

Farm & Ranch Monthly Magazine

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July 2018

**Inside This
Edition:**

NDSU-WREC & MSU-EARC Field Days

Williston, ND & Sidney, MT

See Pages 8, 10 & 14

Local Student Qualifies To Compete At World's Largest Rodeo

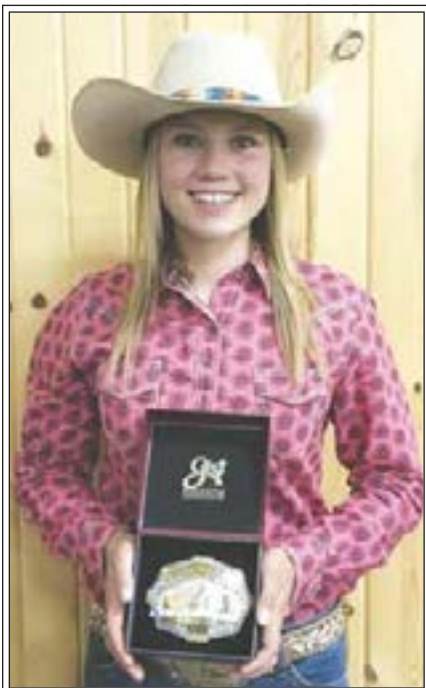
Trista Hovde, a 9th-grade student at Sidney High School has earned a position on the North Dakota state/provincial National High School rodeo team and will be traveling with fellow teammates to Rock Springs, Wyo., July 15-21 to compete at the 70th annual National High School Finals Rodeo (NHSFR) in the Barrel Racing competition.

Featuring more than 1,650 contestants from 43 states, five Canadian Provinces, Australia and Mexico, the NHSFR is the world's largest rodeo. In addition to competing for more than \$200,000 in prizes, NHSFR contestants will also be competing for more than \$350,000 in college scholarships and the chance to be named an NHSFR World Champion. To earn this title, contestants must finish in the top 20 – based on their combined times/scores in the first two rounds – to advance to Saturday evening's final round. World champions will then be determined based on their three-round combined times/scores.

Again this year, the Saturday championship performance will be televised nationally as a part of the Cinch High School Rodeo Tour telecast series on RFD-TV. Live broadcasts of each NHSFR performance will air online at www.RidePass.com. Performance times are 7 p.m. on July 15, and 9 a.m. and 7 p.m. each day thereafter.

Along with great rodeo competition and the chance to meet new friends from around the world, NHSFR contestants have the opportunity to enjoy shooting sports, volleyball, contestant dances, family-oriented activities, church services sponsored by the Fellowship of Christian Cowboys, and shopping at the NHSFR tradeshow.

To follow your local favorites at the NHSFR, visit NHSRA.com daily for complete results. For ticket information, visit www.SweetwaterEvents.com.



Wolf Point Wild Horse Stampede July 12 - 14

By Jaymi Loobey

Once again, the second weekend of July, the town of Wolf Point, situated on the beautiful Missouri river will explode. The Rodeo Committee and Stadium Committee are banding together to bring the Wolf Point Wild Horse Stampede to life. It will be held July 12-14 this year at the Marvin Brookman Stadium, 6265 Rodeo Rd in Wolf Point Montana.

The Wild Horse Stampede actually started out as a competition in 1920 for a few local cowboys and native Americans in roping and riding events. Now, 98 years later, it has evolved into 3 days of official PRCA rodeo events, an endurance run for humans, golf tournament, parade, art in the park and an open team roping event. About 200 of the world's best PRCA cowboys and cowgirls consistently come to compete on Brookman rodeo stock every year in the Wild Horse Stampede. Last year, it was estimated that 12,000 came to watch the three-day event. This is huge for Wolf Point and several local individuals flock to the fairgrounds to volunteer their time. There are several mundane jobs you would expect like mowing, spraying weeds, ordering the concession food and cleaning the area before the event. The stadium also is fixed up and painted but there's more that goes into it. In order for the Wild Horse Stampede to be sanctioned by the Professional Rodeo Cowboy's Association, several phone calls must be made and mountains of paperwork must be completed. During the rodeo alone, over a hundred volunteers are working in plain sight and behind the scenes to make this work.

I asked Rodeo Chairman Clint Long why he and the other volunteers continue to put this event on. He said, "I guess it is because we love our community and our rodeo, it is a heartfelt effort to do something that makes a difference in our community which supports the event wholeheartedly." He also said that all the class and family reunions in the area are timed to happen the same weekend as the Wild Horse Stampede. He said, "You see people that you get a chance to visit with once a year."

The ticket booth opens June 20 from 11 a.m. - 6 p.m. Monday - Friday and can be contacted at 406-653-1770. General Admission Advance tickets are \$15. At the gate, they are \$17. Buckaroo Advance tickets are \$20. At the gate, they are \$22. Kids 6 and under get in free to the rodeo. For more information visit the event's Facebook page or the Wolf Point Chamber of Commerce's website, www.wolfpointchamber.com, and click on the Wild Horse Stampede's icon.



JC DeSaver earns 78 points on Brookman Rodeo's Kicking Wing (photo by Jackie Jensen).

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We urge everyone to attend the annual field days on July 11 at the Williston Extension Center, July 12 at Nesson Valley & July 17 at the Eastern Ag Research Center.



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2018 MonDak Field Days Approaching



By Anna Dragseth

Williston, Sidney, and Froid have held annual Field Day Tours for many years to showcase their involvement and research with agriculture. The primary purpose of Field Days is to inform and make the public aware of what the research centers around the MonDak area are performing and accomplishing. It is now that time of year where research centers are planting seeds in the ground and getting ready to present new ideas and studies for the public to analyze.

The Williston Research Extension Center (WREC), located 4.5 miles west of Williston, will be hosting their annual Dryland Tour on Wednesday, July 11th. Registration will start at 3:00 p.m. and the tour will begin at 4:00 p.m. The tour will include NDSU Extension specialists and researchers discussing different topics such as the spring wheat breeding program, precision field management, intercropping chickpea and flax, pipeline reclamation project update, weed management update, and lawn/garden care. After the morning tours, there will be a steak dinner starting at 7:00 p.m. CDT.

