Farm & Ranch Monthly Magazine

Published monthly by The Roundup

PO Box 1207 • Sidney, MT 59270 • 406-433-3306 • info@roundupweb.com

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ROUNDUP

Mondak Ag Days Edition

Entertainment by The Peterson Farm Bros, Page 12

Producing Hemp Discussion by Dr. Chengci Chen at MonDak Ag Days



By Anna Dragseth

On Thursday, March 12 at 9 a.m., Dr. Chengci Chen, cropping systems agronomist and superintendent at the Sidney Eastern Agricultural Research Center, will be informing MonDak Ag Days attendees on producing hemp.

Industrial hemp farming has become increasingly popular in Montana; farmers that are growing hemp are seeing both a demand and profit increase, while farmers who have never grown hemp before are rushing to plant it in their fields.

The production of industrial hemp in the United States was made possible in Dec. 2018 when President Donald Trump signed the Farm Bill into law; the legislation removed hemp from the government's controlled drug category, stimulating a surge in demand for cannabidiol (CBD), a chemical that is derived from hemp plants. This enables Montana farmers the opportunity to include an additional crop choice to their rotation plan with potential for a high return.

Industrial hemp is a variety of Cannabis sativa L. and is of the same plant species as marijuana. Hemp, however, has lower levels of the psychoactive compound THC (tetrahydrocannabinol). Hemp contains less than 0.3% THC, while marijuana has over 30% THC.

Variety selection, environment, and agronomic management can affect the concentration of CBD. As industrial hemp has not been grown in the United States

for many years, data available from the earlier research is not suitable for today's agriculture. Because of this, scientists and researchers have started implementing trials of hemp at the Montana State University Eastern Agricultural Research Center, Sidney. Chen and Dr. Apurba Sutradhar, postdoctoral research associate; have been working on the hemp trials in an effort to see how profitable hemp can be in eastern Montana. "Our goal is to adapt hemp as a mainstream and/ or rotational crop for industrial application. The main objective for this research project is to optimize cultivation practices for eastern Montana. We are evaluating germplasm, agronomic parameters, production/harvest for use as fiber, grain, and CBD, nutrient management, and performance of hemp under eastern Montana conditions," explained Sutradhar.

Chen explained that he would be evaluating variety response to seeding date and plant spacing to tissue CBD concentration. Chen said, "Precise data is not available on the size of the potential market of industrial hemp in the United States. However, current industry estimates report that United States retail sales of all hemp-based products may be nearly \$500 million per year."

There is a lot of excitement in the farming community because hemp is seen as a high-return crop. Many farmers around the country are struggling to make ends meet, and hemp just might be the crop they need to increase profits.

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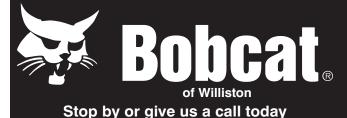


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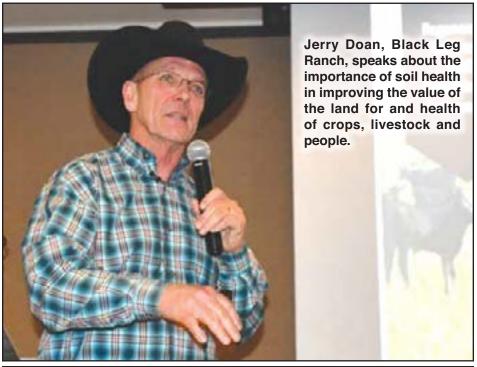
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2020 National Hard Spring Wheat Show

The 2020 National Hard Spring Wheat Show was held Feb. 13 at the Williston ARC. The conference included seminars on weather, wheat production, soil health, weed control and the popular 5th grade bread fair. Jay & Jerry Doan, Black Leg Ranch near McKenzie, ND, spoke at the awards dinner. Their presentation was "Regenerating Soil Health While Improving the Bottom Line" and "Diversifying Ag: Thinking Outside the Fence."





Helena Agri-Enterprises, LLC Meeting Set for March 12

By Anna Dragseth

Helena Agri-Enterprises, LLC, will be hosting an informational meeting at Teddy's Residential Suites, Watford City. Starting at 3 pm on Thursday, March 12, Farmers and ranchers are encouraged to attend the meeting to learn more about Purina animal nutrition, Bayer animal health, and agronomy updates.

The Purina and animal health update will feature Lance Enget and Ron Bernhardt. Enget will be providing an overview of Purina's fly control mineral, and he will also be discussing Purina's new product line called RX3, which deals with starter rations. Bernhardt will be talking about the four types of fly species and the products that control them best.

The agronomy update will include information on surfactants, supplementing crops with foliar nutrients, seed treatment, root disease, protecting fertilizer while maximizing the efficiencies of nutrients being applied, and a review of emerging/persistent weed seedling ID.

Surfactants improve pesticide efficiency; increase the foliar uptake of herbicides, growth regulators, and defoliants. The choice of the adjuvant in an agrochemical formulation is vital. Different types of surfactants include anionic, amphoteric, nonionic, and cationic surfactants. At the meeting, attendees will also be informed of options they can use for spring burndown, different herbicides, and varying weed pressures.

There will also be information provided on how to supplement crops with foliar nutrients in order to maximize return on acres. Some methods used to accomplish this is to develop a basic understanding of what the particular crop needs, apply nutrients at the optimal time, use most effective foliar fertilizers, and support higher yields with strong soil nutrition.

Seed treatment, root diseases, and protecting fertilizer while maximizing the efficiencies of the nutrients being applied to a certain crop will also be discussed.

After the informational meeting, there will be dinner served at 5:30 pm. Attendees will have the opportunity to receive discounted booking prices on Purina Fly Control mineral. If you are interested in attending, please notify Helena Agri-Enterprises at 701-444-3772.

The Early Morning Red Angus Ranch Will be Marketing Bulls & Heifers March 11

The Early Morning Red Angus Ranch will be marketing 35 yearling Red Angus bulls and 30 replacement Red Angus heifer calves Wednesday, March 11 at 1 p.m. at the Sitting Bull Auction, Williston.

The Early Morning Red Angus Ranch is located 12 miles south of Tioga. Owner and operator, Carl Frisinger, bought the ranch in 1965; having grown up in a ranching family, Frisinger grew up raising Herefords. However, when they became hard to sell, he bought six Red Angus cows from the Leland Drought Reduction Sale and started marketing Red Angus cattle in 1984 using Leland Red Angus bulls and Amber Light Red Angus bulls.

Frisinger's cows begin calving on their own in the hills in April and May and the calves are range-raised on the 2,050-acre ranch and the additional 5,000 acres Frisinger leases from a neighbor. November 1, the calves are weaned and moved to the Sheldon Brothers Feedlot. "The Northwest Veterinary Clinic, Powers Lake makes sure they're all healthy. The quality of the cattle is second to none," he added.

Anyone interested is welcome to view the bulls at Sheldon Brothers Feedlot, Ray. For more information, give Carl a call at 701-664-2668.



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Thursday: 8am - 6pm Friday: 8am - 2pm

- Thursday, March 12

Chengci Chen – Director of the Eastern Ag Research CenterWeed ID Workshop* Brian Jenks - NDSU Cropland Weed Extension Specialist 12pmLunch Break Served On-Site Provided by the Sidney FFA Alumni Paul Detloff – Loveland Propietary Products Local Individuals Marlin Johnston – Richey Farmer/Rancher

- Friday, March 13

Sidney Chamber Breakfast Sponsored by Advanced Communications Estate Planning In Montana Marsha Goetting – MSU Extension Specialist Ron Hanson – University of Nebraska – Agricultural Economics Specialist 12pmLunch Break Served On-Site Provided by Sidney FFA Alumni

Banquet tickets can be purchased the day of the event at the Stockman Bank booth at the Trade Show.

