

Western Farm, Ranch & Dairy

The vital resource of the Ag Industry | Rocky Mountain-Heartland | Summer-Fall edition 2021

Wayne State College Offers Multiple Paths to Excellent Careers in Agriculture

**American Agra Curtains
Hog Curtains Done Right**

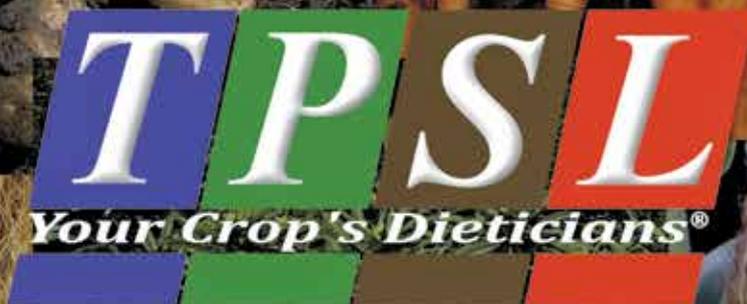
**Stainless Steel Air Seeder Parts
The solution to your corrosion problems!**



www.FarmRanchDairy.com



No Matter The Crop, Your Best Assurance For Financial Success Is



Personalized Guidance Based On Proprietary

PLANT NATURAL®



Soil & Compost Tests

Duplicating the way roots take up nutrients in any soil to get your crop off to a good start.

Plant Sap tests so you can give your plants *What* they need *When* they need it.



Ask The Plant
DYNAMIC CROP NUTRITION

And



**What's In
Your Water**

Becomes Part
Of Your Soil®

Irrigation Water Quality Tests to offset issues that can cause you big problems.

HEMPPlan™

The Holistic Pre-Plant-To-Harvest testing program for **INDUSTRIAL HEMP** growers to maximize yields, quality and CBD with minimal THC, disease and insect problems.

Because

You Can't Afford Not To Know.®

956-383-0739 • TPSLab.com

All photos are of actual clients' crops.



**One free, easy call gets your utility lines marked
AND helps protect you from injury and expense.**

**Visit OneCallOfWyoming.com or dial 811 for more
information.**



**Know what's below.
Call before you dig.**

contents

Western Farm, Ranch & Dairy

Rocky Mountain/Heartland • Summer-Fall Edition 2021

Agriculture

Wayne State College Offers Multiple Paths to Excellent Careers in Agriculture	8
One-Call of Wyoming	10
Amber Waves – Your perfect solution for all your dry bulk and liquid storage needs.	11
Agriculture Based Online Mapping Provided by Surety® and Surety® Pro	12
Dalton Ag Products: Simple. Durable. American.	13
Restock the hay pile or raise \$13 soybeans? Why not both?	14
Avoiding Disaster With Industrial Hemp: Managing Plant Stress Is The Key	16
Ugly Bean Knife and Ugly Peanut Digger Blades Give You the Advant-EDGE!	17
Natural Insecto Products	18
Duck Foot Parts: The Trusted Name in Header Precision and Harvest Efficiency	19

Equipment

Economize on Equipment Costs with a New Kit from Fehr Cab Interiors Co.	22
TSR Parts Inc.	24
Stainless Steel Air Seeder Parts The solution to your corrosion problems!	25
A “Helping Hand” For Zero-Turn Mowers	26

Livestock

Rawhide Portable Corral to blend the Old with the New	30
Deaton Nutrition Inc.	32
How Multi-Sile II Inoculant can save your money	34
Brown Weight Valve – A Valve You Can Love	36
Beefmaster Heterosis Can Impact Any Herd	37
American Agra Curtains – Hog Curtains Done Right	38
Pro-Tech – The Pros at Flying Insect and Odor Control	38

Departments

Advertiser Index	39
Marketplace	40

Front cover: Photo by Lance Cheung, USDA.

