into Luverne to download material.

Issues like those experienced by the Binfords and the Jauerts were very similar customer complaints back in the 1990s, said Amy Ahlers, an Alliance Communications spokesperson.

"Whether they're researching prices or tracking weather, fiber optics will allow them to get it done faster," she said. "Since our Internet doesn't have data limits, heavy Internet users will save money as well."

For Luverne cattle producer Mike Feikema his biggest struggle is Internet access, and a good service will allow better use of technology in his family's operations in Mound Township.

He said their current satellite connection becomes weaker depending on weather conditions. They have given up using video during monthly conferences with accountants and marketers because of the lack of bandwidth currently.

A fiber connection to the farm office would save time and expand the use of technology on the farm, Feikema said.

Specifically, a good connection could allow the electronic tracking of feed and medications to the 8,000 finishers that go through the Feikema feedlot annually. The Internet would save paper as well as provide instant access to the information at later times.

"Everything would be a lot faster," Feikema said.

Currently his brother Shawn monitors grain drying on the farm from his Smartphone. Instead of physically checking the dryer late at night, Shawn can look at his phone to see if the equipment is still operating and adjust the temperature if necessary.

"If we had Wi-Fi constantly, our life would become easier," Feikema said.



**The \$14 million fiber-to-the home project is funded through a combination of local entities that formed the Rock County Broadband Alliance more than a year ago. The Alliance is a wholly owned subsidiary of Alliance Communications in Garretson, South Dakota, which is overseeing the current construction project. Alliance already provides fiber-to-the-premises service to portions of western Rock County. This year's project will bring the service to the county's eastern half.**



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*Peter Bakken and his son, Eli Bakken, of Blac-X Farms in western Rock County said they appreciated the message delivered by Dr. Gary Sides at the Rock-Nobles Cattlemen's Banquet in February. He said more farmers need to take the lead on communicating with the public about how food gets from the farm to the table and how American farmers produce the safest and most abundant food in the world.*



*"I wish more people could come out here and see what goes on with a farming operation, and they'd understand how well our cattle are treated. We want them to be comfortable and healthy; the success of our operation depends on their well-being."*

*— Peter Bakken, Blac-X Farms*

Lori Sorenson photos/0331 bakken cattle



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# Defending modern agriculture in a Facebook culture

Beef nutritionist and scientist encourages farmers to combat media and celebrity lies with accurate information

How can farmers and ranchers utilize online social networks to share the agriculture story? In a fast-paced, Internet-based world, is there a way to connect consumers to producers?

"There is no culture without agriculture," said Zoetis beef nutritionist Dr. Gary Sides, who spoke at the Rock-Nobles Cattlemen's Banquet Feb. 1 in Luverne.

He encouraged farmers to stay on top of environmental and animal rights activities and observed that despite the complex information, "simple lies are more palatable than complicated truths."

In other words, he said it's easier to believe lies delivered in the form of a short news brief than it is to seek out truth from science or the farmers who are actually raising the nation's food.

"In today's world, we have a culture that has probably never been more connected to data, and yet are more knowledge-deprived than any other generation in history," Sides said.

Sides said people get their information on food and food safety from celebrities and activists, and the real story of what is happening with food production can get lost or distorted.

## Technology

Looking at American agriculture, Sides questioned where



*"In today's world, we have a culture that has probably never been more connected to data, and yet are more knowledge-deprived than any other generation in history."*

— Dr. Gary Sides, beef nutritionist

producers or consumers would be without modern agricultural technology.

During the subsistence farming era, it took 19 farmers to feed 20 people. Now with modern agriculture, one farmer feeds more than 150.

Thanks to technology, average life expectancy increased from 47 in 1900 to nearly 80 today.

Yet, Sides said he's baffled that society pushes for new technology in every industry but shuns it in agriculture.

If technology had been frozen in 1955, the United States would need an additional 183 million head of cattle to maintain its current beef production and an additional 450 million acres of grass. That's a pasture the size of Texas, Colorado, Kansas, New Mexico and Oklahoma, said Sides.

"If we still farmed and

ranching like 1960, the globe would need an additional 15 to 20 million square miles of farm and ranch land to produce what we do today," he said.

If global agriculture were totally organic, it could only feed 4.5 billion people today, of a population that is 7 billion and growing, he said.

"Prior to the 1940s, everything we ate was organic, and our life expectancy was about 50 years. Today we can expect to live to be 81," Sides said.

"If we are not permitted to use technology to increase our efficiencies in food production, we would starve. There are 7 billion people on this planet, and we are responsible for feeding these folks."

He said this increase in production could not have happened without technology.

"Without modern agriculture, none of that is possible.

Look at the opportunities provided to our children with modern agriculture. The sky is the limit," Sides said.

Historically families spent a good share of their time producing food. "With non-modern agriculture, life was brutal," Sides said. "If nothing else, modern agriculture frees women and children from this life."

In non-developed countries, women are still beasts of burden and 25,000 to 30,000 children die each day from starvation and malnutrition.

## Doing more with less

Sides said technology has played a big role in sustainability.

"Compared to 1950, if we farmed the same way we did back then today, we would only be able to feed half of the people in the United States," he

said.

"We provide 25 percent of the world's beef with just 10 percent of the cattle. Of the land they graze, 85 percent is not usable for crop production. We also provide habitat for wildlife."

Sides said that pastures maintained by cattle ranchers provide habitat for 75 percent of America's wildlife.

Beef cattle consume just 5 percent of the world's total grain production, and they account for less than 3 percent of the world's global greenhouse gas emissions.

"We can't feed the world, but our technology can feed the world," he said. "We have to double our food supply in 40 years on the same acreage. So our options are to take more land from nature, or produce more per acre and per animal. Because we are so efficient, we can have nature spaces and forests, and aren't killing as many wild animals."

He added, "We can only do these things with technology."

Advances in technology and the use of pharmaceuticals, embraced by producers of 98 percent of all U.S. beef, have improved production, reproduction, carcass quality, animal health and producer profitability. Those advances have reduced land requirements,

Facebook farming/See page 10

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# Roll on, 18-wheelers

## Jaycox Implement, Luverne, expands truck and trailer service to keep commodities moving

By Lori Sorenson

Trucks and semitrailers play a major role in the local ag economy, whether they're hauling commodities to market or feed and fertilizer to the farm.

When these 18-wheelers need repairs or service, they often turn to Jaycox Truck and Trailer Service, Luverne, where there's lot space, large service bays and certified technicians.

"It's kind of a pocket market that we've captured here," said Mark Ommen, manager of Jaycox Implement, Luverne.

In order to accommodate increased truck and trailer business, Jaycox is acquiring the Luverne Body Shop lot and shop building to the north.

The lot was originally designed for Truckers' Territory more than 20 years ago, with ample parking space, an oversized shop and an unload cement pad out back to accommodate 20 semitrailers.

After Luverne Body Shop purchased the space 25 years ago, owners Kevin and Mary Aaker continued leasing the south part of the building for truck service work and the lot out back for parking.

Now the Aakers are expand-



Lori Sorenson photos/0331 ag tab jaycox

Dustin Donth works on a truck for Jaycox Truck and Trailer Service. At right is an overview of the truck bay at the Luverne Body Shop property, recently acquired by Jaycox.

ing and relocating their body shop business to a new shop north of Papik Motors, and they've sold

their current property to Jaycox.

The property transfer is set for midsummer, and Jaycox has already taken over the south quarter of the body shop building for service and repair work.

"It's freed up a lot of space for ag equipment, and at least now it's safer for both employees and customers coming and going," Ommen said.

"We were always jockeying equipment around, so we're gaining efficiencies, too, and we'll possibly add staff as a result."

He said the body shop building will be remodeled over the summer and will be fully operational — with some office and retail parts space — by this fall.

A temporary "Jaycox Truck and Trailer Service" sign has



been placed on Gabrielson Drive directing truckers to the lot west of the body shop.

Ommen said independent over-the-road truckers and ag businesses that use trucks and semitrailers have come to rely on Jaycox Truck and Trailer Service for all brands of equipment.

"It's not just trucking companies, but it's a lot of ag customers who use trucks and trailers," Ommen said.

"We have technicians who

specialize in working on these types of motors, and we have 30 to 40 customers per day for a wide variety of work — anywhere from full service and overhauls to a basic repair."

He said many customers come from over an hour away, and many are return customers.

"They keep coming back, because our guys are so thorough," Ommen said.