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FEATURING



Peterson Farm Brothers

With a passion for promoting their family's lifestyle of farming, the Peterson brothers took a new approach. In 2012 they decided to create a parody of LMFAO's song, "I'm Sexy and I Know

It," about farming entitled, "I'm Farming & I Grow It." Within just two weeks their video went viral on YouTube with over 6 million views. The

brothers said the song took their ag-focused message and spread it worldwide. Since releasing the song, they have traveled the country to share heir view on what makes farming important. With their interesting and fun approach to agriculture awareness, you won't want to miss out on the chance to see them at the banquet Friday night!

FOR MORE AG DAYS INFO:

Contact the Sidney Chamber at 406-433-1916 or visit our website: sidneymt.com Find us on Facebook! facebook.com/MonDakAgDays

Ron Hanson To Discuss Farming and Ranching Succession At MonDak Ag Days



By Anna Dragseth

Starting at 11 a.m. on Friday, March 13 at the Richland County Event Center, Ron Hanson, agribusiness professor emeritus, University of Nebraska, will be speaking about "Farming and Ranching Succession - in the Shark Tank of What If."

Hanson has been a college professor for 46 years; throughout his teaching career he has earned 31 university and national award recognitions. These honors include: being the first Nebraska professor to receive the USDA Excellence in University Teaching Award, being named the Nebraska Professor of the Year by the Carnegie Foundation, and selected as the University Educator of the Year. He is a recent recipient of the Nebraska Farm Bureau Silver Eagle Award for his dedication and service to ag youth as well as farm families in rural America.

His discussion will focus on helping farm and ranch families realize the importance/need of contingency planning to begin a process of working out a succession plan to keep their farm/ranch in the family for future generations.

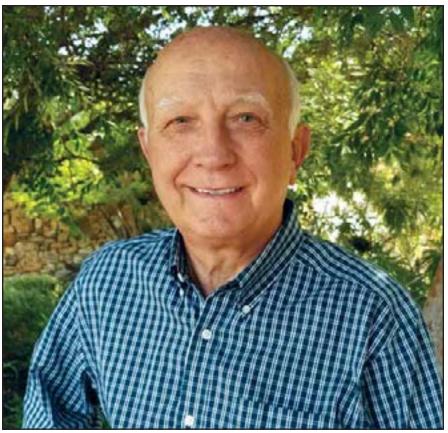
Hanson has counseled with Nebraska farm families for more than 40 years to help them resolve family conflicts and to improve family relationships through better communications. His current efforts have been directed at farm business ownership succession and the transfer of management control between generations. Through his publications and professional travels, Hanson is recognized as a keynote program speaker on the importance of contingency planning to keep family members on their farms to continue farming legacies for future generations.

During Hanson's presentation, he will be informing attendants on how to develop and implement a business management contingency plan in order to overcome unexpected changes to the organizational structure and/or management leadership to a family farm, which is crucial for the continued success of a farming operation. Hanson explained, "An effective management strategy is to put yourself in the 'shark tank' and begin addressing the difficult questions and situations that might arise from these uncertainties in farming. That is a necessary step in protecting/

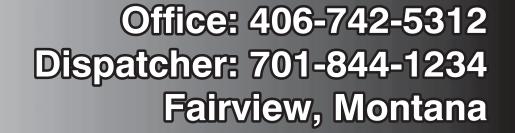
managing the farm's wealth and preserving farm business assets for future generations. Few farming operations ever survive an unexpected change to the organizational management structure of their farming business, let alone a crisis situation within the family. Most farm families realize the importance of implementing a contingency business plan for if and when something ever happens, but few families ever accomplish this management goal."

To hear more from Ron Hanson about farming and ranching succession, make sure to attend MonDak Ag Days!



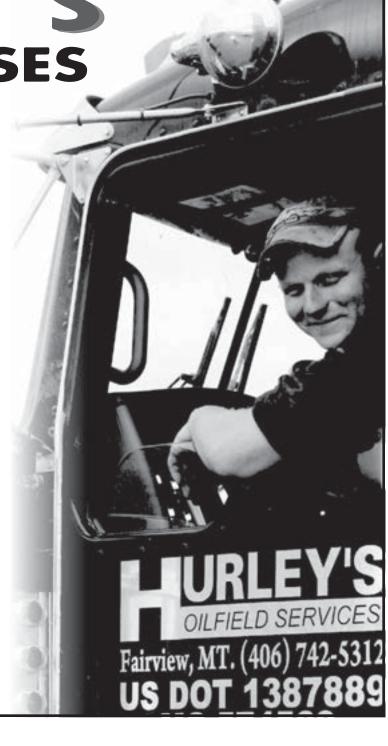


Ron Hanson, University of Nebraska Agribusiness Professor Emeritus



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Goetting To Discuss Estate Planning In Montana At MonDak Ag Days



By Anna Dragseth

Dr. Marsha Goetting, professor and extension family economics specialist, will be discussing estate planning in Montana, during the MonDak Ag Days event at the Richland County Event Center Friday, March 13 at 9 a.m.

Dr. Goetting will be discussing how the development of an estate plan can benefit just about anyone. Young or old, wealthy or middle class, an estate plan can reduce the taxes and expenses of an estate, simplify and speed the transfer of assets to the next generation and help ensure that beneficiaries are protected.

Goetting said, "Estate planning is the process of anticipating and arranging, during a person's lifetime, for the management and distribution of that person's assets during the person's life and after death. Some people use the term legacy planning which includes the values, hopes, aspirations for the future, and memories, you want to leave behind for your friends, relatives, and immediate family members. I plan to illustrate both. No longer are federal estate taxes an issue for 99.9% of Americans."

Goetting has a reputation of making estate planning interesting. She keeps attendees actively involved by offering opportunities to answer questions using electronic response clickers. People who attend Goetting's talk will learn why estate planning is essential. They will also learn when a will controls property distribution and when it doesn't and the advantages and disadvantages of a trust.

Goetting explained that her goal is to encourage attendees to take action

towards planning their estates. "If they have a spouse, the first step is to discuss who they want to receive their property. Then decide to leave the property equally versus equitably. A visit with an attorney can help with the legal issues," said Goetting.

Creating an estate plan is not something everyone thinks about doing, especially young people. Still, Goetting said, "Even a young couple with children needs estate planning if for no other reason to name guardianship of the children and also the conservator. The conservator handles the money. A couple can have one person perform both functions or one person as a guardian and the other as a conservator."

If you do not complete an estate plan, it will enable others the opportunity to make decisions for you.



Dr. Marsha Goetting, professor and extension family economics specialist.

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Lot 2 :: 19649459 :: KG Resolution 4042 BW: 3.8 WW: 61 YW: 113 MILK: 28



Lot 3 :: 19649464 :: KG Resolution 4042 BW: 0.6 WW: 56 YW: 106 MILK: 28



Lot 9 :: 19649322 :: S A V Resource 1441 BW: 1.1 WW: 57 YW: 107 MILK: 25



Lot 14 :: 19649192 :: GDAR Leupold 4493 BW: -0.3 WW: 62 YW: 103 MILK: 24



Lot 31 :: 19649820 :: GDAR Leupold 4493 BW: 3.4 WW: 62 YW: 99 MILK: 27



Lot 11 :: 19649802 :: GDAR Leupold 4493 BW: 3.8 WW: 62 YW: 98 MILK: 29



Lot 32 :: 19649597 :: Paintrock Trapper BW: 4.5 WW: 59 YW: 102 MILK: 28



Lot 25 :: 19649570 :: Paintrock Trapper BW: 1.6 WW: 62 YW: 106 MILK: 31



Lot 61 :: 19664506 :: G D A R Rainmaker 340 BW: -1.4 WW: 18 YW: 36 MILK: 32



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Peterson Farm Brothers Performing MONDAK At MonDak Ag Days March 13





By Bill Vander Weele

The Peterson Farm Brothers have been a strong voice for agriculture while entertaining through videos and in concert over the last seven years. They will share their message at this year's MonDak Ag Days' banquet on Friday, March 13.

"We will be performing parody music and talk about how we pretty much started promoting farming," leader of the group Greg Peterson said.

He said the group has performed in more than 40 states. Their parody videos have attracted more than 100 million viewers on Facebook and YouTube.