Western Farm, Ranch & Dairy Magazine

a Ritz Family Publication

President / CEO

Michael Ritz
mikeritz@ritzfamilypublishing.com

Executive V.P. Operations

Robert Davis
rdavis@ritzfamilypublishing.com

General Manager

Brenda Stoner
brenda@ritzfamilypublishing.com

Sales

Kevin Davis
kevin@farmranchdairy.com
Pat Drury
pat@ritzfamilypublishing.com
Bill Hughes
bill@farmranchdairy.com

Ritz Family Publishing, Inc.

Corporate Office

Ritz Family Publishing, Inc.
714 N Main St., Meridian, ID 83642
www.ritzfamilypublishing.com

Sales

For all sales inquiries, call toll free:
1(800) 330-3482 or 1(208) 955-0124
sales@ritzfamilypublishing.com

Subscriptions

For a subscription or to change your existing address, call toll free:
1(800) 330-3482 or 1(208) 955-0124
info@ritzfamilypublishing.com

Printed By Owyhee Publishing, Homedale, ID

Copyright© 2021. All rights reserved.

Every effort has been made to ensure accuracy of this publication, however, the publisher does not assume responsibility for omissions or typographical errors.

The publisher does not assume responsibility or is liable for the contents of any advertising herein. Publisher's liability for errors in an advertisement is limited to a correct insertion in the next publication. In the event of a misprint, the publisher must be informed of such error prior to printing of the next publication.

We build durable

EQUIPMENT

because you don't have time for anything less.



the ULTIMATE V-RAKE

More maneuverable, more flexible and gets more hay into the windrow. Available with 16, 20, 22 or 24 wheels. Also available with 17, 19, 25 & 27 wheels with rubber mounted teeth.



the SIDEKICK windrow turner

The 5-wheel windrow turner is designed as a multi-purpose management tool. It will lift and turn existing windrows or one that is wet from rain or dew to speed curing time.



the SCRAPER

Move dirt, level land, dig holes, clear areas and drain or fill low spots with your choice of 3, 5 & 7 yard models.



the BALE MOVER

Made of square and rectangular tubing with 5 foot teeth. Flexibility of the teeth allows for uneven ground.



the V-RAKE

Features adjustable width & flexible frame for clean, uniform raking across uneven ground. Available with 12, 14, 16, 18 & 20 wheel lengths.



Single & double bar mowers for every type of grass or hay cutting need, no matter what the conditions. Single bar mowers are ideal for compact tractors and can mow 20 degrees below level making mowing road ditches easier.

the MOWERS



ROWSE

HYDRAULIC RAKES CO., INC

84504 Hwy. 11 • Burwell, Nebraska
www.rowserakes.com

1-800-445-9202

agriculture



Photo courtesy of USDA NRCS.



Request a
FREE Catalog!

SELLING HIGH QUALITY SEED SINCE 1936

We offer a full line of
Agricultural Seed along with:

- Conventional & GT Corn
- Pasture Mixes
- Alfalfas and Cover Crops
- Organic Corn & Forage Mixes

Located in Berlin, behind the Farmstead

Physical Address: 4759 TR 366 • Millersburg, Ohio 44654
Mailing Address: PO Box 205 • Berlin, Ohio 44610

www.meritseed.com | Check us out on Facebook  330-893-3196

Featured Wilger Products for 2021

COMBO-JET[®] SPRAY TIPS
Best Drift Reduction Spray Tips
for ALL PWM Spray Systems
5 Series for Matching
Coverage & Drift Control

NEW UR SERIES



AVAILABLE NOW!



NEW BOOM-END FLUSH
VALVE HANDLES!



WILGER BALL FLOW INDICATORS
Meter & Monitor your flow with one kit.
Simple Operation. No Electronics.