The WREC will also be having a Nesson Valley Irrigation Tour that will take place Thursday, July 12th at 8:30 a.m. Nesson Valley is located 23 miles East of Williston on Highway 1804. This event will start with rolls and coffee in the morning and conclude with a hamburger lunch sponsored by area agribusinesses in the afternoon. Some topics that they will be discussing are an update on the spring wheat varietal, the importance of soil structure, intercropping comparisons for irrigated and dryland production, tree species that have adapted to the MonDak region, monitoring soil moisture, identifying weeds that are becoming a concern, and an update on their high tunnel research. For additional information, contact the WREC at (701) 774-4315.

The MSU Eastern Agricultural Research Center Irrigated Farm Field Day is scheduled for Tuesday, July 17th. It is located one mile North of Sidney. The event will start with coffee and rolls at 8:30 a.m. MDT (during registration) and the field tour

will begin at 9:00 a.m. There will be many featured speakers, and there will also be a lunch served after the tour of the research center. If you have any questions, call EARC at (406) 433-2208.

The USDA Agricultural Research Service's Northern Plains Ag Research Lab (NAPL) and Montana State University's Eastern Agricultural Research Center (EARC) will be combining their expertise for a joint Dryland Field Day. It is scheduled for Thursday, June 19th from 9:00 a.m. until 12:30 p.m. The purpose of combining both Field Days is to share their research with each other and local producers. Researchers will be discussing topics on drought impacts on grasshoppers, a new weed experiment, grazing cover crops, new CRP renovation, native planting study, pollinator strip and demonstration plots, soil acidification and Sidney Sugars lime giveaway program, disease issues in cereals and legumes, weed control strategies in organic chickpea production, and a study on cereal forage. The event will then conclude with a lunch sponsored by the Richland County Extension Service. For more information on both Field Days, call ARS at (406) 433-9427.

The Froid Research Farm Field Day will be held on Thursday, June 21st from 1:00 p.m. to 5:00 p.m. The Froid Research Farm can be found eight miles north of Culbertson on Montana Highway 16. There will be special topics that include dryland intercropping research, pocket gopher control, grazing cover crops, an update on wheat stem sawfly biocontrol, fusarium head blight and other fungal diseases in durum, subsurface irrigation project, and a talk on the CRP renovation study. The afternoon will conclude with a free steak supper provided by the Roosevelt and Sheridan County Conservation Districts.

All producers, industry representatives, extension educators, research staff, and anyone interested in learning about agricultural research in the MonDak area are encouraged to attend. Come out and see the impact scientific research conducted at local research labs has on modern agriculture!

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Friday, August 4th

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or to request an accommodation for a disability. Richland County Fairgrounds
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www.richlandcountyfairandrodeo.org

Welcome Everyone To The Williston Research Center's Field Day!

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Tentative Schedule For The MSU-EARC/ Extension 38th Annual Field Day, July 17th

8:00am Refreshments

9:00am..... Welcome – Dr. Chengci Chen, MSU-EARC Superintendent
Tour Begins

9:15am..... Dr. Chengci Chen: Mung and Adzuki Bean for Eastern Montana
Irrigated System.

Dr. Chen is a Research Agronomist at MSU-EARC who has the expertise in pulse crop variety evaluation and production technology. He will present the potential mung bean and adzuki bean cultivars for eastern Montana irrigated production system. He will also discuss about utilization and market of the mung bean and adzuki bean, the fertility and weed control issues, including herbicide application.

9:30am..... Dr. Aziz Nilahyane: Tillage and Nitrogen Affecting Sugarbeet
Growth, Yield, and Quality.

Dr. Nilahyane is a Postdoc Research Associate at MSU-EARC, who is conducting sugarbeet tillage and nitrogen research. He will present the performance of sugarbeet crop under no-till, strip tillage, and conventional tillage. He will also demonstrate the remote sensing technology for in-season nitrogen monitor, and potential to use NDVI for sugarbeet yield estimation.

9:45am..... Dr. Yesuf Mohammed: Pea, Lentil, Chickpea, and Faba Bean
Variety Evaluation and Production Issues under Irrigation.

Dr. Mohammed is a Research Scientist at MSU-EARC working on pulse crop variety evaluation and agronomy. He will present varietal performance and production issues of pea, lentil, chickpea, and faba bean under irrigation.

10:00am..... Dr. Luther Talbert: Spring Wheat Breeding Challenges and
Opportunities.

Dr. Talbert is the Spring Wheat Breeder at MSU-Bozeman. He will talk to audience about the challenges and opportunities of spring wheat breeding, and the performance of the newly released spring wheat varieties.

10:15am..... Dr. Jamie Sherman: Improving Barley for Montana.

Dr. Jamie Sherman is the Barley Breeder at MSU-Bozeman. She will present to the audience the new improvement of barley varieties for malting and livestock feed, as well as the hullless barley for human consumption.

10:30am..... Dr. Mike Giroux: Durum Breeding and Low Cadmium Durum
Varieties.

Dr. Mike Giroux is the Department Head and Plant Geneticist at MSU-Bozeman. He will update with the audience the durum breeding program in Bozeman and the low cadmium durum varieties and breeding lines.

10:45am..... Dr. Frankie Crutcher: A Fusarium Head Blight
Nursery to Screen Varietal Resistance and Fungicide Efficacy.

Dr. Crutcher is the Plant Pathologist at MSU-EARC. She will present to the audience her Fusarium Head Blight Nursery, and the potential resistant wheat, barley, and durum cultivars and the efficacy of fungicides in controlling Fusarium head blight.

11:00am..... Travel to east side of the field

11:15am..... Dr. Frankie Crutcher: Use of Seed and Foliar Fungicide
Treatments for Control of Rhizoctonia Root Rot of Sugarbeet.

Dr. Crutcher is the Plant Pathologist at MSU-EARC. She will demonstrate the efficacy of seed and foliar application of fungicides in controlling Rhizotonia root rot in sugarbeet.

11:30am..... Mr. Duane Peters and Ms. Vanessa Pooch:

Update of Sugarbeet Industry and Current Production Issues.

Mr. Peters is the Agriculture Manager at Sidney Sugars, Inc. He will update with the audience the current sugarbeet crops in the region and sugar industry in general. He will also discuss with the audience about the current challenges and opportunities the growers are facing regarding the sugarbeet production. Vanessa will provide information about utilizing the spent lime.