"I do all the writing and production of the videos," Greg said. "Ideas come when I'm just working on the farm and thinking creatively."

The Peterson Farm Brothers' first video was "I'm Farming and I Grow it." Their recent hits have included "Pasture Road (Old Town Road Parody)," and "Crazy Grain (Crazy Train Parody)."

Their performances have resulted a solid following. "We've been recognized for a couple of things," Greg said. "We're just trying to promote agriculture whether it's through our videos or posts or in person."

They have done blogs on topics such as GMOS, pesticides, hormones, antibiotics, animal welfare and organic food.

The Petersons work a fifth-generation farm in Assaria, KA, where they raise beef cattle and have wheat, corn and alfalfa crops.

"We look forward to coming to Montana and meeting some new people." Greg said. "We will provide entertainment as well as education and inspiration."

Tickets for the banquet at the Richland County Event Center are \$45. Tickets are available at the Sidney Chamber, Richland County Extension office, Stockman Bank, Tri-County Implement or by going online to www.sidneymt.com.

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Intercropping And Cover Cropping Strategies Focus Of ARS BrownBagger

By Beth Redlin

As weeds, disease and pest insects take a bigger bite out of farmer profits, many are looking for new ways to maintain or increase crop production, while reducing input costs for managing those pests. Among the more novel approaches to address pest and productivity issues is the use of intercropping or the planting of two (or sometimes more) crops together in the same field at the same time. Advantages to intercropping can be found in more efficient use of resources (water, nutrients and sunlight) leading to increased net productivity per acre; reduced pest densities as the intermingled crops confuse pest insects or attract beneficial ones, and, in some instances, reduced disease incidence compared to monocropping.

Research Specialist Ezra Aberle is among several North Dakota State University researchers studying intercropping at NDSU's Carrington Research Extension Center (CREC) and he will be sharing results of their work to date this coming Friday, March 6 at the USDA-ARS Northern Plains Agricultural Research Laboratory (NPARL), Sidney. Aberle is the fourth speaker in NPARL's annual winter BrownBagger Series. His talk runs from noon - 1 pm at the Sidney, ARS lab located at 1500 N. Central Ave.

"I'll be talking about the research being conducted at the Carrington Research Extension Center on intercropping and interseeding," Aberle said, "along with a multiyear, more statewide, trial on cover crop timing strategies." Intercropping studies at Carrington include flax/chickpea, and corn silage/ companions like legumes in traditional systems, along with oat/field pea in organic systems.

Aberle is a native of Valley City, although he lived throughout the Great Plains and Iowa while growing up. He attended NDSU for two years before transferring to Iowa State University where he earned a B.S. in animal science and an M.S. in crop physiology and production. He began working at the Carrington station in 2002 and has been there ever since.

Aberle's research focuses on Carrington's long-term cropping systems study which he has managed for over 15 years. He also does research in CRP management for biomass production; perennial grasses, legumes and cover crop species demonstrations across salinity gradients; evaluation of grasses for biomass production, and intercropping legumes and cover crops.

NPARL invites all interested persons to join us for this very informative presentation beginning at noon this Friday, March 6. Bring your lunch. We'll provide the dessert!

For questions or more information, contact Beth Redlin at 406-433-9427 or beth.redlin@usda.gov.

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Check Your Sump Pump

A Common Cause Of Sump Pump Failure Is Damaged Or Rusted Bearings In The Motor



The primary and backup pumps are in the bottom of this sump. (NDSU photo)

By NDSU Ag Communication

A sump pump is the first line of defense for many homeowners to prevent water from seeping into the basement.

"Last spring, many sump pumps hadn't run much in the previous years, but with snowmelt last spring and excess rain in the fall, they ran quite frequently and, in some houses, the sump pump has been running almost all winter," says North Dakota State University Extension Agricultural Engineer Tom Scherer. "However, before the snow starts melting this spring, homeowners should check their sump pump to make sure it works properly, and if it has been running a lot, have a backup ready in case it quits.

"Due to excess rain last fall, the soil is saturated, and as the snow starts melting, some water is sure to seep into the tile surrounding the house footings," he adds.

Sump pumps are available in two basic models: upright (commonly called a pedestal) and submersible. Either works well with proper maintenance.

The pedestal pump's motor usually is about a foot above the top of the sump and the pump is at the base, which sits on the bottom of the sump. The motor is not meant to get wet. A ball float connected by a rod to a switch near the motor turns the pump on and off.

"One advantage of this type of pump is that the on/off switch is visible without having to look into the sump," says NDSU Extension Agricultural Engineer Ken Hellevang.

Submersible pumps are designed to be submerged in water and sit on the bottom of the sump. A float-activated switch controls the pump's on/off operation.

The float moves according to the water level in the sump. When the water in the sump rises to a certain level, the pump turns on, and when the water drops to a certain level, the pump turns off.

The float control mechanism can have different configurations, depending on the manufacturer. The on/off distance is adjustable on some models and not on others.

To check the pump's operation, first make sure the discharge pipe on the outside of the house is not plugged and that it directs water away from the house. Alternatively, some cities allow the sump pump to discharge into the sanitary sewer before March 31 for a fee.

Make sure the pump is plugged in. Remove the lid (if the sump has one) and use a flashlight to check that the sump doesn't contain any material that can plug the pump.

If the sump is dry, lift the float for about 10 seconds to see if the pump turns on and runs smoothly, then lower the float slowly. Briefly running a pump when it's dry will not do any damage.

If you have an electric backup pump, that can be checked the same way.

You also can check the pump's operation by pouring water into the sump until the float turns the pump on. Try to simulate the speed that water normally would flow into the sump. Watch the on/off float operation and listen to the pump.

"Make sure the pump turns on and off at least twice," Hellevang advises. "If the pump sounds like it is pumping gravel or the float is sluggish, then you may need a new pump or float."

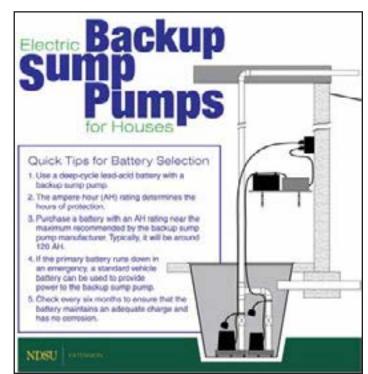
A common cause of pump failure is damaged or rusted bearings in the motor. Another common problem is the float switch doesn't make good electrical contact and turns on slowly or not at all.

"If the homeowner is new and not familiar with sump pumps, now is a good time to call a licensed plumber," Scherer says. "The plumber can check to make sure the sump pump is ready for the spring thaw."

Because of power outages or sump pump failure, many houses have additional protection in the form of an electric backup sump pump. This pump is installed in the same sump as the primary pump, but it only turns on if the primary pump fails.

These pumps are battery-powered.

Battery maintenance is very important, the specialists say. For more information, see the NDSU publication "Electric Backup Sump Pumps for Houses" (available online at https://tinyurl.com/ BackupSump-Pumps-NDSU or from the NDSU Distribution Center at 701-231-7883. or contact the Extension office in your county.