-  Desired Flow
-  Ball Suspended Lower
Indicates Blockage

NEW
ISO Color
Coded ORS
Metering
Orifices



Full Line of
O-Ring Seal
Check Valves
and Fittings



FOR INFO, CALL (877) 968-7695

OR VISIT

WWW.WILGER.NET

**MANUFACTURER OF
WORLD CLASS
SPRAYING COMPONENTS**

Wayne State College Offers Multiple Paths to Excellent Careers in Agriculture

Wayne State College offers multiple paths to degrees in agriculture, whether a student wants to work in agribusiness, agricultural engineering, agricultural communication and leadership, or agriculture and natural resources. In addition to excellent academic preparation, the college offers these programs at one of the most affordable rates for in-state and out-of-state students. The college's One Rate at Wayne State tuition offers in-state tuition rates to all undergraduate students pursuing in-person programs of study, regardless of their home state. The universal in-state tuition rate will save out-of-state students nearly \$6,000 per year on tuition costs.

Agribusiness Degree Program

Here in the Midwest, agriculture is the base of the economy. Having knowledge of the business side can help farmers and ranchers make the most out of farming the land. In the agribusiness degree program at Wayne State, students learn the ins and outs of creating a successful farming operation, while also building a solid knowledge of business that can help in any career path. Students learn terminology and lingo, how to negotiate with other business people, and about companies such as seed and chemical organizations that support the agricultural business. What's more, Wayne State is the perfect location for earning a business administration - agribusiness degree, set right in the heart of Nebraska's farm country.

Learn more at <https://www.wsc.edu/agribusiness>

Agricultural Engineering Degree Program

Agricultural engineers are needed in many different areas. They attempt to solve agricultural problems concerning power supplies, efficiency of machinery, use of structures and facilities, pollution and environmental issues, and the storage and processing of agricultural products. In the agricultural engineering degree program, students can study machine components and equipment, test agricultural machinery to ensure safety and performance, and provide leadership on environmental concerns. With a degree in agricultural engineering, graduates could work in farming, forestry, or food processing. Or, if their interests lean more toward the programming field, they could work with artificial intelligence and geospatial systems in the agriculture sector. Wherever students' passions lie, they will be well prepared for a career in the engineering field. This is a joint program between Wayne State College and University of Nebraska-Lincoln College of Engineering. Students will complete their first years of coursework at Wayne State, then transfer to UNL to complete their B.S. in agricultural engineering.

Learn more at <https://www.wsc.edu/agricultural-engineering>

Agricultural Communication and Leadership Degree Program

Agriculture drives Nebraska's economy, providing 1 in 3 jobs across the state. The agricultural communication and leadership degree program taps a growing profession that brings together agricultural, food, and life sciences with a practical understanding of all forms of marketing and public relations communication. Students learn the complexity of communicating the science of agriculture in our media-rich world through writing, photography, video, and radio production. Students learn how to promote a business and the issues within the industry while gaining an understanding of advertising, promotion, and social media marketing skills that can be applied in an agricultural context, giving graduates a leg up in this high-demand industry.

Learn more at <https://www.wsc.edu/agricultural-communication>
Biology and Agriculture (Applied Science) Dual Degree Partnership

Wayne State College and the University of Nebraska-Lincoln have partnered to offer students an innovative pathway to an agriculture and natural resources degree in Northeast Nebraska. Students who complete the new dual degree program will receive two bachelor's degrees: an applied science degree (concentration in agriculture and natural resources) from UNL and a life sciences degree (concentration in biology) from WSC.

With the growing population of the world, natural resources must be understood and used wisely. In this program, students will study agriculture and biology to become professionals who can apply concepts, processes, and procedures to manage resources in the areas of food, animal, and plant systems. Students will study biology of natural systems as well as the impact human society has on the natural world.

Program candidates will begin their education with coursework at WSC, then finish the degree with UNL while remaining, if they desire, in Northeast Nebraska to complete the final year online or in a laboratory setting. With these degrees, graduates will be prepared for careers in everything from animals to plants, soil to climate, business to mechanization, to leadership and food. Students will take 90 credit hours (includes 30 hours of general education) with Wayne State and finish with UNL with 30 credit hours that can be completed online or at the University of Nebraska-Lincoln.