Jaycox trucks/See page 14



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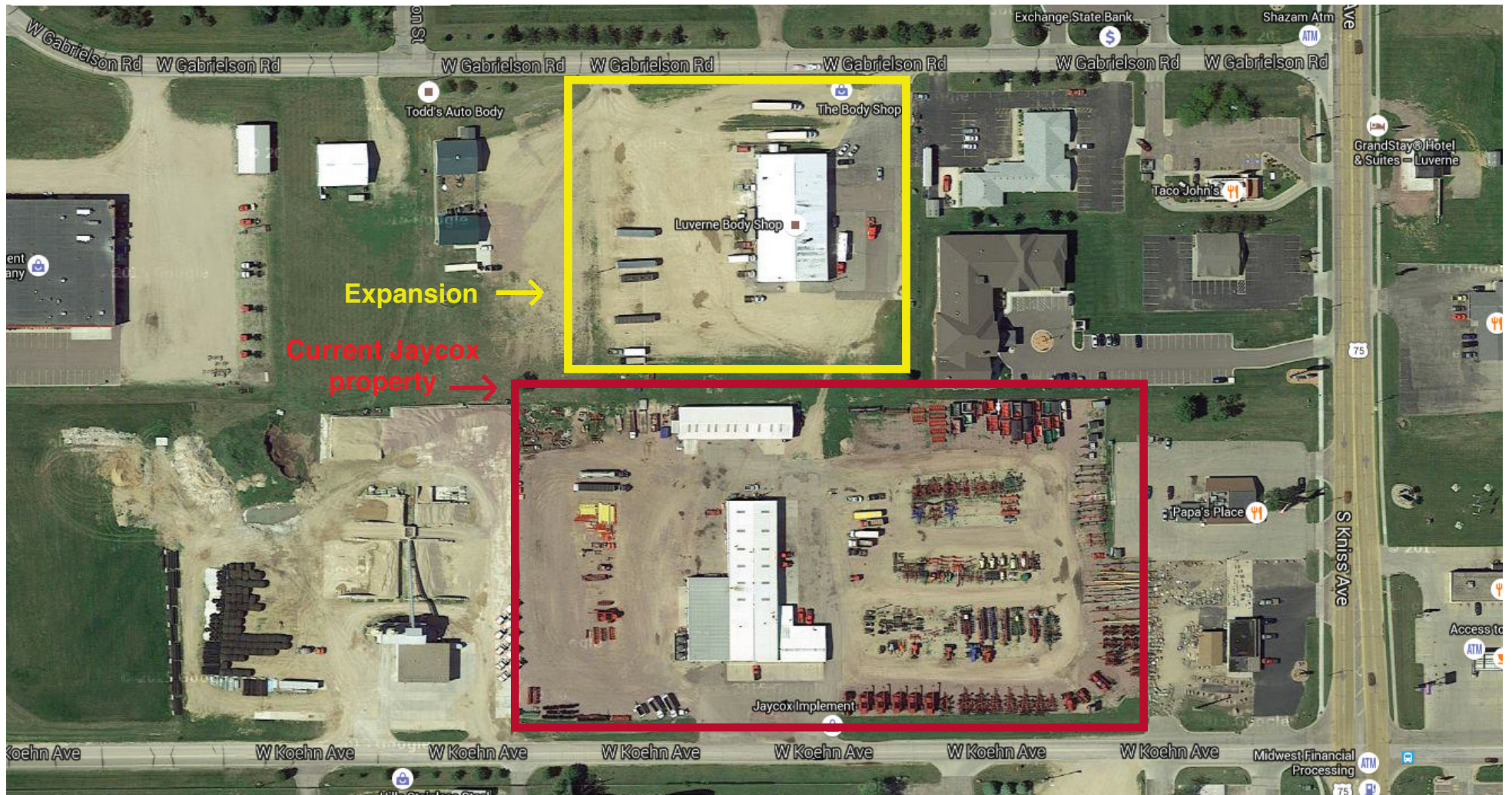
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The existing Jaycox property is outlined in red on this Google map. The yellow piece is the Luverne Body Shop property Jaycox is acquiring to create more space for its truck servicing business. Kevin and Mary Aaker of Luverne Body Shop are expanding and relocating their business at a new site north of Papik Motors.

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# Captivating!

## Rock County 4-H'er turns moth-trapping experience into award-winning project



A black cutworm has a broad light band running down its back and unequal-sized paired black bumps (tubercles) on each segment. Pictured below is a black cutworm moth.



**By Mavis Fodness**

A Rock County teen manned a front line defense last year against a pest that is detrimental to crop yields.

Dylan Mente, currently a sophomore at Luverne High School, spent eight weeks monitoring two traps for the University of Minnesota Black Cutworm Trapping Network.

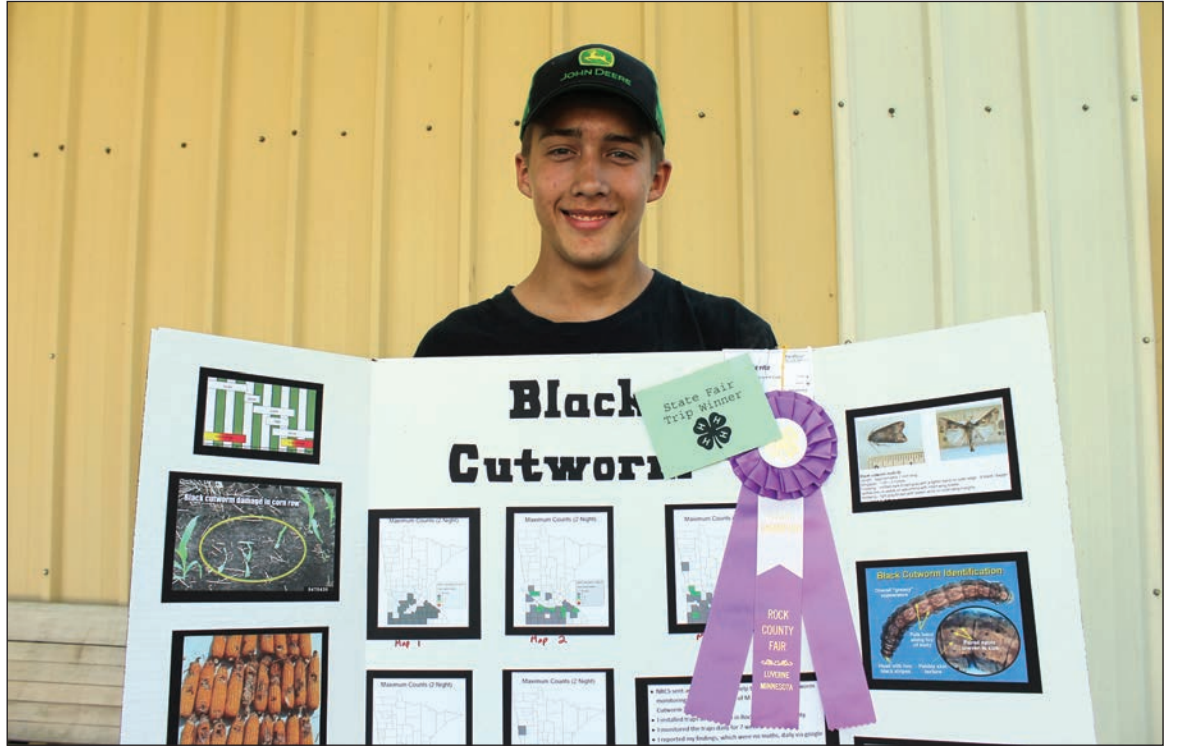
He was among about 50 other volunteers within a 38-county area who were on the lookout for the black cutworm moth last spring.

The network may be activated again this spring.

"I would do it again," said the son of Dave and Stacy Mente, rural Adrian.

Mente's job and that of the other volunteers was to report any captured moths to U of M researchers.

Bruce Potter works with the Southwestern Research and Outreach Center in Lambert as



Mavis Fodness photo/Ag Tab Black Cutworm Dylan Mente

Rock County 4-H'er Dylan Mente spent eight weeks last year monitoring traps for the University of Minnesota Black Cutworm Trapping Network. He turned his work into an award-winning project.

an integrated pest management specialist. He was one of the organizers for the trapping network. Black cutworms attack corn,

sugar beets and other crops at the emergence stage, often killing the plant or reducing the crops' yield potential.

The network was established in 2013 after the area experienced significant crop damage from the cutworms the previous two years.

"It's a sporadic pest because it is migratory and based on weather patterns," he said.

Volunteers place milk-carton sized traps near fields beginning in late March and monitor them daily through May.

Mente said his daily monitoring didn't capture any black cutworm moths.

"It was a good thing," he said. "But I wanted to see what they looked like."

No moths meant no eggs laid in the newly planted fields.

Each spring, black cutworm moths travel on low-level jet streams, according to the outreach center's website.

The male and female moths arrive from south Texas to Minnesota in a matter of days.

Their flight is mostly passive with moths carried along by the winds until they "drop out" of the jet stream. This usually occurs when the moths encounter cold air or rain from a thunderstorm.

Where they drop out is where the moths will begin mating.

Catching eight or more moths over a two-night period means significant egg laying is taking place and larvae will begin to emerge.

Based on when the moths were caught, researchers can predict when larvae hatch and begin seeking food. Targeted is corn shorter than the five- or sixth-leaf stage.

"The trap network will determine when damage will happen," Potter said.

He said, for example, if moths were present on April 15 and a cornfield was tilled and planted before that day, the corn plants would be too big when the larvae hatch occurs.

Crops planted after April 15 may need to be treated with insecticide.

"Scouting is key," Potter said. For Mente, his family didn't

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Submitted photo

Milk-carton sized traps contain a pheromone strip to attract male black cutworm moths. A clear sticky strip is on the bottom of the trap to capture insects.

have to scout for black cutworm damage because no moths were trapped.

His work didn't go to waste, however.

Mente documented his experience as a plant and soil science project he entered in last

year's Rock County Fair.

His project earned a champion ribbon locally and a trip to the Minnesota State Fair. There other exhibitors in the project gave Menté a blue ribbon.

"It was an interesting learning experience," he said.

## Keeping the farm in the family: *How much life insurance do I need?*

**By Shirley Top Kozlowski Insurance Agency**

Managing a successful farm takes time, strategy and a little luck. Farmers do a remarkable job running their business. Have you thought about passing the farm onto the next generation? Do you have dependents to protect? Do you have savings? Will debt need to be repaid? How will the survivor deal with income replacement?

Do you have life insurance? If you have dependents to protect and don't have savings, you definitely need life insurance.

What type of life insurance should you get? If you want to protect your family against the destruction of the farm business and/or estate taxes after your death, universal life has to be considered. But if your main concern is to protect your family against the loss of income and debt repayment, term life will work for you.

How much insurance do you need? How much debt do you have? How much do you spend each month? You might think \$500,000 in term coverage is sufficient. After all, it is a lot of money. Investing \$500,000 earning 5 percent interest would earn \$25,000 of yearly investment income. If your family needs more than \$25,000 each year, you need more coverage. If you need \$40,000 a year, \$800,000 is what your survivors need to get through until they don't need your income.

A 2008 survey of Minnesota farms showed that approximately 90 percent of farmers did not have a



*No one plans to die. Death sometimes happens unexpectedly. Life insurance can play a critical role in preparing for the smooth transfer of a family farm and providing family needs and debt repayment.*

plan to transfer the family farm. Without planning, you increase your chances of becoming one of the following statistics: 70 percent of first-generation operations do not successfully transition to the next generation; 90 percent of second-generation do not make it to the third generation; and 96 percent of third-generation do not survive to the fourth generation.

So let's imagine for a moment you are a farmer with three children. One of the children is involved in the farming operation. Is the solution to give each child an equal share of the operation?

This seems fair, but will the child involved in the farming operation be able to keep the operation going? Will he have the money to buy out off-farm siblings? Do you consider purchasing a second-to-die life insurance policy to help out the son involved in the farming operation? OR do you create a "separate but equal" solution by passing the farm to family

members who are involved in the farming operation and purchasing a life insurance policy on your life naming the off-farm family members as beneficiary of the policy.

It is very important to discuss plans with children and explain reasoning behind the choices you have made.

A child is more likely to accept the decision coming directly from you when all of the children understand that you have taken thoughtful care to provide for them in equal ways. Your children could receive equal inheritances without having to liquidate assets or sell land.