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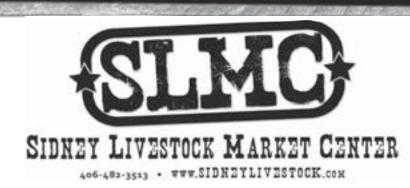
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Wed, Mar 11th Triangle M Red Angus & R/K Red Angus Bull Sale – 1:00 PM

Wed, Mar 18thBred Cow Sale, Replacement Hfr Special & All Class Cattle Sale 9:00 AM

Wed, Mar 25th.....All Class Cattle Sale 9:00 AM

Wed, Apr 1st..... Grass Calf Special & All Class Cattle Sale 9:00AM

Wed, Apr 8thAll Class Cattle Sale 9:00 AM

Fri, Apr 10th..... Regency Acres Bull Sale 1:00 PM

Wed, Apr 15thAll Class Cattle Sale 9:00 AM Wed, Apr 22ndReplacement Hfr Special &

All Class Cattle Sale 9:00 AM

Wed, Apr 29thAll Class Cattle Sale 9:00 AM

Wed, May 6thAll Class Cattle Sale 9:00 AM

Wed, May 13thPair Special &

All Class Cattle Sale 9:00 AM

Wed, May 20thAll Class Cattle Sale 9:00 AM

Wed, May 27thNo Sale

Wed, Jun 3rd......All Class Cattle Sale 9:00 AM

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Thursday, March 12

8am	Trade Show Opens
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	- Director of the Eastern Ag Research Center
	Weed ID Workshop
Brian Jenks – I	NDSU Cropland Weed Extension Specialist
12pm	Lunch Break Served On-Site
-	Provided by the Sidney FFA Alumni
1pmThe Important	ice of Adjuvants in Pesticide Application
	Paul Detloff - Loveland Propietary Products
2pm	Young Farmer/Rancher Panel
	Local Individuals
3pm	Break
	n in the Winter Part 2: An Update from
	the 2019-2020 Grazing Season
	Marlin Johnston – Richey Farmer/Rancher
6pm	Trade Show Ends

Friday, March 13

2 10000 / 1 2001 010 20
7amSidney Chamber Breakfast
Sponsored by Advanced Communications
9amEstate Planning In Montana
Marsha Goetting – MSU Extension Specialist
11am . Farming and Ranching Succession in the Shark Tank of
WHAT IF
Ron Hanson – University of Nebraska – Agricultural Economics
Specialist
12pmLunch Break Served On-Site
Provided by Sidney FFA Alumni
12:30pmRon Hanson – Session Continued
2pm Ron Hanson Session Concludes/Trade Show Ends
5pm Pre-Banquet Social
6pm MonDak Ag Days Banquet – Featuring The Peterson
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Everything Sugar Beets Galore: ISBI Event March 11-12





By Nicole Lucina

If you're looking for all things sugar beet, then The International Sugarbeet Institute (ISBI) is just the event for you! It's held every March and is the United States' largest exhibit of sugar beet equipment and products.

The ISBI is held in Fargo and Grand Forks, ND and alternate years. The 2020 ISBI event is being held in Grand Forks and will spotlight legislators, sugar specialists and agricultural leaders. It will take place March 11-12 at the Alerus Center. Both admission and parking are free for this event.

While the schedule is subject to change, the ISBI is set to kick off this year on Wednesday, March 11, 9 a.m. There is a free breakfast both days from 9-9:30 a.m. for all vendors and attendees, along with a free lunch at noon.

Dr. Courtney Gaine, Sugar Association President and CEO, will be giving a presentation during the show on Wednesday. Before starting at the Sugar Association, Gaine was a senior science program manager at the North American branch of the International Life Sciences Institute (ILSI North America).

At ILSI North America they focus on applying and understanding the science behind the nutritional quality and safety of food.

Doors open again at 9 a.m. on Thursday where Scott Herndon, American Sugarbeet Growers Association vice president and general counsel, will give a presentation. In his current position, Herndon is the decision maker when it comes to biotechnology and regulatory issues for sugar beet growers in the U.S.

Doors close at 5 p.m. on Wednesday and at 3 p.m. on Thursday. This event dates back to 1963 where it started in Crookston, MN. It started out as a specialized event and was held during the winter. Later on, it became a two-day trade show and educational opportunity. It gained its international status in 1980 when growers from Manitoba hopped on board and started participating.

Attendees are in for a treat with exciting displays and exhibits along with the special guest speakers who cover a wide variety of topics that pique the interest of anyone in agriculture. One of the specialties of this event is the millions of dollars' worth of equipment that growers will have the chance to scope out.

The ISBI has become such a big event, it's estimated that 4,000 people will attend this year. Exhibitors are even given the opportunity to win awards during the two-day event.

For more information on the 2020 ISBI, you can visit sugarbeetinstitute.com, view their Facebook page, call Mohamed, 218-790-8596 or email mohamed.khan@ndsu.edu.

MSU Agriculture Student Earns National Leadership Honor

By Reagan Colyer, MSU News Service

Bozeman — A Montana State University student will travel to Washington, D.C. after earning a spot in a selective national program from the U.S. Department of Agriculture.

Natalie Sturm, a senior studying agroecology in MSU's Sustainable Food and Bioenergy Systems program in the College of Agriculture's Department of Land Resources and Environmental Sciences, was one of 20 undergraduate students selected as part of the USDA's 2020 Future Leaders in Agriculture Program. The goal of USDA program is to assist young agriculturalists from around the nation in shaping the current and future state of agriculture by interacting with policymakers, producers and industry leaders at the annual USDA Agriculture Outlook Forum.

"Natalie always amazes as she leaps to new heights with her achievements in academics, discovery, leadership and service to Montana State University, the Bozeman community and the field of sustainable food systems," said Selena Ahmed, associate professor in sustainable food and bioenergy systems, an interdisciplinary program between College of Agriculture and the College of Education, Health and Human Development, who nominated Sturm for the program. "She shines in every class and in the lab with her unparalleled enthusiasm and deep curiosity characteristic of a strong researcher."

Sturm became involved with Ahmed's work in MSU's Food and Health Lab after her freshman year at MSU, but she said she was inspired to pursue work in the field of sustainable food and agriculture much earlier, after taking a human nutrition class while in middle school in her home state of Illinois.

"I grew up north of Chicago, definitely not an agricultural area at all. That class opened my eyes to the idea that agriculture doesn't have to be harmful to the environment, which was the story I'd always been told," said Sturm. "When I realized that agriculture can actually help to solve some of our most pressing environmental problems, I knew that was what I needed to do with my life, from the time I was 13 or 14."

Drawn by MSU's Honors College and sustainable agriculture curriculum options, Sturm arrived in Bozeman in 2016 and immediately became involved in both research and her new community. She spent the summer after her freshman year studying local food systems in eastern Montana and later took a trip to Morocco to participate in a research project focused on sheep grazing and plant surveying. But some of her favorite work has been done in the Food and Health Lab, examining how agricultural management and the environment impact the nutrient density of agricultural crops.

"I had never really thought of that before I started working in Dr. Ahmed's lab," Sturm said. "I'd never made the connection that where and how a crop is grown can actually impact how nutritious that crop is. It's been really neat to get to experiment with that both in the lab and in the field."

(continued on page 24)



Wet Weather Increases Risk for Wheat Midge in 2020

An Insecticide Will Probably Be Needed To Reduce Potential Yield Loss

By NDSU Ag Communication

Soil samples in North Dakota indicate increasing levels of overwintering wheat midge larvae (cocoons) for the 2020 season, says Janet Knodel, North Dakota State University Extension entomologist.

A total of 1,900 soil samples were collected from 20 counties in the fall of 2019 to estimate the statewide risk for wheat midge in the 2020 field season. The distribution of wheat midge is based on unparasitized cocoons found in the soil samples.

"About 1% of the soil samples had very high population densities of wheat midge (greater than 800 midge larvae per square meter) this past year," Knodel says. "The hot spots were located in west central Wells County and southwestern Ramsey County."

Another 2% was at a high-risk level (501 - 800 midge larvae per square meter) in northeastern Bottineau County, central Mountrail County and northeastern McLean County.

"These populations are high and indicate that an insecticide will probably be needed to reduce potential yield loss from wheat midge, assuming wheat is in the susceptible growth stages during midge emergence and midge populations are at economic threshold levels during field scouting," Knodel notes.

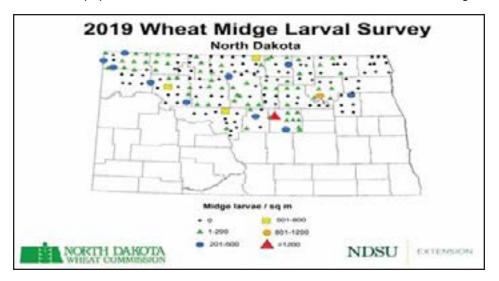
Scouting for wheat midge adults during emergence is a good integrated pest management, especially if wheat fields are in the susceptible crop stage, heading to early flowering (less than 50% flowering). Scouting for the orange adult flies is conducted at night when temperatures are greater than 59 F and the winds are less than 6 mph.