11:45am..... Dr. Chengci Chen and Mr. Tim Fine: Soil Crusting,
Acidification, Organic Matter Degradation Issues and Potential Benefits
of No-till Sugarbeet.

Long-term tillage has resulted in soil organic matter degradation, soil erosion, and breakdown of water-stable soil aggregates which resulted in soil surface crusting. Loss of organic matter and excessive application of nitrogen fertilizer also resulted in soil acidification. Chengci Chen and Tim Fine will talk about the soil quality issues and potential benefits of no-till sugarbeet. Chengci Chen will also discuss about weed management and other challenges in no-till sugarbeet; Tim Fine will talk about testing soil acidity.

12:25pm..... Dr. Bart Stevens: Sugarbeet Tillage Systems

Dr. Bart Stevens is the Research Leader and Research Agronomist at USDA-ARS NPARRL. He will update with the audience the tillage systems in the irrigated Cropping Systems study.

1:00pm..... Lunch

Dr. Darrin Boss, Department Head of Research Centers Department will update the Research Centers Department and Montana Agricultural Experiment Station.

2:00pm Field Day Program Adjourned

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Williston Research Extension Center and MonDak Ag Showcase Field Days Set

The North Dakota State University Williston Research Extension Center (WREC) will showcase dryland agronomy and horticulture at its annual field day July 11 and host an irrigation field day July 12.

The WREC is 4.5 miles west of Williston on U.S. Highway 2.

The July 11 event begins with registration at 3 p.m.

CDT. The dryland crop tour starts at 4 p.m.

Topics to be highlighted during the dryland crop tour are:

- Spring wheat breeding program
- Precision field management
- Unmanned aerial vehicle use in agricultural imagery
- Intercropping chickpea and flax
- Pipeline reclamation project update
- * Plant pathology and weed management research

The dryland program is eligible for 1.0 Montana pesticide applicator credit and 1.5 certified crop adviser continuing education units.

A concurrent horticulture program starts at 4 p.m. in the Ernie French Center for those interested in flowers, gardening and fruit production.

Topics include an update of North Dakota fruit production, flowers and vegetable varieties for home gardens and WREC horticultural research.

A free steak dinner, sponsored by area businesses, will follow the tour at 7 p.m.

The irrigation field day on July 12 will be held at the NDSU Irrigated Nesson Research and Development Farm 23 miles east of Williston on North Dakota Highway 1804.

Refreshments will be served starting at 8:30 a.m., and the irrigated crop tour will begin at 9 a.m., with NDSU research and Extension specialists presenting highlights from experiments conducted at the Nesson Valley site.

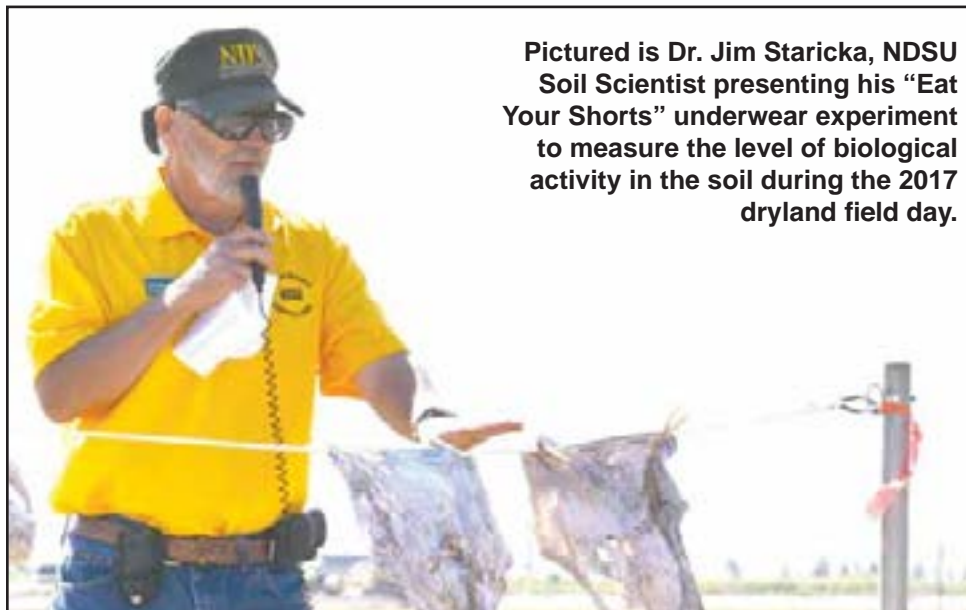
Topics are:

- WREC irrigation research and information on variety trials conducted under irrigation
- High-tunnel research update
- Spring wheat breeding program
- * Soil health in irrigated systems
- Intercropping in irrigated production
- Western tree trial update for the MonDak region
- Soil moisture monitoring
- Emerging weed issues

The irrigation field day will conclude with a noon luncheon sponsored by area businesses.

For more information, contact the WREC at 701-774-4315.

Individuals with disabilities may request reasonable accommodations to participate in ND-SU-sponsored programs and events. To request accommodations; contact the WREC by July 8.



Pictured is Dr. Jim Staricka, NDSU Soil Scientist presenting his "Eat Your Shorts" underwear experiment to measure the level of biological activity in the soil during the 2017 dryland field day.



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NDSU WREC Dryland Field Days

NDSU Spring Wheat Breeding Program

Williston Field Days July 11-12, 2018

By Anna Dragseth

At the NDSU Williston Research Extension Center Dryland Field Day, Dr. Andrew Green will be talking about variety testing that was performed in 2017, as well as how the season has been going so far for 2018. “I will highlight some specific varieties that seem to be a good fit in the Williston (Northwest), North Dakota area,” explained Green.

Green is the NDSU Spring wheat breeder, and an Assistant Professor in the Department of Plant Sciences at NDSU. Prior to coming to NDSU, he performed graduate work in the wheat breeding programs at Virginia Tech and Kansas State. His research has an applied focus in developing wheat varieties for North Dakota and the surrounding region. His research interests include developing breeding techniques for selection of high-end use quality in early generation selection nurseries, experimental design of research and breeding trials, and the introduction of durable resistance genes into new varieties.