Learn more about Wayne State at <https://www.wsc.edu> 



WAYNE

STATE COLLEGE

Wayne State College offers multiple pathways for students interested in careers in farming, ranching, and land management. WSC is proud to partner with University of Nebraska-Lincoln on several of these programs.

- Agribusiness
- Agricultural Communication and Leadership
- Conservation Biology
- Agricultural Engineering (two years at WSC and two at UNL)
- Applied Science (dual degree program in agriculture and biology with three years at WSC and one at UNL)
- Plant biology-Ecology and Management (three years with WSC and one

EDUCATION FOR A GROWING INDUSTRY!



Wayne State College has the programs you want at prices you can afford. Explore our programs, tour our campus, and join the Wildcats!



Schedule your visit today at
www.wsc.edu/visit



APPLY
TODAY!



Wayne State College

1111 Main St. • Wayne, NE 68787 • 402-375-7234 • 1-866-WSC-CATS

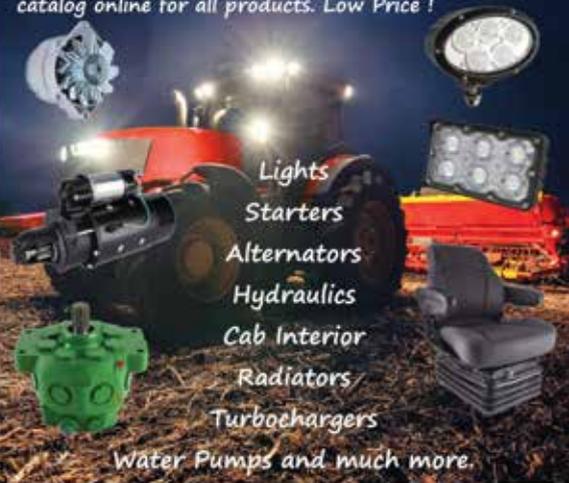
WWW.WSC.EDU • Member, Nebraska State College System



Larsen Lights

Your online AG parts supply store !

Get ready for the season - update your lights to LED. We now have much more than lights. Please check our catalog online for all products. Low Price !



Lights
Starters
Alternators
Hydraulics
Cab Interior
Radiators
Turbochargers
Water Pumps and much more.

www.LarsenLights.com - info@LarsenLights.com
Phone 833-544-8472 - 507-516-7113

STRAIGHT TALK TO FARMERS

- * Soil Testing
- * Manure Testing
- * Water Testing
- * Plant Tissue Testing
- * Feed Analysis



INTERNATIONAL AG LABS

A BIOLOGICAL APPROACH TO AGRICULTURE

Request Your Free Report
at www.aglabs.com or by Calling
MerriDee at 507-235-6909

One-Call of Wyoming

811 was established in 2007 nationwide to provide one, easy to remember number, to call before you dig. One-Call of Wyoming is a non-profit organization that administers the 811 notification center within the state of Wyoming. Any entity within the state that owns/operates any underground facilities shall, by statute, register their location and contact information with the notification center, there are few exceptions to this requirement. If a person is involved in any activity in which earth, rock or other materials on or below the ground is moved or otherwise displaced by means of hand or power tools, power equipment, explosives or other means, and includes grading, trenching, digging, ditching, auguring, tunneling, boring, plowing-in, pulling-in, ripping, scraping and pipe installing, EXCEPT TILLING OF SOIL AND GARDENING OR AGRICULTURAL PURPOSES. They must call the notification center (811) at least 2 full business days, and not more than 14 full business days, prior to beginning their excavation.



Once the notification center (811) has been contacted, the center will send out notifications to our member, operators/owners, to let them know of your intended excavation activity near their underground facilities within the next 2 to 14 business days. The members must respond to the excavator within the 2 full business days and either clear the described dig area or mark their facilities within the described dig area in some fashion within 2 feet of the actual facility location.