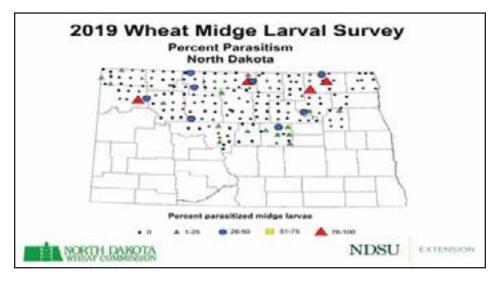
"Use a flashlight and slowly scan the heads of wheat plants for wheat midge adults, counting the number of flies per head," Knodel says.

The economic thresholds for wheat midge are: one or more midge observed for every four or five heads on hard red spring wheat, or one or more midge observed for every seven or eight heads on durum wheat.

The moderate risk level (201 - 500 midge larvae per square meter) also was observed in 5% of the samples. Moderate risk areas were scattered in eight counties throughout the state, including the northeastern area (Nelson County), the central area (Sheridan and Wells counties), the north-central area (McHenry and Rolette counties), and the northwestern area (Divide, Mountrail, Williams counties).

"These population levels are considered non-economic for wheat midge,"





Knodel says.

Thirty-four percent of the soil samples were at low risk, but scouting for wheat midge always is a good idea. The majority of the soil samples, 58%, had zero wheat midge cocoons, compared with the record low of 84% in 2018.

Knodel adds, "This dramatic increase in wheat midge populations is probably due to the rain in 2019. Plotting out the total rainfall from May through September and total number of wheat midge cocoons for the past eight years showed a strong correlation between precipitation and wheat midge populations."

Larvae are susceptible to dryness and require rain to emerge from the soil in late June through mid-July, and to drop out of the wheat heads and dig into the soil to overwinter as cocoons.

Knodel recommends that producers use the wheat midge degree-day model to predict the emergence of wheat midge and to determine when to scout, and if their wheat crop is at risk.

Producers can access the wheat midge degree-day model on the North Dakota Agricultural Weather Network (NDAWN) website at https://ndawn.ndsu.nodak.edu/wheat-growing-degree-days.html.

Select your nearest NDAWN station and enter your wheat planting date. The output indicates the expected growth stage of the wheat and whether the crop is susceptible to midge infestation, as well as the timing of wheat midge emergence.

Knodel says, "The good news for 2019 is that the beneficial parasitic wasp, which naturally controls wheat midge eggs and larvae, increased to 15% of wheat midge cocoons parasitized, compared with only 9% in 2018. The average parasitism rate was also higher: 36% in 2019, compared with less than a 5% parasitism rate for the last four years (2015 - 2018). The highest parasitism rates were found in Bottineau, Cavalier and Williams counties.

"We need to continue to conserve parasitic wasp populations by scouting for wheat midge and spraying insecticides only when wheat midge populations are at economic threshold levels," she adds. "Parasitic wasps fly later than wheat midge, so avoiding any late insecticide applications also will reduce the negative impacts on these 'good' insects. This tiny, metallic wasp does an excellent job keeping the wheat midge in check by providing free biological control of wheat midge in wheat fields."

NDSU Extension agents collected the soil samples. The North Dakota Wheat Commission supports the wheat midge survey.

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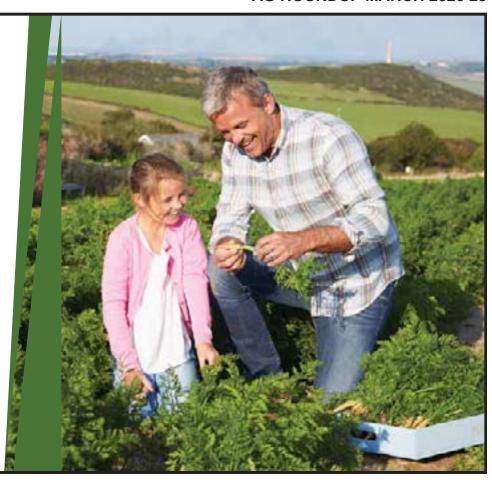
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National Leadership Honor...



Above: Natalie Sturm, Montana State University senior majoring in sustainable food and agroecology, has received the U.S. Department of Agriculture's Future Leaders in Ag honor, one of 20 undergraduate students nationally to receive the honor. (MSU Photo by Adrian Sanchez-Gonzalez)

Right: Natalie Sturm leads a class for elementary school students during a 2017 research trip to Morocco.



(continued from page 21)

While busy with undergraduate research projects, Sturm has reserved time for engagement in the greater MSU and Montana communities. She's been a member of the College of Agriculture's ambassador program for three years, currently serving as chair, and calls it one of her favorite parts of her college experience. As an ambassador, Sturm interacts with prospective students and their families and helps organize events such as MSU Friday and the college's annual Celebrate Agriculture weekend. She judges middle school and high school FFA events, coordinates ambassador involvement in the annual FFA convention and has long been engaged in showing younger students how agriculture can become a career.

"A lot of times it's hard for people to feel connected and find a community and being an ambassador has really helped me with that," Sturm said. "It's helped me to cultivate that community for myself and has also given me the opportunity to hopefully show prospective students that those communities can exist at a university."

Sturm will travel to Washington, D.C. later this month for the Agricultural Outlook Forum and a week of networking with legislators, agricultural experts and the 19 other undergraduate and 10 graduate members of the Future Leaders in Agriculture program. That trip will cause her to miss the presentation of MSU's annual Awards for Excellence, of which she is one of three student recipients from

the College of Agriculture.

Once she returns, she plans to present her research at the National Conference on Undergraduate Research to be hosted by MSU March 26-28 — a weekend that coincides with Montana's annual FFA convention in Great Falls, an important event for agriculture ambassadors. She plans to make room for both events.

"Natalie is that student, only once or twice in your entire faculty career, that you have a chance to watch grow as a person and an academic at every turn," said Perry Miller, one of Sturm's advisers. "It seems like yesterday when a brighteyed freshman cornered me after a lecture, asking questions about sustainable agriculture and literally abuzz with the unlimited potential of her degree."

For Sturm, who hopes to pursue a master's degree after she graduates in the spring, the same curiosity and drive sparked by that first middle school nutrition class burns just as brightly nearly a decade later.

"My time here has been a lesson in being open to things happening in ways that I didn't expect," she said. "It's been a lot of learning about how to be a problem solver and how to approach questions. I definitely have a much more refined understanding of agriculture now, but I feel really grateful that I still get to carry that initial passion for sustainable agriculture with me."



Doors Open at 9:00am

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Thursday Speaker:
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Difficult Harvest Creates Grain Storage Hazards

High-Moisture Grain Could Pose A Danger To Anyone Working Around It

By NDSU Ag Communication

Because of difficult harvest conditions last fall, grain may have been stored with higher than normal moisture content, which could pose a danger to anyone working around the grain.

"High-moisture grain storage leads to bin unloading problems," warns Ken Hellevang, North Dakota State University Extension agricultural engineer. "Grain may be in clumps due to high-moisture grain and foreign material being frozen together, or due to crusted grain flowing in chunks that block grain flow into the grain sump of the unloading system."

Warming the grain to just above freezing sometimes will enable the frozen grain to flow, he says. People also have used a variety of other methods to break up the clumps, such as a plumbing snake through the unloading tube, high-volume air pressure to the sump through a tube in the unloading tube, or a grain-vac and plumbing snake combination.

"Do not go into the bin without following safety procedures," he cautions.

Grain also can form columns along the bin wall or in other locations. These normally are broken loose with rods or bin unloading whip units from the bin roof. Poking at the grain while inside the bin may cause an avalanche that buries the person poking at the grain. The grain can flow with such force that it even will come through an open bin door and cover the person poking at the grain from outside the bin.

"Make sure everyone, including family and employees, working around stored grain understands the hazards and proper safety procedures," Hellevang says.