As always, planning is the answer. No one plans to die. Death sometimes happens unexpectedly. Life insurance can play a critical role in preparing for the smooth transfer of a family farm and providing family needs and debt repayment, thus avoiding problems when someone dies and "keeping the farm in the family."



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## Defending farming in a Facebook culture/continued from page 5

*“Do you want to eat sick cattle or chicken or pigs? We use antibiotics very judiciously. We follow withdrawals and labels. All these things are prescribed by a veterinarian.”*

manure, greenhouse gases and nitrogen.

“In the last 50 years, we’ve doubled beef production, and dairy has quadrupled production,” he said.

U.S. beef production has doubled in the last 50 years, while using fewer natural resources — less land, water and reduced green house gas emissions.

### Why are we so afraid of antibiotics?

One of the biggest reasons for the increase in human life expectancy is the discovery of penicillin, which was developed in 1942 and has helped save millions of people.

“Now we have a generation that is terrified of antibiotics,” Sides said.

The use of antibiotics in livestock has kept animals

healthier and made food safer to eat.

“Tetracycline was developed in 1950 and was discovered when a University of Missouri scientist was taking soil samples and was able to isolate the bacteria that created tetracycline,” Sides said.

“It’s a naturally occurring antibiotic. Penicillin comes from mold. We’ve used tetracycline for about 60 years and guess what? It still works. So if there was a huge resistance, why is it still working?”

He said the issue of antibiotic use in livestock is sometimes misconstrued by the media.

“Do you want to eat sick cattle or chicken or pigs? We use antibiotics very judiciously. We follow withdrawals and labels. All these things are prescribed by a veterinarian,” Dr. Sides said.

### More meat, less sugar

“Food has never been safe to eat,” Sides said. “There is a risk involved when you eat food. But what’s the alternative? There’s a risk in driving a car or taking a plane too.”

He then gave several examples of different foodborne illnesses that have occurred over the years, and some of the causes for those outbreaks.

“In 1913 there was a transfer of typhoid that killed thousands of people in New York City. Shortly after that, milk would be required to be pasteurized,” he said.

“Raw milk, which represents less than one percent of all the milk produced in the United States, accounts for more than 90 percent of the food borne illnesses that result from milk. It’s not safe. There are many bacteria that are killed by pasteurization, and this has saved millions of lives.”

Sides said a human’s chance of dying from a foodborne illness is .00001 percent, and most of these cases are preventable.

“If I cook the food, don’t eat raw meat, drink pasteurized milk, keep meat and vegetables separate and wash my hands, this can all help prevent illnesses,” he said. “Even if there is E.coli on hamburger, if you cook it right there shouldn’t be an issue.” He also pointed the “pink slime” (finely textured beef) scare as overrated.

“How many people have ever gotten sick from eating finely textured lean beef? Zero.

How many people have died? Zero,” he said.

“So what is finely textured lean beef? It’s not connective tissue, but 90 percent lean beef. What has happened to the price of hamburger in the grocery store now? It’s gone up at least 50 cents per pound. Using finely textured lean beef saves the protein equivalent of 1.5 million cattle, or an average of 15 pounds per head.”

Sides said people who are concerned about food safety should carefully consider other diet choices, such as sugar and refined carbohydrates.

He said the average American consumes 150 pounds of sugar each year and studies show that refined carbohydrates like white flour, sugar and high fructose corn syrup are major risk factors for high cholesterol, heart problems and diabetes.

By contrast, saturated fat found in meat does not cause heart disease. Seventy percent of the fatty acids in lean beef are monounsaturated, the same heart-healthy type found in olive oil. In other words, he said, eat as much meat as you like, and avoid anything sweet.

*Gary Sides, PhD, is the beef and feedlot nutritionist with Zoetis (formerly Pfizer Animal Health) and has extensive beef industry nutrition experience. Additionally, he was a research scientist with Utah State University and has a doctorate in ruminant physiology and nutrition from the University of Wyoming.*

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# Survivor's story

## Beaver Creek farmer recalls close call in grain bin; urges fellow producers to be careful on the farm

By Lori Sorenson

For National Grain Bin Safety Awareness Day, there's no better spokesperson than Everett Vande Voort.

In the spring of 2010 Vande Voort, now 80, found himself buried up to his neck in corn with a spinning auger eating away at the side of his boot.

"I didn't think I was going to get out alive that day," he said.

"God must have something for me to do yet that he wasn't going to let me go."

### 'It sucked me in'

Vande Voort was emptying 2009 corn from a bin on his Beaver Creek farm when the grain stopped moving. "The corn was wet, and it wasn't flowing very well," he said.

So he climbed into the bin with a long stick to get the corn moving again. "I poked it, and corn started going," he recalled. "But it sucked me in."

Grain had coned downward toward the middle where it was 4 feet deep and the high sides were flowing in around him.

"I hung on to the stirator," Vande Voort said, "but that corn really has a lot of suction once it starts moving."

In terms of weight, grain up to the knees applies more than 600 pounds of pressure. Grain waist deep is 1,200 pounds of pressure.

According to University of



Lori Sorenson photo/Ag Tab vande voort grain bin safety

Beaver Creek farmer Everett Vande Voort admits he's lucky to be alive today after surviving a close call with a grain bin accident. "I was in corn up to my neck, and my boot sat on the auger," he said. "If it had gotten through my boot, I would have started bleeding and probably bled to death."

Minnesota Extension educators, grain bin drownings — when a person is pulled under the grain's surface and suffocates — can happen in a matter of seconds.

As grain is removed from a bin, it can bridge and form a cavity under the crusted surface, and there's little chance of survival for someone who falls through the

crust into flowing grain.

Vande Voort experienced this nightmare firsthand that fateful spring day when he found himself clinging to life by a thread.

"I was in corn up to my neck, and my boot sat on the auger," he said.

As the blades spun away at his boot, the rubber sole heated up, burning a hole in the side of his foot that would later require skin grafts to heal.

"If it had gotten through my boot, I would have started bleeding and probably bled to death," Vande Voort said.

Meanwhile, his banker, David O'Hara, Sioux Falls, drove on the yard for a 1:30 appointment. When Vande Voort was a no-show, O'Hara and Jeanette Vande Voort went looking for him.

After discovering him in the bin, they called 911, but by this time, Vande Voort had been trapped for over an hour and was losing consciousness.

Fire and rescue crews showed up and supplied him with an oxygen mask, but removing him from the bin proved to be an exercise of trial and error.

### 'I heard them sawing holes in the bin and I'd see light come in'

They put handcuffs on his wrists and tied him to a towrope that they pulled on to get him from the grain.

When that didn't work, they lowered a half-barrel around him to keep corn from closing in

Survivor's story/See page 13

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## TRACTOR - TRACKS

(LP) John Deere 9630T, 11,1710 hrs, 36" Tracks, 5 remotes, PTO, green star ready, 26 frt wghts (914233) .....\$227,500.00  
 (LP) John Deere 9630T, 11,2620 hrs, 36" Tracks, 6 remotes, PTO, green star ready, 26 frt wghts (914232).....\$225,000.00  
 (LP) Cat Challenger CH 55, 12563 hrs, PTO, PS, 24" Tracks .....coming in  
 (W) CIH Steiger 530, Quad, '06, 3384 hrs, lux cab, 30" tracks, 4 remotes, guidance ready (Z6F100796) .....\$179,500.00

## LEASE TRACTORS

(L) NEW CIH Maxxum 115 Multicontroller, '15, 150 hrs, 540/1000, LEDs, loader ready, 16 x 16 trans (ZFEE01944) .....call for pricing  
 (W) NEW CIH Maxxum 115, '15, 192 hrs, 540/1000 PTO, LEDs, 16 x 16 trans (ZFEE01686) new warranty + PPP.....call for pricing

(L) NEW CIH Maxxum 135 Multicontroller, '15, 150 hrs, loader ready, 540/1000, 16 x 16 trans, susp cab, LEDs (ZFEE01704) .....call for pricing  
 (L) NEW CIH Puma 185 CVT, '15, 150 hrs, loader ready, 540/1000, susp cab, hi flow, 480/80R46s, new warranty (ZEES01805) .....call for pricing  
 (W) CIH Puma 185 CVT, '15, 190 hrs, loader ready, 540/1000, susp cab, hi flow, 520/85s, susp MFD, 4 hyd, 40kph .....call for pricing

(W) CIH Puma 200 CVT, '15, 95 hrs, loader ready, 540/1000, susp cab, hi flow, 520/85s, 4 hyd, 40kph .....call for pricing  
 (W) CIH Puma 220 CVT, '15, 150 hrs, loader ready, 540/1000, susp cab, hi flow, 520/85s, 4 hyd, 40kph .....call for pricing  
 (W) CIH Puma 220 CVT, '15, 175 hrs, loader ready, 540/1000, susp cab, hi flow, 520/85s, susp MFD, full guidance, 50kph, 4 hyd .....call for pricing

(W) CIH Magnum 220, '14, 1643 hrs, deluxe perf cab, Pro700, 19 spd PS, radar, 4 hyd, hi flow, suspended MFD, 480/80R46s, weights (ZERH07251) .....\$95,000.00  
 (W) CIH Magnum 220, '14, 1586 hrs, deluxe perf cab, Pro700, 19 spd PS, radar, 4 hyd, hi flow, suspended MFD, 480/80R46s, weights (ZERH07048) .....\$104,900.00  
 (W) CIH Magnum 220, '14, 1614 hrs, deluxe perf cab, Pro700, 19 spd PS, radar, 4 hyd, hi flow, suspended MFD, 480/80R46s, weights (ZERH07064) .....\$104,900.00  
 (L) NEW '14 Magnum 250, '14, lux perf cab, HIDs, 540/1000, 480/80R50s .....call for pricing

(LP) NEW '14 Magnum 280, '14, lux perf cab, HIDs, hi flow, 540/1000, 480/80R50s .....call for pricing  
 (LP) CIH Magnum 310, '15, PS, susp, cab, high cap pump, dual PTO, 380/80R38, 480/80R50, guidance ready, (ZFRF01035) .....\$210,000.00