“I am only the fifth NDSU spring wheat breeder. L.R. Waldron was the first NDSU spring wheat breeder beginning in 1916, and I took over 100 years later, in June of 2016,” said Green.

NDSU spring wheat varieties have historically been planted on a large share of wheat acres in North Dakota and the surrounding region. Green said, “Our lines are used as breeding parents by other programs in the region.” The variety testing that NDSU conducts is also an important source of unbiased data for variety selection decisions.

“We recently overhauled our data collection, storage, and analysis process with a lot of help from others in the Department of Plant Sciences. We now collect almost all data electronically, and our data is stored in a relational database. This allows us to make decisions more quickly and accurately, as well as increasing efficiency in the program. Another highlight is our recent release of ND VitPro, a wheat variety that showed yields similar to Barlow in western North Dakota, but with higher protein, and better resistance to rusts and Fusarium head blight,” explained Green.

The primary goal of the NDSU spring wheat-breeding program is to produce high yielding varieties with genetic resistance to economically important diseases, and strong end-use quality. Other crucial attributes that they are selecting for is straw strength and shorter plant height. Green said, “We also recently began deriving new lines for testing in western locations. We believe that if we select new lines in the west, they will perform better in this environment.”



Dr. Andrew Green will be talking about variety testing that was performed in 2017, as well as how the season has been going so far for 2018.



Last year's Spring Wheat crop.



This year's Spring Wheat crop in progress.

FARM AUCTION

SATURDAY, JULY 14, 2018 ★ 11:00 A.M.

LOCATION: From Circle, MT – Take Highway 200 W (toward Jordan) for 22.3 miles
OWNERS: WAYNE & SHEENA HINNALAND 406-974-2132 ★ Lunch will be available.

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- JD 4840 Tractor, 3 pt., PTO, 8,000 hours
- JD 4840 Tractor, 3 pt., PTO w/ JD 168 Loader
- JD 7710 MFWD Tractor, 3 pt., PTO, 10,000 hours w/JD 740 Classic Front-end Loader w/bucket & grapple
- JD 2010 gas Tractor, 3 pt., PTO w/Dual Loader
- (4) JD 10' Hoe Drills, model 9450 12" spacing, solid packers w/JD transport
- Conveyall 20' 2-tank hydraulic Drill Fill w/hydraulic augers
- JD 24' Tandem Disc (disc's like new)
- 2006 New Holland TV145 Bi-Directional 16' Swather, 6,500 hours
- New Holland HS Series 16' Auger Header (fits the TV145)
- New Holland 9030 Bi-Directional, good tires, loader & grapple, 10,000 hours
- New Holland 1116 Auger Header (fits 9030)
- Honeybee 25' Header, triple delivery (fits the 9030)
- 2009 Case IH SCX100 Swing Tongue 16' Swather
- (2) JD 1600A Swing Tongue 16' Swathers
- JD 567 Big Round Baler, mega wide pickup attach., twine wrap, 12,000 bales
- (2) JD 566 Big Round Balers, twine wrap (1-w/ 12,000 bales & 1-w/ 20,000 bales)
- Tonutti V-12 Hay Rake w/hydraulic lift & fold-out
- Farm King 2450 Hay Hiker, 14- bales

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- 2007 Yamaha Rhino, cab
- Lind 10' Crowding Tub & 20' Alleyway
- T&S Trip Hopper Range Feeder w/top
- Summers 1,000-gallon Poly Tank (used to haul water)
- (7) Cement Feed Bunks
- Heavy Duty Bale Feeder
- Ritchie Waterer

AUCTIONEER'S NOTE:

Wayne has decided to liquidate all his equipment. All his machinery is field ready. There will be no small items at this sale, so please be on time. We hope to see you July 14, 2018! ~Rick

TRUCKS, PICKUPS & TRAILERS

- 2005 Kenworth T800 Truck, CAT C15 engine, 10-speed (nearly new tires)
- 2012 Chevy Silverado 1500 Pickup, 4x4, auto, 124,000 miles
- 1993 Ford F-150 Pickup, 2x4, 6-cylinder, 100,000 miles
- 1991 Ford F-250 diesel Pickup, 4x4, 5-speed manual transmission
- 1985 Ford Supercab Pickup, 4x4, auto
- 1982 Chevy Pickup, 4x4, 4-speed
- 1996 Wilson 48' Cattle Pot Trailer, air ride
- 1960 Wilson 36' Flatbed Trailer
- 1982 Wilson 45' Hopper Bottom Trailer (will be sold w/the 1985 Wilson Pup Trailer & Separately)
- 1985 Wilson Hopper Bottom Pup Trailer w/roll tarp
- 1998 Great Dane 48' Hay Trailer w/4' extension, air ride, hauls 30 bales (will be sold w/the 1991 Dynaweld 30' Pup Flatbed Trailer & Separately)
- 1991 Dynaweld 30' Pup Flatbed Trailer (hauls 18 bales)
- 2010 Aluminum Duralite 20' Gooseneck Stock Trailer
- Holden 26' Gooseneck Tandem Axle Dually Trailer w/4' beavertail
- 4x8 Utility Trailer

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NDSU WREC Dryland Field Days

Gautam Pradhan to Speak at WREC Dryland Field Day

Williston Field Days July 11-12, 2018

By Anna Dragseth

Gautam Pradhan, Williston Research Extension Center's Dryland Research Agronomist, will be speaking at 6:20 p.m. at WREC's Dryland Field Day on Wednesday, July 11th. He will be sharing information from his research on Unmanned Aerial



Vehicles in crop production and also details on how they can be used for precision field management.

The project Pradhan will be speaking on will determine the applicability of Unmanned Aerial Systems (UAS) based high throughput phenotyping in the identification of drought tolerant cereal genotypes. "We anticipate a positive result, which will increase selection efficiency and expedite the development of high yielding drought tolerant cereal varieties for dryland farming. The ultimate result will be an enhanced yield and the farm income of ND producers," explained Pradhan.

In North Dakota, about 99% of field crops are non-irrigated, and drought is the single most crucial abiotic factor affecting yield and quality of dryland crops. Therefore, it is imperative to develop technologies/strategies that decrease effects of drought on crop performance and yield.