"Too many people ignore safety practices and suffer severe injury or death while working around grain," he adds. "They get trapped in grain or tangled in auger flighting

Grain Bin Dangers

Never enter a bin while unloading grain or to break up a grain bridge or chunks that may plug grain flow. Flowing grain will pull you into the grain mass, burying you within seconds. Unloading at 5,000 bushels per hour is moving almost 2 cubic feet of grain per second. A 2–foot-diameter by 6-foot cylinder has a volume of about 9 cubic feet, so a person can be completely engulfed in less than five seconds and would not be able to lift individual's feet in less than two seconds.

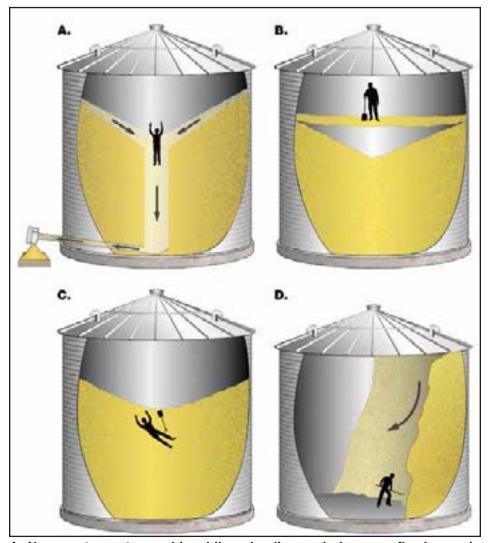
Stop the grain-conveying equipment and use the "lock-out/tag-out" procedures to secure it before entering the bin. Use a key-type padlock to lock the conveyor switch in the "off" position to assure that the equipment does not start automatically or someone does not start it accidentally.

Bridging occurs when grain is high in moisture content, moldy or in poor condition. The kernels stick together and form a crust. A cavity will form under the crust when grain is removed from the bin.

The crust isn't strong enough to support a person's weight, so anyone who walks on it will fall into the cavity and be buried under several feet of grain. Determine if the grain has a crust before any grain has been removed. If work needs to be done with a crust, it must be done before any grain is removed.

"To determine if the grain is bridged after unloading has started, look for a funnel shape on the surface of the grain mass," Hellevang advises. "If the grain surface appears undisturbed, the grain has bridged and a cavity has formed under the surface. Stay outside the bin and use a pole or other object to break the bridge loose."

If the grain flow stops when you're removing it from the bin but the grain surface has a funnel shape and shows some evidence that grain has been flowing into the auger, a chunk of spoiled grain probably is blocking the flow. Entering the



A: Never enter a storage bin while unloading grain because flowing grain can pull you in and bury you within seconds. B: Grain kernels may stick together, forming a crust or bridge that isn't strong enough to support a person's weight after the grain below it is removed. C: Don't try to break a grain bridge or blockage loose from inside the bin. D: Try to break up a vertical wall of grain from the top of the bin, not the bottom, because the grain can collapse and bury you. (Graphics courtesy of MidWest Plan Service, lowa State University)

bin to break up the blockage will expose you to being buried in grain and tangled in the auger.

If grain has formed a vertical wall, try to break it up from the top of the bin with a long pole on a rope or through a door with a long pole. A wall of grain can collapse, or avalanche, without warning, knocking you over and burying you.

Never enter a grain bin alone. Have at least two people at the bin to assist in case of problems. Use a safety harness and rope that prevents you from descending rapidly when entering a bin.

(continued on page 30)







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Grain Storage Hazards...

(continued from page 26)

"If you get partially submerged in flowing grain, the force pulling you in is several hundred pounds, far exceeding the ability for a person holding a rope to prevent engulfment," Hellevang says. "Again, never enter a bin with the unloading system running."

Rescuing a Trapped Person

If someone gets trapped:

- · Shut off all grain-moving equipment.
- Contact your local emergency rescue service or fire department.
- Ventilate the bin using the fan if temperatures are moderate. At cold temperatures, the trapped person faces the risk of hypothermia.



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- Cut holes in the bin sides to remove grain if the person is submerged. Use a scoop on a tractor, cutting torch, metal-cutting power saw or air chisel to cut V- or U-shaped holes equally spaced around the bin. Grain flowing from just one hole may injure the trapped person and cause the bin to collapse.
- Form a retaining wall around the person using a rescue tube or other material to keep grain from flowing toward the person, then remove grain from around the individual. Walking on the grain pushes more grain onto the trapped person.
- Don't try to pull a person out of grain. The grain exerts tremendous forces, so trying to pull someone out could damage the person's spinal column or cause other damage.

Other Dangers

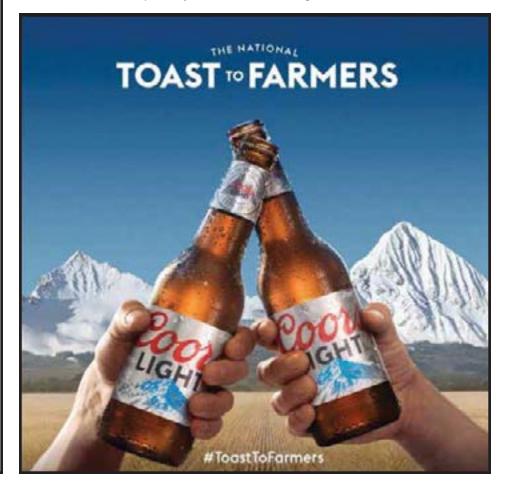
Getting tangled in the unloading sweep auger is another major hazard. Entanglement typically results in lost feet, hands, arms, legs and frequently death due to the severe damage.

Although you shouldn't enter a bin with an energized sweep auger, it may be necessary in some instances, Hellevang says. All sweep augers should have guards that protect against contact with moving parts at the top and back. The only unguarded portion of the sweep auger should be the front point of operation.

If someone must go into the bin, make sure to have a rescue-trained and equipped observer positioned outside the storage bin. Use a safety switch that will allow the auger to operate only while the worker is in contact with the switch.

Never use your hands or legs to manipulate the sweep auger while it's in operation. The auger should have a bin stop device that prevents the sweep auger from making uncontrolled rotations.

For more information, check out NDSU publication "Caught in the Grain!" It's available online at https://tinyurl.com/NDSU-CaughtinGrain.





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Prepare for Spring Calving

Minimize Calf Losses And Improve Performance

This newborn calving is resting on fresh straw bedding. (NDSU photo)



Planning and preparing for the calving season can help not only minimize calf losses but also improve calves' performance, according to North Dakota State University Extension livestock specialists.

The nutrition status of the calving herd is one issue to consider in preparing for the upcoming spring calving season.

"Although this should be an earlier concern, throughout the last trimester of the gestation, it is still possible to split the calving herd according to the

body condition of the females," says Yuri Montanholi, Extension beef cattle specialist.

"Females calving with poor body condition (lower than 4) may experience difficulty birthing calves, and they may produce lower colostrum quality, which may impact rebreeding," he notes. "In addition, calves may have low vigor that may delay nursing. Thus, a tiered nutritional management system may improve calf viability and reproductive ability."

Preparation of the calving facilities is another key issue for successful calving. "For producers who have their females in outdoor calving areas, it is important to ensure that portions of the area have protection from the wind," advises Karl Hoppe, Extension livestock systems specialist at NDSU's Carrington Research Extension Center. "Producers should be concerned with potential extreme weather conditions that could cause frostbite in newborn calves."

Producers who calve in the barn or uncovered pens must inspect and repair gates, pens, water supply, feeders, alleys and head catches. Barn or pen calving demands a substantial amount of straw for bedding. That's usually 5 - 7 lbs. per cow per day for adequate bedding. Continuously adding bedding is important to keep the calves clean and dry, which helps minimize issues with infections and impacts overall health.

Producers also should have an adequate stock of calving supplies, including plastic sleeves, lube, obstetrical chains or straps, calf-feeding bottles, halters and



ropes.

"For those who have a calf puller, make sure it is clean and working properly," Extension Veterinarian and Livestock Stewardship Specialist Gerald Stokka recommends.