(W) CIH Steiger 370, '15, 400 hours, lux perf cab, HIDs, high flow, 1000 PTO, full guidance, 480/80R50's (ZEF303352) .....\$249,500.00  
 (L) NEW '16 Steiger 420, lux perf cab, LEDs, 3pt, PTO, hi flow, 480/80R50s .....call for pricing  
 (L) NEW '15 Steiger 540 QuadTrac, lux perf cab, HIDs, full guidance, hi flow, 1000 PTO, 30" tracks .....call for pricing  
 (W) NEW '16 Steiger 580 QuadTrac, lux perf cab, LEDs, full guidance, hi flow, 6 remotes, 1000 PTO, 30" tracks .....call for pricing

(W) CIH 7240 Combine, '15, 219s/308e, RT, ext wear, CH, Pro700, dlx cab, 4WD, 520/85R42s GY, HIDs, diff lock, hyd grain tank .....\$269,000.00

## TRACTOR - 4WD

(L) CIH 9170, '90, 5800 hrs, PS, bare back, 4 hyd, 650/75R32 - 45% (ZEF300365) .....\$37,750.00  
 (L) CIH 9170, '89, 9,000 Hours, 3 Point, 4 Hyd, 20.8X38, Raven Guidance system .....\$36,000.00  
 (L) CIH 9270, '91, 4890 hrs, PS, 4 Hyd, SHARP (JCB0026794) .....\$52,800.00

(W) CIH 9270, '93, 4150 hrs, PS, 4 Hyd, 20.8X42 triples-85%, EZ-Steer, EZ-Guide 500 monitor (JCB0030565) .....\$59,500.00  
 (L) IH 6588 (Snoopy); 7500 Hrs, TA & Clutch OK; Injection pump done; 18.4X38 Tires .....\$16,200.00  
 (W) Steiger Puma 1000, '86, 5600 hrs, PTO, 3pt, 12 spd PS, 18.4 x 38 Firestones (60%), rebuilt PTO, new AC unit .....\$34,500.00  
 (LP) John Deere 7520, 3pt, PTO .....\$14,000.00  
 (LP) John Deere 8760, 1991, 4780 hrs, 3 remotes, bareback, (003000) .....\$48,750.00

(W) CIH Steiger 350, '13, 449 hrs, lux cab, afs ready, pto, 18.4x50 (ZCF133594) .....\$199,500.00  
 (LP) CIH Steiger 385, '09, Lux Cab, 1270 hrs, 4 remotes, 3pt, Guid. Nav. II, Pro600, 262 rec. 600/70/R42 Firestones (Z9F113952) .....\$160,000.00  
 (LP) CIH STX 380, 07, dlx. cab, 3100 hrs, 4 remotes, ez-pilot guidance (Z6F105106) .....\$109,500.00  
 (W) CIH Steiger 370, '15, 400 hours, lux perf cab, HIDs, high flow, 1000 PTO, full guidance, 480/80R50's (ZEF303352) .....\$249,500.00

## TRACTOR - MFD

(L) CIH Magnum 210, '10, 1770 hrs, 540/1000, 3PT, dux cab, ISO, susp frnt axle, PS, rear wghts, 4 hyd, 480/80R46 R1 duals, NAV II, Pro600, NO RCVR (Z9RH06249) .....\$119,500.00  
 (W) CIH Magnum 220, '14, 1625 hrs, dlx perf cab, Pro700, hi flow, susp MFD, 480/80R46s, weights, 19spd.....\$104,900.00  
 (L) CIH Magnum 315, '11, Lux Cab, 735 hrs, AFS ready, F&R duals, frnt weights, 1000 PTO (ZBRD02070) .....\$156,000.00  
 (L) CIH Maxxum 125, '09, 2050 Hours, Loader Ready, 16X16 PS, Ins Seat, 540/1000, MFD Fenders, 14.9X28, 18.4X38 .....\$56,500.00  
 (LP) CIH Magnum 310, '15, PS, susp, cab, high cap pump, dual PTO, 380/80R38, 480/80R50, guidance ready, (ZFRF01035) .....coming in

(W) CIH Puma 170 PS, '12, 650 hrs, L755 loader w/ grapple, HIDs, susp MFD, 50kph, susp cab, 540/1000, hi flow, trailer brake, loaded! .....\$114,900.00  
 (LP) CIH 7140 MFD, '89, 4 speed rev, dual PTO .....coming in  
 (L) CIH MX240, '01, 5335 Hours, 18.4X46(60%), 380X34(90%), 4 hyd, 1 3/4" 1000 PTO, Front & Rear Weights, SHARP! (JJA0111426) .....\$65,000.00  
 (W) Hesston 566DT, 4926 hrs, L330 Loader, MFD .....\$8,950.00  
 (W) Kubota B2920HSD, '09, 191 hrs, 29 hp, 4wd, 3pt, pto .....\$12,750.00

(L) Kubota B3200HSD, '09, 250 Hours, with loader and bucket, turf tires .....\$15,300.00  
 (W) NH TL90A Deluxe, '08, Rops, MFD, 552 hrs, 540/1000, like new .....\$29,900.00  
 (LP) NH TC33D, 2001, MFD, 1600 hrs, NH 7308 loader, soft cab, 72" Y755 Buhler mower .....\$14,950.00  
 (LP) John Deere 4850, MFD, 1988, 6850 hrs, 18.4x42 rear duals, frt fenders, 20 frt weights .....coming in  
 (L) McCormick MTX 110, '02, MFD, Cab, 4400 Hours, Semi PowerShift, 3 Hyd Remote .....\$39,750.00

## TRACTOR - 2WD

(LP) Farmall C .....\$1,650.00  
 (LP) Case IH Farmall 75 A w/L-540 Loader, 185 hrs (1236208) .....\$26,000.00  
 (LP) White 2-155 2wd 8630 hrs .....coming in  
 (W) Case IH 7130, 2wd, 6950 hrs, big 1000 PTO, PS, good rear rubber - singles .....\$34,500.00

(W) Bobcat S185, '04, 2825 hrs, cab/heat, aux hyd, std controls, HD Bobcat tires .....\$20,900.00  
 (LP) Bobcat S205, '06, 4200 hrs, cab/heat, bobtach, 12x16.5 tires, no bucket (530512307) .....\$19,950.00  
 (LP) Bobcat MT 52 Walk Behind Skid Steer, 36" Bucket, 1014 hrs 2009 (A3WR12543) ..... just in  
 (L) Bobcat S250; 2008, Powertach, Radio, Cab w/AC/Heat; 1340 hrs .....\$28,500.00  
 (W) Bobcat 3650 UTV, '14, approx 200 hrs, cab/AC, diesel, work lights, radio, with 62" blower and 69" blade .....\$29,500.00  
 (W) Bobcat S590, '15, approx 200 hrs, A71 pkg, cab/AC, ACS controls, 2 spd, cold weather pkg, engine warranty (AR9R13815) .....\$39,500.00  
 (L) Bobcat S650, '12, 4450 hrs, A51, Cab AC/Heat, pwr tach, 2-Speed, solid tires, radio (A3NV15168) .....\$26,400.00  
 (W) Bobcat S750, '13, 420 hrs, A91, hi-flo, ACS, air ride, 2 spd, weights, camera, blinkers .....\$46,900.00  
 (W) Bobcat S770, '15, 750 hrs, A51, ACS, self leveling, 2 spd, power bobtach, cab w/ AC, Kubota 92hp diesel, air ride seat (ATF213080) .....\$45,900.00  
 (W) Bobcat S850, '11, 420 hrs, A91, Cab/AC, hi-flow, SJC, air ride seat, 2 spd, radio (ACS711166) .....\$49,500.00  
 (W) Bobcat S850, '11, 432 hrs, A91, Cab/AC, hi-flow, SJC, air ride seat, 2 spd, radio (ACS711163) .....\$49,500.00  
 (W) Bobcat S850, '11, 2401 hrs, A71, Cab/AC, SJC controls, 2 spd, power bobtach, good rubber, attachment control .....\$39,500.00

(L) CASE 1840, '93, 3400 Hours, Open Station, Good Tires, Good Service History .....\$11,500.00  
 (L) Case 445, '05, 4354 hrs, side windows, aux hyd, susp seat (N5M401296) .....\$21,600.00  
 (LP) Case TR270, '14, 340 hrs, cab/heat/ac, radio, 2 sp, quick tach (NEM482396) .....\$49,500.00  
 (W) CAT 236B, '12, 2600 hrs, cab w/ AC, power tach, 2 speed, pilot controls, bucket .....\$23,900.00  
 (W) Case 580SN, '14, 298 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, flipover stabilizer pads, 82" comb bkt (705777) .....\$82,500.00  
 (W) Case 580SN, '14, 108 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, flipover stab pads, 82" comb bucket (705779) .....\$82,500.00  
 (W) Case 580SN, '14, 1248 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, buckets, Stanley HS8000 Compactor .....\$72,500.00  
 (W) Case 580 Super L Backhoe, 4020 hrs, cab/ac, 2 stick manual controls, 24" bkt ext, extendahoe (190565) .....\$37,500.00

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(W) Bobcat S185, '04, 2825 hrs, cab/heat, aux hyd, std controls, HD Bobcat tires .....\$20,900.00  
 (LP) Bobcat S205, '06, 4200 hrs, cab/heat, bobtach, 12x16.5 tires, no bucket (530512307) .....\$19,950.00  
 (LP) Bobcat MT 52 Walk Behind Skid Steer, 36" Bucket, 1014 hrs 2009 (A3WR12543) ..... just in  
 (L) Bobcat S250; 2008, Powertach, Radio, Cab w/AC/Heat; 1340 hrs .....\$28,500.00  
 (W) Bobcat 3650 UTV, '14, approx 200 hrs, cab/AC, diesel, work lights, radio, with 62" blower and 69" blade .....\$29,500.00  
 (W) Bobcat S590, '15, approx 200 hrs, A71 pkg, cab/AC, ACS controls, 2 spd, cold weather pkg, engine warranty (AR9R13815) .....\$39,500.00  
 (L) Bobcat S650, '12, 4450 hrs, A51, Cab AC/Heat, pwr tach, 2-Speed, solid tires, radio (A3NV15168) .....\$26,400.00  
 (W) Bobcat S750, '13, 420 hrs, A91, hi-flo, ACS, air ride, 2 spd, weights, camera, blinkers .....\$46,900.00  
 (W) Bobcat S770, '15, 750 hrs, A51, ACS, self leveling, 2 spd, power bobtach, cab w/ AC, Kubota 92hp diesel, air ride seat (ATF213080) .....\$45,900.00  
 (W) Bobcat S850, '11, 420 hrs, A91, Cab/AC, hi-flow, SJC, air ride seat, 2 spd, radio (ACS711166) .....\$49,500.00  
 (W) Bobcat S850, '11, 432 hrs, A91, Cab/AC, hi-flow, SJC, air ride seat, 2 spd, radio (ACS711163) .....\$49,500.00  
 (W) Bobcat S850, '11, 2401 hrs, A71, Cab/AC, SJC controls, 2 spd, power bobtach, good rubber, attachment control .....\$39,500.00