The development of tolerant varieties is one of the most efficient approaches

to mitigate the impact of drought stress. Pradhan said, "Plant physiological traits such as the normalized difference vegetation index (NDVI), normalized difference red edge (NDRE), and canopy temperature (CT) are directly related to crop growth and yield; a stress tolerant crop usually has higher NDVI/NDRE and low CT as compared to a susceptible crop. These traits, along with plant height and green area index, when frequently measured during the growing season, may help in the identification of high yielding drought tolerant genotypes from standing crops. These traits are time sensitive; for example, the CT of a plant in the morning will be entirely different than in the afternoon. However, the collection of these data manually from thousands of plots requires a tremendous amount of time and labor, and breeders are not using these traits in genotype selection. Thus, to identify drought tolerant genotypes rapidly and accurately from standing crops, there is a need of an application of PRECISION AGRICULTURE, i.e., an application of high throughput phenotyping system comprised of geographic information systems, remote sensing, and geographic positioning system, which enable the measurement of physiological/canopy data from thousands of plots quickly (within minutes), frequently (6-7 times during the growing season), and accurately (georeferenced)."

Pradhan explained, "In this project, we will be flying an unmanned aerial vehicle (drone) with sensors to collect data on traits. The data will be correlated with growth and yield components and help breeders to develop high yielding drought tolerant genotype of spring wheat, barley, and durum."

The long-term goal of this project is to provide selection tools to cereal breeders that aid in the rapid development of drought-tolerant varieties. "The specific objective is to evaluate the usefulness of high-resolution geo-tagged data from multispectral, thermal, and RGB imageries sensors for quantifying: plant stand, plant health (NDVI/NDRE, Green Area Index, and CT), plant height, and heading date of barley, spring wheat, and durum wheat genotypes on breeders' nurseries," said Pradhan.



Gautam Pradhan, WREC's Dryland Research Agronomist, will be speaking at 6:20 p.m. on Wednesday, July 11th about his research on UAVs in crop production and how they can be used for precision field management.

Upcoming USDA Farm Service Agency Deadlines for Farmers and Ranchers

In order to comply with FSA program eligibility requirements, all producers, including livestock producers, are encouraged to visit their local FSA office to file an accurate crop certification report by the applicable deadline.

The 2018 Acreage Reporting/Crop Certification Deadline is Mon., July 16, 2018 for Spring Seeded Alfalfa Seed, Forage Seeding, Conservation Reserve Program (CRP), Fruit (except cherries), Vegetables, Christmas Trees, and all Spring-Seeded Crops and any other crops not required to be reported by previously announced deadlines.

Producers with losses caused by flooding or other natural disasters, are reminded to timely report losses to the local FSA office.

Other upcoming FSA deadlines include:

- Now through August 1, 2018: 2018 Agriculture Risk Coverage (ARC) & Price Loss Coverage (PLC) annual signup period
- Now through August 1, 2018: Open Nomination Period for the 2018 FSA County Committee Election
- Now through and Aug. 17, 2018: Continuous Conservation Reserve Program (CRP) Signup Period and 1-year Extensions on contracts expiring Sept. 30, 2018
- Now through Oct. 1, 2018: 2019 Noninsured Crop Disaster Assistance Program (NAP) Application Closing Date for Annual Fall-Seeded Crops, Perennial Forage and Grazing, Mixed Forage Crops (including spring seeded annual types of missed forage), Rye, Speltz, Triticale, Wheat and Garlic
 - May 15 to July 15: Montana Primary Nesting Season
 - July 16: 2018 CRP Summer/Fall Grazing Period Begins (with prior written approval)
 - July 16: 2018 CRP Managed Harvesting Period Begins (with prior written approval)

For more information, call or visit your local FSA office at 433-2103, ext. 2 in Sidney.



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WILLISTON RESEARCH EXTENSION CENTER FIELD DAYS WEDNESDAY, JULY 11TH

Annual Field Day for the Williston Research Extension Center
Wednesday, July 11, 2018. Registration begins at 3:00 pm

Free steak dinner at
7:00 pm

The public is cordially
invited to attend all
Field Day activities.

Location:
14120 Highway 2
4.5 miles west of Williston

Dryland agronomy and horticulture tours start at 4:00 pm. NDSU Research and Extension Specialists and Scientists will discuss:

- Spring wheat breeding program
- Precision field management
- UAV use in ag and aerial imagery
- Intercropping chickpea and flax
- Pipeline reclamation project update
- Plant pathology and weed management research
- ND Fruit production update
- Flowers and vegetable varieties for home gardeners

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MSU-EARC/Extension Field Days In Sidney, MT

MSU Spring Wheat Breeding Program To Be Discussed At Sidney Field Day

By Anna Dragseth

Dr. Luther Talbert, Montana State University (MSU) wheat breeder/researcher, will be discussing spring wheat breeding challenges and opportunities at the EARC/MSU Extension Field Day on Tuesday, July 17th. "I will talk about developing spring wheat varieties for Montana, especially as related to climate challenges we will continue to face," said Talbert.

The MSU spring wheat-breeding program has developed several varieties that are widely grown in Montana such as Vida, Duclair, and Lanning. "Lanning has had high yield potential under hot dry summer conditions, and has stronger gluten than the popular variety, Vida," said Talbert. Vida is a high yielding hard red spring wheat that was released in 2005 by MSU. It shows high yield potential and good milling and baking quality. Vida is one

of the top-selling spring wheat varieties in Montana. Vida shows moderate resistance to leaf & stripe rust. Duclair is derived from a cross of Choteau//Reeder/Scholar varieties. Duclair is a solid stem semidwarf hard red spring wheat with white awns and glumes. "Vida has been the most widely grown variety in the state for the past several years, and Duclair is the most widely grown solid-stemmed variety. Solid stems are used for wheat stem sawfly resistance," explained Talbert.

The primary goal for the program is to provide new varieties with high yield, resistance to prevalent pests (such as the wheat stem sawfly), and high-end use quality.

Dr. Talbert noted that this is an important topic because new varieties with resistance to common insects and pests that have adapted to our climate will help ensure sustainability of wheat production in Montana.