Producers need to have an adequate supply of colostrum or colostrum replacements as well. "In situations where the quantity of colostrum is a concern, a colostrum bank or replacers should be used," Stokka says.

"Due to the practical limitations of harvesting colostrum in beef cows, colostrum replacer can be a good option," he adds. "Colostrum replacements and supplements are available for purchase. The replacements are much preferred as they contain significantly higher amounts of immunity than do the supplements."

Calves that nurse a limited amount or experience reduced absorption of passive immunity in colostrum are at a greater risk of illness and/or death.

Producers also should be prepared for problems during calving. Experienced producers may be able to correct abnormal calf presentations and assist the females during calf delivery. However, producers should be aware of their limitations and know when they should call their veterinarian to ensure the delivery and well-being of the cow and calf, Hoppe says.

"An uneventful crop of calves is something cow-calf producers are aiming for after a long winter season," Montanholi says. "Having a plan and preparing for the calving season will help result in a successful calving season."

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LOT INFORMATION

ProducerF	
Sex	Steers
Lot Number	110
Pen Number	NB
Kill Date	10/7/2019
% Prime	40.00%
% Choice	60.00%
% Yield Grade 4 & 5	0.00%
Premium	\$95.58

LOT INFORMATION

Producer	Rambur Char
Sex	Heifers
Lot Number	110
Pen Number	NB
Kill Date	9/30/2019
% Prime	30.95%
% Choice	61.90%
Premium	\$55.91

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Sidney Sugars Welcomes New Agriculturist: Timothy Cymbaluk

By Anna Dragseth

In Jan. 2020, Sidney Sugars Incorporated gained a new agriculturist! Timothy Cymbaluk comes from Crookston, MN, and recently graduated with a bachelor's degree in Crop and Weed Science from North Dakota State University in Dec. 2019.

Cymbaluk has always had a passion for working with sugar beets, so when he saw the position open for an agriculturist at Sidney Sugars, it was apparent to him that he should apply. "I have always wanted to work with sugar beets, and I saw that Sidney Sugars was looking for an agriculturalist, so I thought it would be a great opportunity."

Cymbaluk has an extensive background working with sugar beets. He started assisting with sugar beet research in high school as a student assistant at the University of Minnesota Crookston. Cymbaluk explained, "This job entailed collecting and entering data, plant disease root rating, identification, inoculation and observation, soil sampling, Aphanomyces Rhizoctonia Pythium and Fusarium culture work, and other lab and plot work. I worked underneath Dr. Ashok Chanda and Jason Brantner in Sugar Beet Plant Pathology. This job involved a lot of teamwork with our stand counts and preparing for field day. I acquired useful information, such as the use of proper ascetic techniques, disease identification, and ratings. I also established good communication with farmers, consultants, and agriculturalists when they came in to drop off samples."

He has not only worked for the University, but he has also worked for J.R. Simplot Company, which is one of the largest privately-held food and agribusiness companies in the nation. Here he applied and developed new skills as a crop advisor intern. "This past summer, I was a crop advisor intern, and through

this internship, I got to travel a little bit. This opportunity to travel really opened my eyes and kind of made me want to see more things and do some different things. This is what kind of influenced me to take the job position in Montana," said Cymbaluk.

With Cymbaluk's position as Sidney Sugar's agriculturist, he will be putting his skills to work by providing agronomic expertise to area growers in the production of a high-quality beet crop that will increase recoverable sugar per acre. He will also be involved with managing the Sidney and Culbertson factory yard harvest operations and beet storage. He will be responsible for managing harvest operations and beet storage for assigned areas along with managing grower relationships to attract and retain sugar beet growers.

When asked if he had any goals for the year, he responded that he hopes to get acquainted with all of the sugar beet growers in his area, and he is excited to meet new

Timothy Cymbaluk, new agriculturist at Sidney Sugars Inc. (Submitted photo)

people. Cymbaluk added, "I hope the background that I have will be helpful, and I hope to motivate and help growers produce a good crop."





2020 MT State **Hemp License Application Period Is Open**

Montana Department of Agriculture will accept hemp applications through April 30, 2020

Helena, MT – The Montana State Hemp Program is now accepting license applications for the 2020 growing season. The Indoor/Outdoor Hemp License Application is available on the Montana Department of Agriculture (MDA) website and is due by April 30.

In 2020, hemp growers can expect licensing procedures very similar to those that were in place in 2019. MDA will continue to operate its Montana State Hemp Program under authorities provided in the 2014 Farm Bill.

"Montana's hemp industry shows incredible potential," said MDA Director Ben Thomas. "I'm looking forward to another year of continued growth."

Hemp licenses are issued in two progressive stages: planting and production. First, the department issues a Planting License to approved applicants so they can purchase seed or live plants to plant or propagate hemp. A fee of \$850 is due with the initial application. Next, applicants are required to submit a Planting Report to confirm information about their hemp varieties and crops planted. Based on the four risk-based categories of hemp varieties (A, B, C, D) developed by the department, the level of review and frequency of crop testing are determined. If Category C varieties are planted, a \$250 fee for each variety is required along with planting reports to cover sampling costs. For hemp variety categories visit http://www. mtrules.org/gateway/RuleNo.asp?RN=4%2E19%2E108. The second stage, a Production License, is issued to successful applicants after Planting Reports are received so they may produce and harvest compliant hemp. Licenses are valid from the time of issuance until April 30, 2021.

Montana's hemp program grew significantly from 58 licensees in 2018 to nearly 300 in 2019. Acreage more than doubled in 2019 to over 50,000 acres, which makes Montana a leading state for hemp production. Questions about hemp licenses can be sent to hempinfo@mt.gov.

The Montana Department of Agriculture's mission is to protect producers and consumers, and to enhance and develop agriculture and allied industries. For more information on the Montana Department of Agriculture, visit agr.mt.gov.

LOCATION:

From Vida, MT-Location: From Circle, MT- Go 28 miles North on Hwy 13, turn East on Ballpark Road for 4.5 miles, turn North 1/4 mile

From Wolf Point, MT- Go 26 miles South on Hwy 13, turn East on Ballpark Road for 4.5 miles, turn North 1/2 mile. Roads will be marked.

OWNERS: Bruce and Connie Bogar 406-525-3476 or 406-698-9230 Lunch will be available.

FARM MACHINERY

- JD 7400 MFWD Tractor, power shift, 3 pt., dual PTO, quick hitch, 18 4x38 tires & JD 740 Front-end Loader wbucket & grappie, 8900 hours (nearly new) • JD Patet Forks
- JD 955 Utility Tractor, 3 pt., PTO, quick hitch, 244 hours & - JD 72 Selly Mover - JD 425 Selly Mover - JD 425 Ganten Tractor, 3 pt., 848 hours willion Mover - lot, 14* Offset Disc (nice)

- · JD 3 et 8' Disc
- 3D 3 pt. 14" Cultivator
 Gratiam Holme 3 pt. 9" Cultivator King Kutler 3 pt. 4" Box
- King Kutler 3 pt. 5' Rotary Tiller
 NH 3 pt. 7' Side-mower
 JD 16' Toolbar
 Cliver 14' Toolbar

- 3 pt. Boomless 300 Sprayer



HOUSEHOLD

- Whirlpool Upright Freezer (nearly new)
- Infrared 2-person Sauna Lazy Boy Rocker/Recliner wHeater & Vibrator (green)
- Misc Bookcases
- Lamps Desk Chair
- Handy Cart w/containers
 Small Entertainment
- Entertainment Center widoors
- Antique 4-drawer Dresser

AUCTIONEER'S NOTE: Bruce and Connie have retired, leased their farm, sold their homestead and will be moving to Billings. Bruce took great pride in taking care of his equipment. The farm machinery is in excellent

This will not be an ail day, so don't be late! Hope to see you on March 28th!