PLEASE , for your safety and for the safety of the general public, and the protection of our vital underground infrastructure. DIAL 811 or submit your request online @onecallof-wyoming.com at least 2 full business days prior to beginning, ANY excavation activity.

Submitted by One-Call of Wyoming's Administration Office
Locate Number 1-800-849-2476



Hoskins Manufacturing Co., Inc.

Energy Efficient
Stainless Steel Tanks
Automatic Waterers
Keeps Ice Out
Now UL Listed

Cattle • Hog • Horses • Sheep

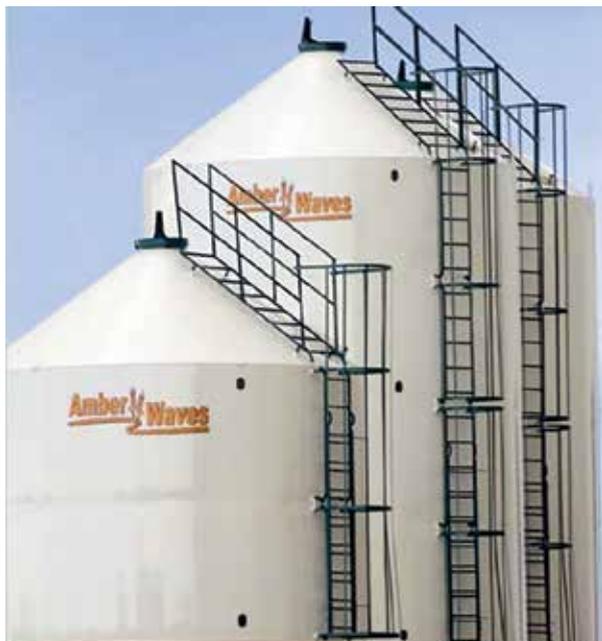
Hoskins Livestock Waterers

PO Box 101 • Hoskins, NE 68740
402-565-4420 • 800-658-4020
www.hoskins-mfg.com

Amber Waves – Your perfect solution for all your dry bulk and liquid storage needs.

Do you have a need for dry or liquid bulk storage? Amber Waves has your solution! Amber Waves is your premier American made smooth wall hopper bottom bin manufacturer.

Built in Southwest North Dakota and serving our fine dairies, ranches and farms across the USA, Amber Waves offers a full line of carbon steel, as well as stainless steel hopper bottom bins ranging in size from 600 to 6000 CF volume. Premix? Whole grains? Ground feeds? Or fertilizer – dry or liquid – Amber Waves has a solution for you.



They offer a full line of standard options and custom design. Whether you need overhead structures, catwalk and conveyor supports, catwalk, discharge slide gates and transitions, additional under clearance, etc., Amber Waves offers the largest fill opening and lid in the business.

Amber Waves also offers industry leading construction, workmanship, and customer service. Their friendly sales and engineering teams will help you find the perfect storage solution for your operation.

They don't believe in taking shortcuts on materials, supporting structure, or in the fabrication process itself. From your first call through the engineering process, through delivery and your set-up, Amber Waves will provide you with an experience that will have you smiling all the way to the barn or the field!

Give Amber Waves a call today at 866-859-2193 for your quote, or look them up on the web at amberwavesinc.com.



AGPROprofessionals
DEVELOPERS OF AGRICULTURE

Premier Horse Property - \$2,500,000



45001 County Road 57, Ault, CO

Beautiful setting with a 110' x 225' indoor arena. This 480 acre +/- ranch features a professionally designed horse facility including a 12 stall barn, heated tack storage, labor apartment, vet/breeding area and more.