Durum Breeding And Low Cadmium Durum

By Anna Dragseth

At the EARC/MSU Extension Field Day, Dr. Mike Giroux will be speaking on durum and low cadmium durum around 1 p.m. MST on Tuesday, July 17th. Dr. Giroux is a Professor of Wheat Genetics and Interim Department Head of the Department of Plant Sciences and Plant Pathology at Montana State University in Bozeman, Montana. Giroux earned a Ph.D. in Plant Genetics from the University of Florida where he studied genes limiting cornstarch biosynthesis and agronomic yield. Giroux's current research focuses on developing durum wheat varieties adapted to Montana and on genes essential to wheat agronomic yield and product quality.

The topic Giroux will be speaking on is an important topic because durum is an essential crop to Montana farmers. The release of high yielding durum varieties with high product quality is of direct economic importance to producers.

MSU is carrying out a durum-breeding program by crossing among several different germplasm sources. The source materials include current locally adapted durum varieties, durum varieties containing value-added traits, and lines we have in development. The lines are selected for yield, major agronomic traits, seed color, disease resistance, protein strength, as well as pasta firmness and color stability. "The Bozeman based breeding efforts are relatively new, and lines from this program in the intrastate are just in their second year. Based on last year's data, several of the lines are yield competitive with current cultivars as well as carrying one or two additional traits. The added traits in some of the advanced selections are the low cadmium trait in which harvested seed is lower in cadmium content and a gene that confers increased pasta firmness," explained Giroux.

MSU researchers/agronomists are also researching ways to increase durum yield by modifying plant height and tillage capacity. One of their current projects involves testing semi-dwarf wheat that is taller and with greater yield capacity than current semi-dwarf durum wheat which is often too short for Montana dryland areas.

The primary goal for the durum-breeding program is to achieve high yielding, disease resistant, locally adapted durum varieties with good end product quality. "We are focused on integrating value-added traits such as increased pasta firmness and color stability in new varieties," said Giroux.

Dryland Field Day



The joint federal and state Sidney ARS / EARC Field Day was held Tuesday, June 19 in Sidney. Area producers learned about dryland agricultural research being done in this region including work on intercropping, renovating CRP monocultures, new cereal livestock forages, soil acidification and remediation, as well as training in vertebrate pest control, grazing cover crop mixes, and more. Left: Dave Branson, research entomologist, speaks about drought and grasshoppers.

USDA Reopens Application Period for Producers Recovering from Cattle Loss, Other Disasters

Signup Began June 4 for Livestock Indemnity Program and Emergency Assistance for Livestock, Honey Bees, and Farm-raised Fish

The U.S. Department of Agriculture (USDA) has begun accepting disaster assistance program applications since June 4 from agricultural producers who suffered livestock, honeybees, farm-raised fish and other losses due to natural disasters.

USDA's Farm Service Agency (FSA) has reopened the application period for two disaster assistance programs in response to statutory changes made by Congress earlier this year.

"When disasters hit, help is as close as your USDA service center," said Bill Northey, Under Secretary for Farm Production and Conservation. "After any catastrophic event, an eligible producer can walk into any one of our local offices and apply for help."

Since June 4, FSA has accepted new applications for losses for calendar year of 2017 or 2018 filed under the Livestock Indemnity Program (LIP) or Emergency Assistance for Livestock, Honey Bees, and Farm-raised Fish Program (ELAP). Producers who already submitted applications and received decisions on their applications for these years do not need to file again, but they can reapply if they have additional losses or their application was disapproved because it was filed late.

In February, Congress passed the Bipartisan Budget Act of 2018, which made several changes to these two disaster programs, including:

Removing ELAP's \$20 million fiscal year funding cap, enabling FSA to pay producers' 2017 applications in full and their 2018 applications as soon as they are approved.

Removing the per-person and legal entity annual program payment limitation of \$125,000 for LIP for 2017 and future years. (The income limitation applies as it did before, meaning producers with an adjusted gross income of more than \$900,000 are not eligible.)

Changing LIP to allow producers to receive a payment for injured livestock that are sold for a reduced price due to an eligible event. Previously, the program only covered financial loss for livestock death above normal mortality.

Producers interested in LIP or ELAP should contact their local USDA service center. To apply, producers will need to provide verifiable and reliable production records and other information about their operation.

Drought, wildfires and other disasters continue to impact farmers and ranchers, and LIP and ELAP are two of many programs available through USDA to help producers recover. Learn more at <https://www.usda.gov/disaster>.

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Young Farmers And Ranchers Ag Tour Held in Richland County

By Jordan Hall

The Montana Farm Bureau hosted the Young Farmers and Ranchers Ag Tour on June 1-2 in the Richland County area. Taking a tour of local points of agricultural significance, a group from around the region learned more about local food and natural resource production and consumption.

The Roundup spoke to the Montana Farm Bureau Director of Membership Relations, Sue Ann Streufert, who also serves as the Young Farmer and Rancher Coordinator, about the importance of the event.

Streufert said, "The purpose of the tour is to create opportunities for our young producers to learn about opportunities in Montana. We want our members to be informed about different opportunities in different parts of the state, and this is an important part of that process."

Using a yellow school bus from the Sidney School District, the group of about fifteen attendees toured the Lower Yellowstone Intake Diversion Dam, Eastern Ag Research Station, Sidney Sugars beet factory, Meadowlark Brewery and Safflower Technologies. The group also received a tour of the Steinbeisser farm and ranch, hosted by Don Steinbeisser, Jr., and made other stops along the tour route to learn about agricultural production.

Visiting the places where local agriculture is produced or consumed wasn't the only purpose of the tour, however.

Streufert told The Roundup, "Networking is a big piece of this. We want to create networking opportunities for young people in agriculture."

She continued, "Honestly, it's important to just talk about those challenges. It's an opportunity to get together with other people in agriculture, so it's a two sided purpose, both education and networking. Producers, especially young producers, need to have and build relationships that can help them in the future."

Starting at 3 p.m. on Friday and going to about 3 p.m. on Saturday, the tour organizers were sensitive to the busy schedules of the young people attending.



James Brower, Manager of the Lower Yellowstone Irrigation Project, explains to the ag tour group the technology behind the diversion dam. (Photo by Jordan Hall)

Streufert said, "It was pretty short and sweet, but we packed a lot into the agenda."