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- Electric Grinder wristand
 B&S Shp Motor wipump
- · (2) B&S Shp Motors • 10" Compound Miler Saw wistand
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 24' Aluminum Extension Ladder
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- . Bathery Charges
- · Skill Saw
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- + (2) Anvits, 1-large
- + Extension Cords
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- . Nuts. Bolts. Washers



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- Remington BDL 30-06 w/Scope &
- Wingmister model 70, 12-gauge w/Wood Stock
 Hy Hunter 22 Platol w/Holster
- High Standard 22 Platol witholster
 Swedish Mauser 6 5x55 Sporterized
- Single Shot 22 (used for bird shot)



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- Kawasaki 360 Prairie ATV



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· Wood Posts

· Post Hole Digge

· Msc. Steel Shelving

Honda 24 to Auger engine
 (3) Penol Grain Aerators

engine, electric start (tunk petiched)

Auger

• Msc. Streeter Shelving

· (2) 24.5 Wheels witnes

- Rot of Black Plastic Pipe

. (3) 22.5 Steel Wheels

JD 335 Sprayer will be Kohler

· (2) Barrel Dispenser Pumps

- Hydraulic Pump & Tank for Drag

. Low Pro 24.5 Truck Tires (used)

 JD 4640 Diesel Tractor, new tires. - ABU 32' plus 4' beavertail tandem

Barrett Aluminum 71/24" extra tall. gooseneck Stock Trailer (1-

rmanent gate & 1- ficater gate) I/ Windrell Tower (no fan)

 30' Donahue Implement Trade + 1981 Ford F150 Pickup, 4x4







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Deming Named Montana's Distinguished Finalists for 2020



Rebecca Deming, 17, Fairview, a member of Richland County 4-H and a senior at Fairview High School, started the project "Lettuce Eat", through which she prepared and served free summer meals twice a week for more than 40 children from her community; her efforts included spreading awareness of her cause, soliciting donations and prepping and serving each meal. Rebecca started this program to benefit local children who regularly receive free or reduced lunch during the school year.

The Prudential Spirit of Community Awards represents the United States' largest youth recognition program based solely on volunteer service. All public and private middle school level and high schools in the country as well as all Girl Scout councils, county 4-H organizations, American Red Cross chapters, YMCAs and Points of Light Global Network members, were eligible to select a student or member for a local Prudential Spirit of Community Award. This local honoree was then reviewed by an independent judging panel, which selected state honorees and distinguished finalists based on criteria including personal initiative, effort, impact and personal growth.

While in Washington, D.C., the 102 State Honorees-one middle level and one high school student from each state and the District of Columbia-will tour the capital's landmarks, meet top youth volunteers from other parts of the world, attend a gala awards ceremony at the Smithsonian's National Museum of Natural History and visit their congressional representatives on Capital Hill. On May 4, ten of the state honorees-five middle level and five high school students-will be named America's top youth volunteers of 2020. These national honorees will receive additional \$5,000 scholarships, gold medallions, crystal trophies and \$5,000 grants from Prudential for nonprofit charitable organizations of their choice.

Since the program began in 1995, more than 130,000 young volunteers have been honored at the local state and national level. The program also is conducted by Prudential subsidiaries in Japan, South Korea, Taiwan, Ireland, India, China and Brazil. In addition to granting its own awards, the Prudential Spirit of Community Awards program also distributes President's Volunteer Service Awards to qualifying local honorees.

For information on all of this year's Prudential Spirit of Community state honorees and distinguished finalists, visit http://spirit.prudential.com or www. nassp.org/spirit.

MHS Accepting Applications For Centennial Farm And Ranch Properties

The Montana Historical Society (MHS) is now accepting applications for the Centennial Farm and Ranch program. New inductees will receive a framed certificate signed by the governor, recognition at the "Ag Day" ceremony in the State Capitol during the 2021 legislative session, the ranch/farm history printed online and in our periodic Centennial Farm and Ranch yearbook, and a durable roadside sign. These 24" by 36" UV-coated metal signs are a new addition to the program this year, thanks to support from the Montana Department of Agriculture and the Donnelley Family Foundation.

Since 2009, the MHS

Centennial Farm and Ranch program has recognized the state's agricultural traditions by celebrating the perseverance and stewardship of Montana families on their farms and ranches. By honoring families that have owned their land for 100 years or more, we help preserve Montana's strong agricultural roots and the stories and traditions that define our rural communities.

Requirements for induction include:

- Must be a working farm or ranch with a minimum of 160 acres or if fewer than 160 acres, must have gross yearly income of at least \$1,000.
 - · One current owner

must be a Montana resident.

• Proof of founding date and continuous ownership by members of the same family beginning with the founder and concluding with the present owner, spanning minimally 100 years. Line of ownership may be through spouses, children, brothers, sisters, nephews, nieces, or adopted children. For homesteaded properties, ownership begins with claim filing date (not patent date).

Applications for this year's cycle will be accepted until Dec. 1. To download all requirements and the application, visit http://bit.ly/MTCFRapp.

Lower Yellowstone Irrigation Project Annual Meeting

The Lower Yellowstone Irrigation Project held its annual meeting on Feb. 14 at the Moose Lodge, Sidney. Project Director James Brower congratulated the workers on a great year and presented a slide show of the year's accomplishments. Pictured is emcee Richard Cayko (left) and his nephew Gunner Cayko (right), son of Terry Cayko, speaking from the perspective of an up and coming FFA member.







Our mission is to support agriculture with reliable, consistent credit. As a cooperative, our members benefit through patronage dividends and our support of rural communities.

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USDA Farm Service Agency Deadlines

Submitted by Tammy Lyseng

USDA Richland County Farm Service Agency (FSA) reminds agricultural producers of the following FSA dates and deadlines.

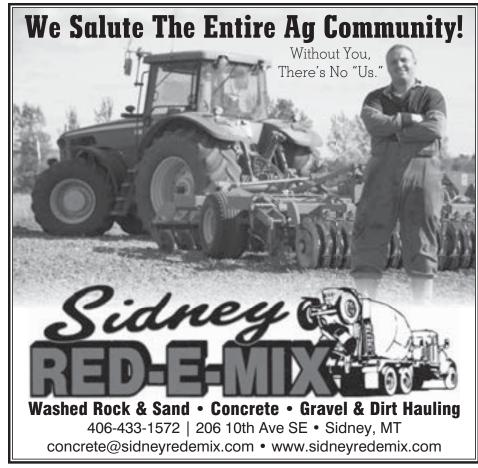
- March 16: Last day of 2019 Agricultural Risk Coverage Price Loss Coverage (ARC-PLC) Enrollment and Program Election Period
- March 16: 2020 NAP Coverage Application Closing Date for all Spring Crops except Spring-Seeded Canola, Rye, Speltz, Triticale, Wheat and Mixed Forage
- March 16: First day of 2020 CRP Spring Managed Grazing Period (prior approval required)
 - March 16: First day of CRP Grasslands Signup
- March 31: Last day to apply for a 2019 crop marketing assistance loan or LDP for harvested Barley, Canola, Crambe, Flaxseed, Honey, Oats, Rapeseed, Wheat and Sesame Seed

Visit FSA online at www.fsa.usda.gov/mt and/or www.farmers.gov and contact the local FSA office in Sidney at 406-433-2103 to signup and with any questions.













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Used Haying Equipment In Stock

2003 CaselH RB562, twine & mesh...... \$22,000

New Miscellaneous In Stock

Danuser Palet Forks - 48", 4000lb
Danuser Hydraulic Post Hole Digger & Augers
Danuser T3 Hydraulic Post Drivers
Rem VRX grain vac • Garfield 10' drag scraper
Danuser Hammer post pounder
Shulte FX1800 Rotary Mower • Parma 30' Land Plane

Miscellaneous Used Equipment

2013 Haybuster 2650 bale processor \$15,000
Brandt 5200EX Grain Vac
2013 Degelman model 46/5700, 14', hydraulic angle, mounts
for MX series Magnum tractors \$8.900

New Grabtech Skidsteer Grapple Buckets In Stock!

Phoenix Rotary Harrow 60', very nice condition, consigned ... \$20,000

Used Skid Steers

2014 Case SV250, cab, air, heat, 1800 hrs \$29,500 2015 TV380 Track Loader, 1400 Hrs, good condition... \$41,500



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