(L) CASE 1840, '93, 3400 Hours, Open Station, Good Tires, Good Service History .....\$11,500.00  
 (L) Case 445, '05, 4354 hrs, side windows, aux hyd, susp seat (N5M401296) .....\$21,600.00  
 (LP) Case TR270, '14, 340 hrs, cab/heat/ac, radio, 2 sp, quick tach (NEM482396) .....\$49,500.00  
 (W) CAT 236B, '12, 2600 hrs, cab w/ AC, power tach, 2 speed, pilot controls, bucket .....\$23,900.00  
 (W) Case 580SN, '14, 298 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, flipover stabilizer pads, 82" comb bkt (705777) .....\$82,500.00  
 (W) Case 580SN, '14, 108 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, flipover stab pads, 82" comb bucket (705779) .....\$82,500.00  
 (W) Case 580SN, '14, 1248 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, buckets, Stanley HS8000 Compactor .....\$72,500.00  
 (W) Case 580 Super L Backhoe, 4020 hrs, cab/ac, 2 stick manual controls, 24" bkt ext, extendahoe (190565) .....\$37,500.00

## TRACTOR - 4WD

(L) CIH 9170, '90, 5800 hrs, PS, bare back, 4 hyd, 650/75R32 - 45% (ZEF300365) .....\$37,750.00  
 (L) CIH 9170, '89, 9,000 Hours, 3 Point, 4 Hyd, 20.8X38, Raven Guidance system .....\$36,000.00  
 (L) CIH 9270, '91, 4890 hrs, PS, 4 Hyd, SHARP (JCB0026794) .....\$52,800.00

(W) CIH 9270, '93, 4150 hrs, PS, 4 Hyd, 20.8X42 triples-85%, EZ-Steer, EZ-Guide 500 monitor (JCB0030565) .....\$59,500.00  
 (L) IH 6588 (Snoopy); 7500 Hrs, TA & Clutch OK; Injection pump done; 18.4X38 Tires .....\$16,200.00  
 (W) Steiger Puma 1000, '86, 5600 hrs, PTO, 3pt, 12 spd PS, 18.4 x 38 Firestones (60%), rebuilt PTO, new AC unit .....\$34,500.00  
 (LP) John Deere 7520, 3pt, PTO .....\$14,000.00  
 (LP) John Deere 8760, 1991, 4780 hrs, 3 remotes, bareback, (003000) .....\$48,750.00

(W) CIH Steiger 350, '13, 449 hrs, lux cab, afs ready, pto, 18.4x50 (ZCF133594) .....\$199,500.00  
 (LP) CIH Steiger 385, '09, Lux Cab, 1270 hrs, 4 remotes, 3pt, Guid. Nav. II, Pro600, 262 rec. 600/70/R42 Firestones (Z9F113952) .....\$160,000.00  
 (LP) CIH STX 380, 07, dlx. cab, 3100 hrs, 4 remotes, ez-pilot guidance (Z6F105106) .....\$109,500.00  
 (W) CIH Steiger 370, '15, 400 hours, lux perf cab, HIDs, high flow, 1000 PTO, full guidance, 480/80R50's (ZEF303352) .....\$249,500.00

(L) CIH Magnum 210, '10, 1770 hrs, 540/1000, 3PT, dux cab, ISO, susp frnt axle, PS, rear wghts, 4 hyd, 480/80R46 R1 duals, NAV II, Pro600, NO RCVR (Z9RH06249) .....\$119,500.00  
 (W) CIH Magnum 220, '14, 1625 hrs, dlx perf cab, Pro700, hi flow, susp MFD, 480/80R46s, weights, 19spd.....\$104,900.00  
 (L) CIH Magnum 315, '11, Lux Cab, 735 hrs, AFS ready, F&R duals, frnt weights, 1000 PTO (ZBRD02070) .....\$156,000.00  
 (L) CIH Maxxum 125, '09, 2050 Hours, Loader Ready, 16X16 PS, Ins Seat, 540/1000, MFD Fenders, 14.9X28, 18.4X38 .....\$56,500.00  
 (LP) CIH Magnum 310, '15, PS, susp, cab, high cap pump, dual PTO, 380/80R38, 480/80R50, guidance ready, (ZFRF01035) .....coming in

(W) Hesston 566DT, 4926 hrs, L330 Loader, MFD .....\$8,950.00  
 (W) Kubota B2920HSD, '09, 191 hrs, 29 hp, 4wd, 3pt, pto .....\$12,750.00  
 (L) Kubota B3200HSD, '09, 250 Hours, with loader and bucket, turf tires .....\$15,300.00  
 (W) NH TL90A Deluxe, '08, Rops, MFD, 552 hrs, 540/1000, like new .....\$29,900.00  
 (LP) NH TC33D, 2001, MFD, 1600 hrs, NH 7308 loader, soft cab, 72" Y755 Buhler mower .....\$14,950.00  
 (LP) John Deere 4850, MFD, 1988, 6850 hrs, 18.4x42 rear duals, frt fenders, 20 frt weights .....coming in  
 (L) McCormick MTX 110, '02, MFD, Cab, 4400 Hours, Semi PowerShift, 3 Hyd Remote .....\$39,750.00

(LP) Farmall C .....\$1,650.00  
 (LP) Case IH Farmall 75 A w/L-540 Loader, 185 hrs (1236208) .....\$26,000.00  
 (LP) White 2-155 2wd 8630 hrs .....coming in  
 (W) Case IH 7130, 2wd, 6950 hrs, big 1000 PTO, PS, good rear rubber - singles .....\$34,500.00

(W) Bobcat S185, '04, 2825 hrs, cab/heat, aux hyd, std controls, HD Bobcat tires .....\$20,900.00  
 (LP) Bobcat S205, '06, 4200 hrs, cab/heat, bobtach, 12x16.5 tires, no bucket (530512307) .....\$19,950.00  
 (LP) Bobcat MT 52 Walk Behind Skid Steer, 36" Bucket, 1014 hrs 2009 (A3WR12543) ..... just in  
 (L) Bobcat S250; 2008, Powertach, Radio, Cab w/AC/Heat; 1340 hrs .....\$28,500.00  
 (W) Bobcat 3650 UTV, '14, approx 200 hrs, cab/AC, diesel, work lights, radio, with 62" blower and 69" blade .....\$29,500.00  
 (W) Bobcat S590, '15, approx 200 hrs, A71 pkg, cab/AC, ACS controls, 2 spd, cold weather pkg, engine warranty (AR9R13815) .....\$39,500.00  
 (L) Bobcat S650, '12, 4450 hrs, A51, Cab AC/Heat, pwr tach, 2-Speed, solid tires, radio (A3NV15168) .....\$26,400.00  
 (W) Bobcat S750, '13, 420 hrs, A91, hi-flo, ACS, air ride, 2 spd, weights, camera, blinkers .....\$46,900.00  
 (W) Bobcat S770, '15, 750 hrs, A51, ACS, self leveling, 2 spd, power bobtach, cab w/ AC, Kubota 92hp diesel, air ride seat (ATF213080) .....\$45,900.00  
 (W) Bobcat S850, '11, 420 hrs, A91, Cab/AC, hi-flow, SJC, air ride seat, 2 spd, radio (ACS711166) .....\$49,500.00  
 (W) Bobcat S850, '11, 432 hrs, A91, Cab/AC, hi-flow, SJC, air ride seat, 2 spd, radio (ACS711163) .....\$49,500.00  
 (W) Bobcat S850, '11, 2401 hrs, A71, Cab/AC, SJC controls, 2 spd, power bobtach, good rubber, attachment control .....\$39,500.00

(L) CASE 1840, '93, 3400 Hours, Open Station, Good Tires, Good Service History .....\$11,500.00  
 (L) Case 445, '05, 4354 hrs, side windows, aux hyd, susp seat (N5M401296) .....\$21,600.00  
 (LP) Case TR270, '14, 340 hrs, cab/heat/ac, radio, 2 sp, quick tach (NEM482396) .....\$49,500.00  
 (W) CAT 236B, '12, 2600 hrs, cab w/ AC, power tach, 2 speed, pilot controls, bucket .....\$23,900.00  
 (W) Case 580SN, '14, 298 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, flipover stabilizer pads, 82" comb bkt (705777) .....\$82,500.00  
 (W) Case 580SN, '14, 108 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, flipover stab pads, 82" comb bucket (705779) .....\$82,500.00  
 (W) Case 580SN, '14, 1248 hrs, cab w/ AC, 4WD, Extendahoe, pilot controls, ride control, buckets, Stanley HS8000 Compactor .....\$72,500.00  
 (W) Case 580 Super L Backhoe, 4020 hrs, cab/ac, 2 stick manual controls, 24" bkt ext, extendahoe (190565) .....\$37,500.00

## TRACTOR - 4WD

(L) CIH 9170, '90, 5800 hrs, PS, bare back, 4 hyd, 650/75R32 - 45% (ZEF300365) .....\$37,750.00  
 (L) CIH 9170, '89, 9,000 Hours, 3 Point, 4 Hyd, 20.8X38, Raven Guidance system .....\$36,000.00  
 (L) CIH 9270, '91, 4890 hrs, PS, 4 Hyd, SHARP (JCB0026794) .....\$52,800.00

(W) CIH 9270, '93, 4150 hrs, PS, 4 Hyd, 20.8X42 triples-85%, EZ-Steer, EZ-Guide 500 monitor (JCB0030565) .....\$59,500.00  
 (L) IH 6588 (Snoopy); 7500 Hrs, TA & Clutch OK; Injection pump done; 18.4X38 Tires .....\$16,200.00  
 (W) Steiger Puma 1000, '86, 5600 hrs, PTO, 3pt, 12 spd PS, 18.4 x 38 Firestones (60%), rebuilt PTO, new AC unit .....\$34,500.00  
 (LP) John Deere 7520, 3pt, PTO .....\$14,000.00  
 (LP) John Deere 8760, 1991, 4780 hrs, 3 remotes, bareback, (003000) .....\$48,750.00