The majority of the fifteen or so attendees were local to Richland County, but others were present from Miles City, Circle, and as far as Shawmut, Montana. The North Dakota Farm Bureau Young Farmer and Rancher chair, Brandon Lindstrom, also attended the event in order to learn more about neighboring production.

Along with Sue Ann Streufert, the tour was organized by Gil Gasper from Circle, Ben Johnson of Sidney, and a committee of volunteers who did most of the organizing regarding tour stops.

Ag Appreciation Golf Tourney July 9



2017 1st place team L to R- Shawn Larson, Trent Panasuk, Luke Mahlen, Ron Shens.

On Monday, July 9, the Sidney Area Chamber of Commerce and Agriculture will host the Annual Ag Appreciation Golf Tournament at the Sidney Country Club. Golfer check-in and breakfast starts at 7 a.m. and play begins at 9 a.m. with a scramble start and ends with awards at 4 p.m.

For the 19th year, the tournament pairs businesses with farmers and ranchers for a day of fun and golf. Farmers and ranchers participate for free and businesses that sponsor the tournament, a team, or a hole, play a round with producers. Available Ag Appreciation Golf Tournament sponsorships include Partnership Sponsor (\$1,000), Team Sponsor (\$200), Hole Sponsor (\$150), and Prize Donor. All sponsors receive lunch, name recognition on signage and event marketing.

The Ag Appreciation Golf Tournament is limited to 30 teams reserved on a first-come first-served basis. Producers register by submitting the slip found in their LYREC statements, visiting sidneymt.com, calling the chamber at 406-433-1916, or e-mailing admin@sidneymt.com the following information: Name, phone number, golfing average (if possible), and if you will bring your golf cart. Golfers must be 21 years old or better and involved in agriculture to play in the tournament.

STAMPEDE

By Jerry Palen



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Prairie Fare: Weeds: If You Can't Beat Them, Can You Eat Them?

Some weeds are edible and can provide vitamins and minerals.

By Julie Garden-Robinson, Food and Nutrition Specialist
NDSU Extension Service

My flowers and vegetables are growing nicely with the regular rain.

The weeds are doing well, too, so I needed to clean up my gardens recently. I pulled weed after weed that had sprouted in my planters, raised garden beds and ground-level garden patch.

These opportunistic green invaders were hiding under flowers and foliage and in the crevices by the raised beds. Why didn't all my plants grow as well as the weeds?

I tried to make it fun by playing "name that weed." No, that wasn't a fun game at all. I needed a reference book or a weed scientist for consultation.

Years ago, when I was an undergraduate student, I worked as an assistant to graduate students doing their master's and doctoral degrees in weed science. Weeds, after all, can reduce crop yield and profitability, so research continues on the best way to manage them.

The graduate students quizzed us assistants on weed identification as we counted green foxtail and put tiny straws by kochia under towering sunflowers. We pulled purslane, quackgrass and redroot pigweed.

After days spent counting and pulling weeds, I dreamed about weeds. Maybe those were nightmares.

As I continued to plunder the weeds in my gardens this week, two rabbits looked at me through the fence from my neighbor's yard. I pondered training the rampant rabbit population to eat weeds instead of my petunias, pansies and impatiens.

Fortunately, my backyard gardens are guarded from rabbits by three dachshunds.

Despite my early work doing fieldwork, I did not change my major to become a weed scientist. Therefore, I decided to consult a former weed specialist, Chris Boerboom, who also happens to be our retiring Extension director.

In other words, if I misquote him, I'm probably off the hook. He will be busy packing up his office for his next adventure, where people get to sleep in, go fishing on a whim or pick tender lettuce in their garden any time during the day.

What is a weed, anyway?

According to Chris, "A weed is a plant out of place. Kochia in a wheat field is definitely a weed. Corn is a weed in a field of soybeans. A dandelion is a weed in lawns, but you may grow it as an herb. Personally, I like the tang of a bite of red sorrel, but it is a weed in a field. It all depends on context."

Dandelions, by the way, can be used raw or cooked all the way from their roots to their blossoms. They also can be fermented to make wine.

I asked Chris some additional questions about edible weeds.

"Lambsquarters, purslane, burdock roots, chicory roots and dandelions are a few weeds on the edible list," he noted. "Remember that some weeds are toxic, such as nightshades (fruits) and hemlock. Of course, others, including poison ivy, can cause skin reactions."

Nutrition is my area, so I know that weeds can provide vitamins A and C and some minerals, including potassium.

If you are an aspiring gardener, follow Chris' advice: "Never let weeds go to seed. Don't forget about weeding after you have picked the last string bean or cucumber. The last weeds in a garden will still make a crop of seeds for the next year.

"You might also try using a mulch to keep annual weeds from establishing," he added. "If small seedlings can't get light, they'll die a quick death."

As a food and nutrition specialist, I'll add a few more safety tips:

Be sure that you can identify the weeds, and that might mean investing in a



Weeds are taking advantage of recent rain and warm weather. (Photo courtesy of summa at Pixabay)

book or finding a credible source online.

Know that sometimes the roots or leaves are edible, and other times, the seeds are edible.

Avoid weeds that have been sprayed with pesticides or other chemicals. Don't pick edible weeds collected along roads because exhaust can leave residues on plants.

Finally, add only one weed at a time to your diet and check for allergic reactions.

On the NDSU Extension "Field to Fork" website (<https://www.ag.ndsu.edu/fieldtofork>), we have a free weed identification guide. North Carolina Extension also has a section on edible weeds in its gardener handout book. It's free online (<https://tinyurl.com/NCEExt-EdibleWeeds>).

Although I probably won't be gathering a pile of weeds to eat this year, I will be harvesting the tender lettuce I protected from the invading weeds. This salad dressing is similar to one I grew up eating with leaf lettuce right from our garden.

Lettuce Salad With Creamy Salad Dressing

1/2 c. sugar

1/4 c. apple cider vinegar

1/2 c. half-and-half cream

8 c. lettuce

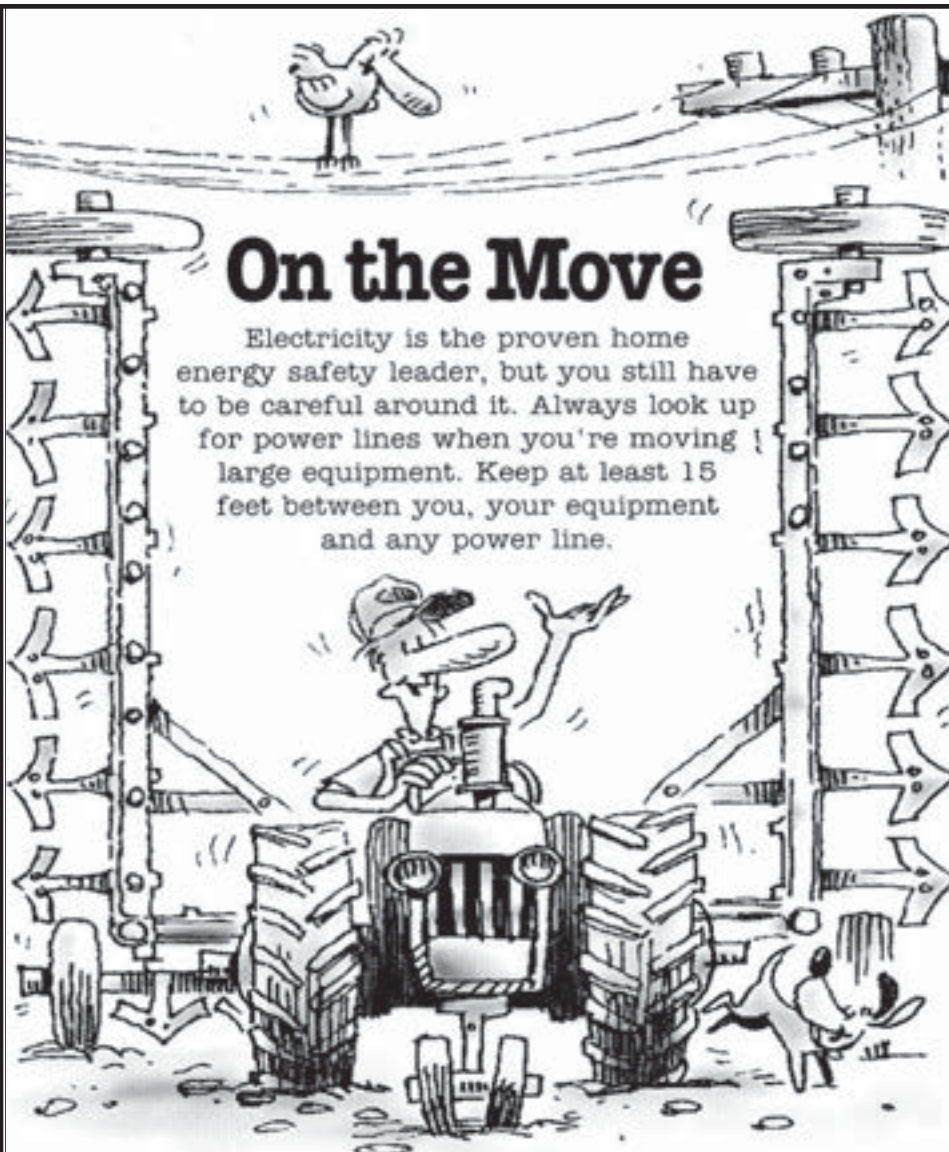
Mix ingredients together, chill and toss with leafy greens right before serving. If desired, top with chopped onions and tomatoes.

Makes eight servings. Each serving has 70 calories, 1.5 grams (g) fat, less than 1 g protein, 14 g carbohydrate, 0 g fiber and 20 milligrams sodium.

(Julie Garden-Robinson, Ph.D., R.D., L.R.D., is a North Dakota State University Extension food and nutrition specialist and professor in the Department of Health, Nutrition and Exercise Sciences. Follow her on Twitter @jgardenrobinson)

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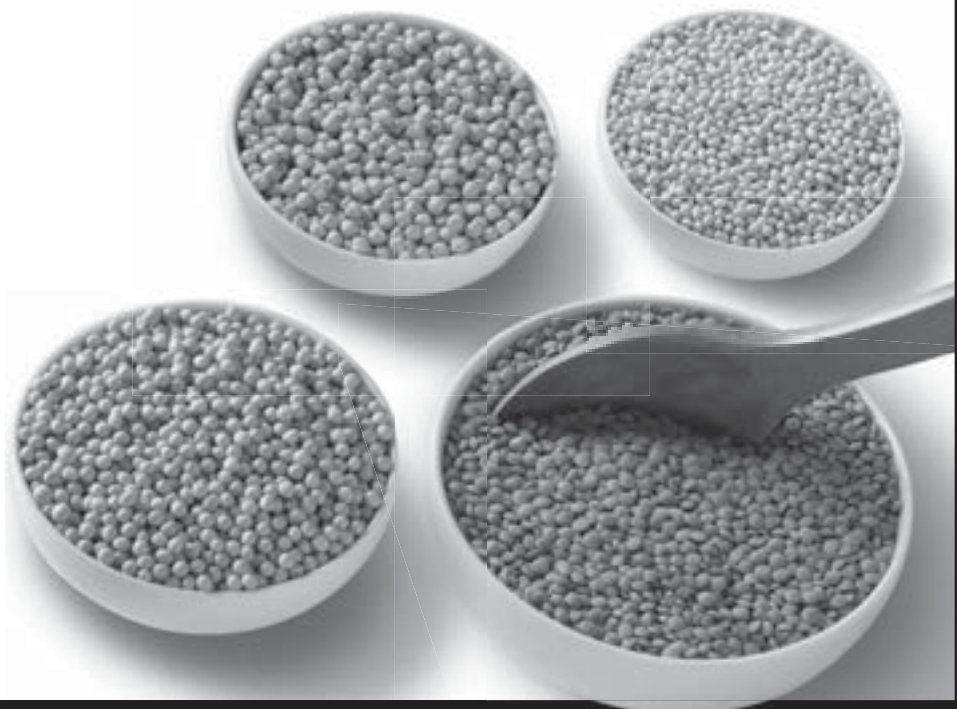
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