(W) CIH Steiger 350, '13, 449 hrs, lux cab, afs ready, pto, 18.4x50 (ZCF133594) .....\$199,500.00  
 (LP) CIH Steiger 385, '09, Lux Cab, 1270 hrs, 4 remotes, 3pt, Guid. Nav. II, Pro600, 262 rec. 600/70/R42 Firestones (Z9F113952) .....\$160,000.00  
 (LP) CIH STX 380, 07, dlx. cab, 3100 hrs, 4 remotes, ez-pilot guidance (Z6F105106) .....\$109,500.00  
 (W) CIH Steiger 370, '15, 400 hours, lux perf cab, HIDs, high flow, 1000 PTO, full guidance, 480/80R50's (ZEF303352) .....\$249,500.00

(L) CIH Magnum 210, '10, 1770 hrs, 540/1000, 3PT, dux cab, ISO, susp frnt axle, PS, rear wghts, 4 hyd, 480/80R46 R1 duals, NAV II, Pro600, NO RCVR (Z9RH06249) .....\$119,500.00  
 (W) CIH Magnum 220, '14, 1625 hrs, dlx perf cab, Pro700, hi flow, susp MFD, 480/80R46s, weights, 19spd.....\$104,900.00  
 (L) CIH Magnum 315, '11, Lux Cab, 735 hrs, AFS ready, F&R duals, frnt weights, 1000 PTO (ZBRD02070) .....\$156,000.00  
 (L) CIH Maxxum 125, '09, 2050 Hours, Loader Ready, 16X16 PS, Ins Seat, 540/1000, MFD Fenders, 14.9X28, 18.4X38 .....\$56,500.00  
 (LP) CIH Magnum 310, '15, PS, susp, cab, high cap pump, dual PTO, 380/80R38, 480/80R50, guidance ready, (ZFRF01035) .....coming in

(W) Hesston 566DT, 4926 hrs, L330 Loader, MFD .....\$8,950.00  
 (W) Kubota B2920HSD, '09, 191 hrs, 29 hp, 4wd, 3pt, pto .....\$12,750.00  
 (L) Kubota B3200HSD, '09, 250 Hours, with loader and bucket, turf tires .....\$15,300.00  
 (W) NH TL90A Deluxe, '08, Rops, MFD, 552 hrs, 540/1000, like new .....\$29,900.00  
 (LP) NH TC33D, 2001, MFD, 1600 hrs, NH 7308 loader, soft cab, 72" Y755 Buhler mower .....\$14,950.00  
 (LP) John Deere 4850, MFD, 1988, 6850 hrs, 18.4x42 rear duals, frt fenders, 20 frt weights .....coming in  
 (L) McCormick MTX 110, '02, MFD, Cab, 4400 Hours, Semi PowerShift, 3 Hyd Remote .....\$39,750.00

(LP) Farmall C .....\$1,650.00  
 (LP) Case IH Farmall 75 A w/L-540 Loader, 185 hrs (1236208) .....\$26,000.00  
 (LP) White 2-155 2wd 8630 hrs .....coming in  
 (W) Case IH 7130, 2wd, 6950 hrs, big 1000 PTO, PS, good rear rubber - singles .....\$34,500.00

# Survivor's story: Vande Voort urges farmers to be careful/continued from page 11

around his head.

"I couldn't see anything with that barrel around me," he told the Star Herald for an April 22 story about the ordeal.

"I was looking up the whole time, and I could hear them. I heard them sawing holes in the bin, and I'd see light come in."

While some scooped, others propped backboards and wood against the moving grain to keep it from closing in around Vande Voort.

"At 5 o'clock, they shoved me out a hole in the side and put me on the helicopter," Vande Voort said.

The rescue effort required a coordinated effort among dozens of trained firemen from multiple departments.

The following year, the Luverne Fire Department received donations from Eastern Farmers Coop and Gevo to purchase grain bin rescue equip-

ment.

It's a large tube that can be lowered into a bin around a victim trapped in moving grain. The grain is removed from the outside of the tube, allowing the person to be freed.

### Don't go it alone

March 11 was National Grain Bin Safety Awareness Day, and Vande Voort said there are a few key lessons to be learned from his ordeal.

•Don't go it alone. "Always have a guy outside on the ground who can help if need be," he said. "And you need a safety harness."

•Slow down. Many farm accidents occur when too much is being attempted in too little time. Vande Voort calls it the "hurry factor," in farm safety.

"Don't be in a hurry. This is hard sometimes."

•If you become trapped in a bin of flowing grain with nothing

to hold onto but you are still able to walk, stay near the outside wall.

•If you are covered by flowing grain, cup your hands over your mouth, and take short breaths until help arrives.

•If another person becomes submerged in grain, assume he is alive and begin rescue operations immediately.

•Turn on the fan to move air into the bin.

•Never attempt a rescue by going into the grain yourself. Call 911.

•Keep children out of grain bins, beds and wagons at all times. Grain flow can cover them before anyone realizes what is happening.

Vande Voort's two grandsons, age 11 and 14, enjoy helping around the farm, but he said there's one thing he doesn't allow.

"They're not to go in the bin under any circumstances," he said.

### Farm Bureau offers Agriculture Safety Awareness program

Across the country, county and state Farm Bureaus are making safety a priority through the Agricultural Safety Awareness Program (ASAP).

This year's theme for the American Farm Bureau Federation's (AFBF) safety campaign is "Caution — Safety is No Accident."

Throughout the year, Farm Bureau is encouraging farmers to emphasize the different aspects of safety.

In addition to grain bin safety, the yearlong awareness also focuses on:

- ATV safety
- youth safety on the farm
- tractor safety
- roadway safety

For more information visit the Farm Bureau website at [www.fbmn.org](http://www.fbmn.org).

*"Always have a guy outside on the ground who can help if need be. — And you need a safety harness. ... Don't be in a hurry. This is hard sometimes."*

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Truck technician Cory Schneckloth checks service orders in the Jaycox system. Below, technician Don Luitjens works on an 18-wheeler in the truck bay. (Lori Sorenson photos/0331 AG TAB jaycox trucks)

### Jaycox Truck and Trailer Service/ from page 7

He said Jaycox has three truck technicians and six ag technicians, each with their own specialties, and he said they often cross over and assist with each other's projects.

"We have a team that can work on anything that comes through the door," Ommen said. "We do straight trucks, too. ... Big or small; we work on them all."

The truck technicians are Cory Schneckloth, Don Luitjens and Dustin Donth. Jaycox ag technicians include Mike Olson, Scott Baker, Jack Hanson, Justin Selken, Troy Riley and A.J. Brands

Jaycox has been in Luverne for five years and also has locations in Worthington and Lake Park, Iowa.

Jaycox bought the dealership from Don Amos, who operated the business for 34 years after taking it over from his father-in-law, Mark Jacobson.



## Schomacker urges lawmakers to support farmers and ag business

Recently supporters of Minnesota agriculture traveled to the State Capitol to urge lawmakers to support legislation benefiting those making their living off the land and contributing to the nation's food supply.

State Representative Joe Schomacker (R-Luverne) said National Ag Day was an overwhelming success, and he was pleased to see so many residents from southwestern Minnesota making their voices heard in St. Paul.

"Lawmakers from the southern portion of the state understand the struggles farmers and other ag interests are facing, whether it's a lack of water, buffers, or low grain prices," Schomacker said.

"When our residents show up in large groups to share their stories, it truly makes an impact on those legislators who don't understand the challenges of agriculture."

Statistics show just how important agriculture is to Minnesota and our coun-

try. According to the 2012 Census of Agriculture, there are roughly 2.1 million farms in the United States, totaling 915 million acres.

In Minnesota, there are nearly 75,000 farms in Minnesota and roughly 27 million acres in production. Around 88 percent of that land is owned by families or individuals.

During National Ag Day, Schomacker said he visited with area pork producers, Minnesota Farm Bureau members, local FFA students, biodiesel representatives, and farmers co-op groups from every county in House District 22A.

"With low commodity prices and an uncertain economic climate, ag needs our full support," Schomacker said.

"We need our farmers and affiliated ag industries to stay strong, and we need all lawmakers to recognize their efforts in conservation and food production, as well as their positive contributions to Minnesota's economy."

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# Trends in farmland sales, rental rates affect net farm incomes

**Dave Bau, Extension Educator, Ag Business Management, University of Minnesota**

Recently I was asked to compare trends in Southwestern Minnesota Land Sales with average Farmland Rental Rates and SW Adult Farm Management Average Net Farm Income for corn and soybeans.

I was able to go back to 1993 for all three trends. The average farmland sales price is from nine counties in southwest Minnesota including Cottonwood, Jackson, Lincoln, Martin, Murray, Nobles, Pipestone, Rock and Watonwan counties.

The average rental rates come from average rents paid by farmers in the SW Adult Farm Management program. The average net income for corn and beans included government payments and was also from the SW Minnesota Adult Farm Management program.

The chart at right shows the

trends for farmland sales, rental rates and net farm income for corn and soybeans from 1993 through 2014.

### Average sale price

The trend line for average farmland sale prices, represented by squares on chart, starts close to \$1,000 per acre in 1993.

Prices gradually increased through 2003 with slight declines in 1996 and 2000, before increasing more dramatically from 2004 through 2008. Then there were slower years in 2009 and 2010 before rates increased at even a faster pace from 2011 through 2013 to a high average price of \$8,929 in 2013 before declining in 2014 to \$7,363. The sale prices are based on the left vertical axis.

### Average net income

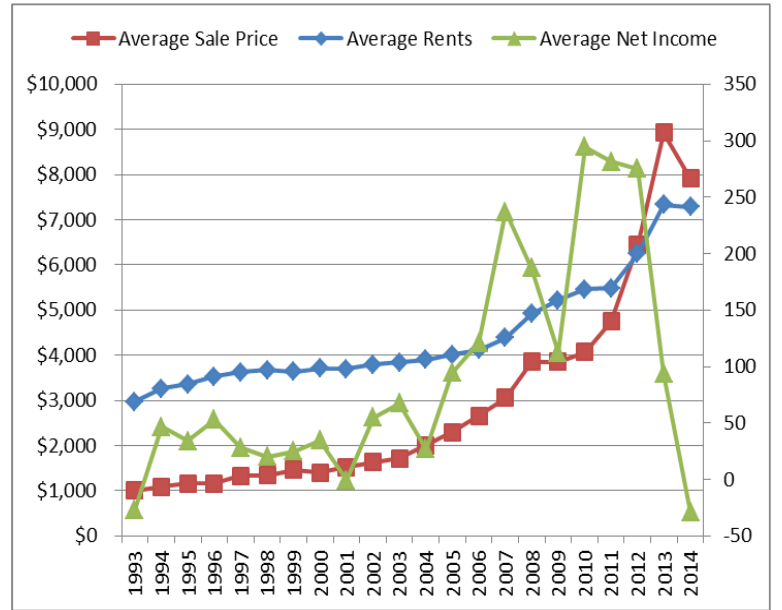
The next line uses triangles representing the average net income average per acre for corn and soybeans in Southwestern

Minnesota Adult Management. This line uses the right vertical axis and begins in negative territory in 1993, showing corn net income per acre at -\$27.95 and soybeans at -\$25.43 for an average loss for net farm income of -\$26.69. Average corn and soybean net farm income was much more variable than the other two lines.

Net income was negative in 2004 then turned positive from 2005 to 2013 before falling dramatically in 2014 to a negative average net farm income of -\$29.22 per acre.

### Average rents

The diamond shapes on the third line (also using the right ver-



This chart shows the trends for farmland sales, rental rates and net farm income for corn and soybeans from 1993 through 2014.

Farm trends/see page 17

## Joe Schomacker

*State Representative*



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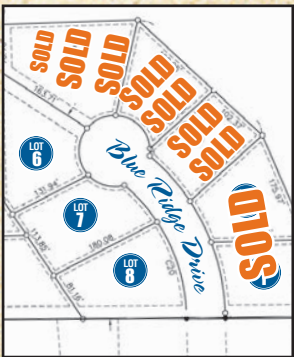


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Front row: Cory Schoeneman, Don Baustian, Harlin Rozeboom, Landon Gacke, Jeff Van Santen  
Back row: Dave Sandbulte, Adam Uithoven, Bob Krull, Karlin Van Otterloo, Derek Sandbulte, Merlin Cleveringa  
Not pictured: Lowell Schelhaas, Brian Barnhart, Glen Oeltjenbruns, Nick Cleveringa, Nate Cleveringa and Carol Cleveringa



## Trends in farmland sales and rentals/continued from page 15

tical axis) represent average rents in southern Minnesota, which started in 1993 at just under \$70 per acre and increased through 2013 reaching a high of \$243 and declining to \$241 in 2014.

The average rents did decline slightly in 1999 and again in 2001.

Comparing the three lines, you can see the relationship

between corn and soybean net income, farmland rental rates and farmland sale prices.

While farmland increased at a gradual pace from 1993 through 2006, it increased more drastically through 2010 and then took off again from 2011 through 2013.

Average net income for corn and soybeans had three years

in negative territory 1993, 2001 and 2014.

Net income was below \$55 per acre prior to 2003 and was again in 2004 while the other years varied, but at significantly higher income levels.

The lines cross in 2012 and 2013 after three year of declining net income, average farmland

sales prices moved higher and cross the average farmland rental rates line.

Net farm income has continued to decline since then while average farmland rental rates and average farmland sale prices both began to decline in 2014.

If the net income continued in negative territory in 2015 (the

numbers will come out later this month), you would expect land prices to move lower and below the average farmland rent line which should also decline in 2015.

With 2016 corn and soybean budgets projected negative at current prices, the trends for rents and land sales continue to lower in 2016.

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### Grilled T-Bone (Rib) Pork Chops with Easy Spicy BBQ Sauce SERVES 4

4 pork T-bone (rib) Chops, 1-inch thick  
Salt and pepper to taste  
Olive oil for brushing

**SPICY BBQ SAUCE:**

1 tsp. olive oil  
1/2 yellow onion, chopped  
1/4 c. ketchup  
1 tbsp. brown sugar  
1 tbsp. Worcestershire sauce  
1 tbsp. apple cider vinegar  
1/4 tsp. cayenne pepper

Preheat grill over medium-high heat and brush with olive oil. Season chops with generous amount of salt and pepper on both sides. Place pork on grill for 8-9 minutes, turning once halfway through, until internal temperature is 145°F. Remove pork from grill, tent with foil and let rest for 3 min.

**SPICY BBQ SAUCE:** Heat oil in pot over medium heat. Sauté onion until soft and add ketchup, brown sugar, Worcestershire sauce, vinegar and cayenne. Simmer for 15 min. until sauce thickens; turn off heat. Once cooled, puree sauce in blender. Serve chops with spoonful of sauce.

**Serving Suggestion:** These chops are delicious with Chive Mashed Potatoes. Find the recipe at [PorkBeInspired.com](http://PorkBeInspired.com)



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This message funded by America's Pork Producers and the Pork Checkoff.

# By the numbers: Pig farming is big business in Rock County

*"In 2015 Rock County pig farmers sent 726,711 pigs to market. That is a lot of pork that can be used to feed families in the community and across the state."*

**By Kevin Barnhart, Vice President Rock County Pork Producers**

Pork is the world's most widely eaten meat and luckily for Rock County members it is being grown and produced right in their own community.

Rock County currently ranks 47th in the nation for the number of pigs raised.

Pig farmers in Rock County are active members of their community who take pride in the care they provide their pigs and the product they produce.

When a piglet is born, it



*Gross income generated in 2015 from the sale of Rock County pigs was \$121.9 million. That allows pig farmers to invest in the local economy, which added another \$341.3 million into the Rock County economy.*

weighs only three pounds, but in just six months it will be full-grown and weigh 280 pounds.

In 2015 Rock County pig farmers sent 726,711 pigs to market.

That is a lot of pork that can be used to feed families in the community and across the state.

In order to raise healthy pigs a good diet is needed.

Rock County pigs consumed 7,630,471 bushels of corn and 2,761,504 bushels of soybeans last year that was raised by area farmers.

What goes in, must come out. Pig manure is used locally as a natural form of fertilizer to grow crops.

Pig manure adds beneficial nutrients and organic matter to the soil and reduces the need for synthetic fertilizers.

Sustainability is important to Rock County pig farmers, and they are doing their part to protect the environment by investing in new technologies that reduce water, feed and energy.

Pig farming in Rock County also benefits the local economy.

Gross income generated in 2015 from the sale of Rock County pigs was \$121.9 million.

That allows pig farmers to invest in the local economy, which added another \$341.3 million into the Rock County economy.

Pig farming wouldn't be possible without the support of the community.

Thank you to Rock County for all of the support, and we look forward to continuing to be a leader in the pork industry.

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*Make every dollar work for you. Going with the crowd, doing what everyone else does, may sound safe, but may not be what's best for you.*

**Crop Insurance:** The deadline for deciding your multi-peril crop coverage for 2016 was March 15. A smart manager met with their crop insurance agent, reviewed their options and chose a plan based on both a need to protect their investment and their family's income.

This plan can no longer be changed for the 2016 growing season, but hail coverage is still available.

**Hail Insurance:** The deadline to purchase hail insurance is,

of course, prior to hail damaging the crop.

Some companies have a waiting period before the coverage starts. These can vary from two hours to a midnight effective time.

There are companies that offer immediate coverage, but the best decisions are often made long before the crop goes in the ground.

By carefully planning your hail coverage in the spring, you avoid the emotional purchase of an impending hail storm.

It is difficult to make a rational decision when your beautiful crop is threatened by the storm of the century.

Hail coverage offers more than you may even be aware of. Many policies cover the following perils: hail, storage, fire, transit, vandalism, theft and replant.

Optional coverages that can be added to a hail policy include additional fire coverage, lodging,

wind, green snap, loss of production and extra harvest expense.

Plan types include full (basic) coverage, deductible plans, companion plans and production plans.

There are many ways to purchase hail insurance and the plans may be confusing at first.

Traditionally coverage is rated by \$100 per acre in protection. The full or base rate is the standard. From here you can choose to save on the premium by choosing a deductible. The deductibles could be from 5-30 percent of your coverage. Deductible plans are no longer the most popular way to add hail insurance coverage.

Many producers choose a companion plan that will pay two or three times the actual loss.

Production plans are a fairly new option that guarantee production based on the MPC (multi-peril) crop insurance proven yield.

While all Multi-Peril plans have the same rates and coverages, hail plans may vary widely. Understand when your hail protection ends ... some plans end coverage in October even if your crop is still in the field.

Hail rates vary by company, but your purchase should not be based on rates alone. Take the time to review the plans and choose a policy that will complement your crop insurance coverages.

Don't wait for that dark cloud to push you into a rash decision. Take control and spend your hard-earned money to protect your investment your way.

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# Buffer law: Who, what, when, where and why?

## Find answers here about the 2015 Buffer Legislation



This Star Herald file photo shows the need for a buffer strip between the field and river.

With the 2015 Buffer Legislation now in place, many landowners may be wondering how the new law will affect them.

Arlyn Gehrke of the Rock County Land Management Office, Luverne, shares the following information.

### What?

Governor Mark Dayton's buffer initiative was signed into law in June of 2015. The law establishes new perennial vegetation buffers of up to 50 feet along rivers, streams, and ditches that will help filter out phosphorus, nitrogen, and sediment.

This proposal was crafted with input from agriculture groups, environmental groups, local government groups, leg-

islators from both parties, and landowners.

### Who?

The four lead state agencies are Minnesota Department of Agriculture, Minnesota Board of Water and Soil Resources, Minnesota Department of Natural Resources, and the Minnesota Pollution Control Agency.

Locally the Rock County Land Management Office / SWCD will assist landowners with buffer legislation compliance.

If landowners are unsure if water courses on their properties would be subject to the buffer law, they should contact the Rock County Land Management Office / SWCD.

The LMO/SWCD can share

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the current public waters map and assist with available resources for landowners to implement buffers and other water quality conservation practices.

### Why?

Studies by the Pollution Control Agency show that buffers are critical to protecting and restoring water quality and healthy aquatic life, natural stream functions and aquatic habitat due to immediate proximity to the water.

Buffers will not solve every water quality problem nor are they the only conservation practice landowners can use to satisfy the buffer initiative. Alternative practices are another option for compliance. The State's policy and guidance on "alternative practices" has yet to be developed. However, these practices will be based on the NRCS Field Office Technical Guide.

### Where?

The buffer will be 50-foot average with a 30-foot minimum on public waters and 16.5 feet on drainage ditches within the benefited area of a public drainage system.

The buffer width for all water bodies covered under the law is measured from the top of the bank or from the normal water level if there is not a defined bank.

The DNR will establish and maintain a map of each county that shows the waters that are subject to the buffer requirements. The maps will be available July 2016. The 50-ft average, 30-ft minimum width provision is meant to be a practical way to accommodate meanders in streams and other landscape characteristics to ensure that buffers provide water quality benefits.

The average of 50 feet of buffer with a 30-foot minimum must be achieved within a parcel to meet the requirement.

Planting of native species is not required, but native species are generally preferred for their root structure, habitat benefits and drought tolerance. Existing reed canary grass stands currently meet the perennial vegetation standard. Alfalfa also meets the requirement of perennial vegetation allowing temporary tillage for alfalfa establishment.

The new buffer law allows for haying or grazing as long as perennial vegetative cover is maintained and the law does not restrict cattle entering the water or require exclusionary fencing.

### When?

The new law establishes the following timelines:

- DNR Buffer Protection Map will be finalized by July 2016.
- Public waters buffers will be established by Nov. 1, 2017.
- Public drainage systems buffers will be established by Nov. 1, 2018
- Local requirements and standards will be developed by July 1, 2017.

### Still have questions?

Arlyn Gehrke can be reached at the Land Management Office at 507-283-8862, ext. 4.

## VFD — is your operation ready?

Work closely with professionals for best approach to veterinary feed directive

By Dr. Erin deKoning, DVM

Changes are quickly approaching the animal health and animal feed industry. Often new ideas feel scary, difficult, and frustrating, until we become accustomed to a new way of doing things.

What changes am I talking about? The VFD, or Veterinary Feed Directive.

The VFD is not a new concept. In fact, it was first mentioned way back in 2000 and gained further momentum with the government publishing reports about antibiotic use in animals back in December of 2013.

What is the VFD? Is my operation VFD ready? By December 2016 we all will be very aware of VFDs and hopefully have our operations compliant.

Created by the Food and Drug Administration or FDA, the Veterinary Feed Directive is intended to change how medically important antibiotics are used in food-producing animals. More specifically, how medically important antibiotics are used in the feed and water for food-producing animals.

Medically important antibiotics are those medications that are used in both humans and food-producing animals. The FDA wishes to completely eliminate the use of feed and water medications that enhance animal growth or improve feed efficiency.

All medications will still be available for feed and water uses to treat, control and prevent disease; however, those medications must be used judiciously while under the supervision of a licensed veterinarian.

If your operation has a good working rela-



tionship with a licensed veterinarian, then the VFD will be an easy transition.

The main component of the VFD is that a producer works together with his or her veterinarian to diagnose an animal health problem that may require veterinary treatment.

Assuming the responsibility for making the medical judgments, the veterinarian will provide a written or electronic VFD for the producer.

The VFD must contain some key elements such as the name of the drug, the condition that is being treated, the dose of the drug, the location of the animals, and the number of animals receiving the medication.

Also, the VFD must contain an expiration date that will indicate an acceptable time frame for animals to consume medicated feeds. The veterinarian will provide a copy of the VFD to the producer and the producer's feed distributor. A copy of the VFD must be kept for a minimum of two years.

As was mentioned earlier, medically important antibiotics are those medications used in both humans and food-producing animals. Considered important to human medicine, the following antibiotic classes will require a VFD: penicillins, cephalosporins, quinolones, fluoroquinolones, tetracyclines, macrolides, sulfas, and glycopeptides.

Non-medically important products that will not require a VFD include ionophores, polypeptides, carbadox, babermycin, and pleuromutilin.

The best approach to the VFD is to work closely with your veterinarian. If you don't have a good working relationship with a veterinarian, now is the time to form one, as December 2016 will be here before we know it.

As always, if you have any questions, feel free to contact me or any of the veterinarians at Rock Veterinary Clinic, 507-283-9524.

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# What's the buzz on pollinators?

*Let's use simple conservation farm practices that protect our insect pollinators*

**Written by staff members of the Rock County Natural Resources Conservation Service**

With the increased use of herbicides and pesticides, pollinating insects continue to be at risk for decline in Minnesota. How does this affect us as producers and consumers?

According to the USDA, more than 30 percent of our food relies on pollinating insects: butterflies, flower flies, and primarily bees. Honeybees are estimated to support \$15 billion in crop

production; wild or native bees supply an estimated \$3 billion in pollination services.

What can be done in our county to address the decline in habitat loss and the overall health of insect pollinators?

Pollinators must have adequate sources of food, shelter and nesting sites. Food sources, which include nectar, pollen and larval host plants, are provided by a variety of wildflowers and grasses.

By planting these in our hedgerows and windbreaks, and adding blooming shrubs, which

usually bloom well before many flowering species, we provide food sources for the pollinators during key periods in the growing season.

For local gardeners, allowing leafy crops such as lettuce to reach the flowering stage or adding common milkweed to flower beds and gardens provides an additional food source.

Many of our best crop pollinators live underground for most of the year, sometimes at the very base of the plants they pollinate.

To protect them, using minimum tillage or turning over the

soil only where you need to, is a valuable practice for both farmers and gardeners.

Exercise care if you have to use pesticides and herbicides. Choosing the least harmful formulations and spraying on dry evenings when bees are inactive help to minimize the harmful effects on native pollinators.

According to the Xerces.org website, bumble bees in particular are more sensitive to pesticide impacts in early spring due to small colony sizes still getting established.

The current Farm Bill provides several programs including EQIP, CRP, and CSP, which promote pollinator conservation.

Conservation practices such as cover crops, buffer strips, critical area plantings, field borders, filter strips, grassed waterways, prescribed burning, prescribed grazing, and residue and tillage management are among the many practices that address the needs of native pollinators.

The local FSA and NRCS offices are available to help Rock County producers to implement these programs.

Each of us has a part to play on our farms and in our neighborhoods to make sure we do not lose the important agricultural service provided by insect pollinators. Simple practices for pollinator conservation do not have to be expensive, time-consuming, or unattainable.

Working together with neighbors and local agencies and using a little forethought and planning, we can all help pollinators rebound from the challenges they face.

Information is available at: NRCS, 311 W. Gabrielson Rd., Suite 3, Luverne, MN

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# Drought to deluge: Now's the time to adapt to extreme conditions

**By staff at Rock County Natural Resources Soil Conservation Service**

Change and the ability to adapt are essential to farming. Local area farmers are continuously re-evaluating what they are doing and how it impacts their bottom line.

Producers ultimately have two options: 1) keep doing it "the way it has always been done" and hope for better returns, or 2) make some changes to adapt to the conditions that ultimately come at the hands of Mother Nature.

How can we, as producers, modify our systems to be more adaptive to the weather events we experience, from drought to deluge?

A small, but growing movement has come out of recent weather events in Rock County. What are these progressive farmers doing? They are taking steps to improve soil health.

In our county, we have seen an increasing number of established farmers, as well as beginner farmers, who are investing in practices to improve the land they farm.

These practices include no till, strip till, cover crops, more crop diversity, contour farming, and structures to repair the raw cuts in the fields.

**No-till/strip till:** The first practices that saw an increase in adoption were those of no-till and strip-till.

No till is the planting of your crop directly into the undisturbed residue of the previous year's crop. Some adopt this practice on a rotational basis with conventional tillage, some move to continuous no till, and others have adopted a no-till/ strip till system.

Strip till is the planting of the row crops into a previously tilled 6-to-8-inch strip, leaving an undisturbed area to blanket the majority of the soil.

These practices armor or blanket the soil surface to protect it from intense summer heat or buffer the impact of that rain-drop. These practices also help prevent soil loss from wind and water erosion, loss of topsoil, sequester carbon, and put a roof on the house of the soil's biology.

**Cover crops:** Many have heard the buzz about cover crops. Recently Luverne NRCS field office held a cover crop planning workshop. The workshop provided the producers who are committing to do cover crops with a more complete plan.

The plan included considering the chemicals they are applying, desired outcomes, and application methods to increase the likelihood of success. Those that are planting covers know that more living roots in the ground can help increase organic matter, reduce soil compaction, improve soil infiltration, diversify plant biology, and hold or scavenge nutrients, along with many other great benefits.

**Structures:** Waterways, terraces, water and sediment control structures are good ways of stopping the raw tear in the

soil called a gully. We have seen a profound increase in requests to do structures on the fields.

Many of the same producers who are putting these practices into place understand that, without other soil practices, they are only fixing the most noticeable problem. It is important to look at all the factors that caused that gully.

A gully is simply a symptom of a weak or failing system. Other adjustments such as changing row direction, increasing crop diversity by adding a small grain or legume, reducing tillage, or contouring can reduce the speed of the surface water and soil movement, helping the practices last longer.

Farmers with vision educate themselves so as to make informed decisions about what



How can we, as producers, modify our farming operations to be more adaptive to the weather events we experience, from drought to deluge?

will work for their operation and avoid the "quickfixes" that undermine worthwhile conservation practices.

They incorporate changes to ensure land will be as productive in the future as it is today, building sustainable operations for generations to come, and a healthy soil to continue to feed the world.

If you are interested in the Natural Resource Conservation Service (NRCS) helping you to develop a conservation plan tailored to your land, or if you would like more information on any of the conservation practices mentioned here, contact the NRCS Luverne Field Office.

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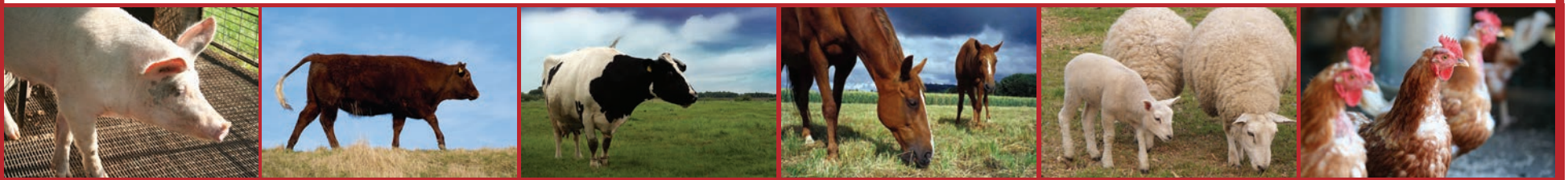
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