RYAN HOSTETLER **AGPROS.COM**
Accredited Land Consultant 303-883-7080
Ryan@Agpros.com



Secure Storage Solutions



- Hybrid Stainless Steel Bins, used in dry fertilizer and food grade applications
- Multi-Purpose Bins, use them for Grain, Seed, Feed, Fertilizer and much more
- Custom designed silos for Breweries, Frac Sand Storage, Cleaning and Bagging operations, Overhead Cake Bins

Custom Quality Bins Mfg. in the USA



11 So. Ave. W., Richardton, ND 58652
866-859-2193
sales@amberwavesinc.com
www.amberwavesinc.com

Agriculture Based Online Mapping Provided by Surety® and Surety® Pro

If you are in need of quick access to field level maps, looking for a low-cost solution for application work orders or require land intelligence for buying, selling or renting, look no further than **Surety®** and **Surety® Pro**. Provided by **AgriData, Inc.**, **Surety®** and **Surety® Pro** online mapping is focused on providing a straightforward mapping experience that is easy to use, economical, and not only saves time, but ensures accuracy of the mapped areas, consistency between different maps, as well as increasing visual professionalism of the maps your company provides.

Surety® gives a low cost, easy to use interface to quickly identify a field, create or select a border and produce printable maps and forms necessary for the job at hand. **Surety® Pro** provides the same great features as **Surety®** with the added ability to save field boundaries for future use as well as save application forms for a complete digital archive.

Serving both ground and aerial applicators, **Surety®** and **Surety® Pro** give those interested in field applications access to important maps such as background images, soils maps and topography as well as a host of application forms for recording work to be done, work that has been done and finished work.

Surety® Pro gives you access to an up-to-date chemical database, provided by CDMS. Build your chemical lists from this database to easily choose your product(s) and enter rate information on your work order form. You can also build a fertilizer

database that contains the products that you apply or supply.

Weather conditions and forecasts are important needs in determining when or what to apply. **Surety®** and **Surety® Pro** will allow you to see, on a field level, current and most importantly forecast weather information through the Weather Outlook form. The Weather Outlook form also allows you to set weather criteria to warn of possible weather issues or to plan around those forecasted weather issues. Weather data provided by DTN.

For many years **Surety® Pro** has also provided access to **FieldWatch®** and the organization's different products including **DriftWatch®**, **BeeCheck®** and **CropCheck®**. Membership to **FieldWatch®** grants access to their products in **Surety® Pro**.

After more than 20 years, **AgriData, Inc.** continues to push the limits of the **Surety®** and **Surety® Pro** products and endeavors in providing solutions to anyone with a need for a great mapping software. Our dedication to the fulfillment of our clients' needs as well as our love for mapping spills over into the products that we offer. The value of mapping in business is increasing every day. We look to help businesses become more productive, accurate, informed, and organized in their mapping duties and abilities. **AgriData, Inc.** strives to become the elite company for mapping technologies no matter the industry.

For more information, visit us at www.agridatainc.com or give us a call at 701-746-8580.



surety[®] Pro
CUSTOMIZED ONLINE MAPPING

The industry's
1st choice in
Mapping Software

NDVI REPORTS

AERIAL MAPS

APPLICATION FORMS

WEATHER OUTLOOK

TOPOGRAPHY

★ Maximize Time
★ Improve Accuracy
★ Save Money
★ Increase Efficiency

AgriData
INCORPORATED

Call Us Today! 701-746-8580

Free 14
Day Trial
AgriDataInc.com

Dalton Ag Products: Simple. Durable. American.

Dalton Ag is a leading manufacturer of high performance fertilizer application equipment for agriculture, located in the heart of the Corn Belt in Lenox, Iowa. Founded in 1996 by local entrepreneur Dick Dalton, 2021 marks the 25th anniversary of Dalton Ag. The Company offers a wide range of fertilizer application equipment under two brands: Dalton and Mobility.

The Dalton line consists of toolbars and liquid applicators for in-ground injection of anhydrous ammonia and liquid nitrogen, plus the associated wagons, tanks, nurse trailers and row units. These products are designed for commercial row crop producers and have working widths of up to 60 feet. Dalton toolbars have industry leading wing down-flex for consistent depth on uneven ground, greaseless pivot points, and are available with 6" x 6" steel tube frames for additional strength in difficult soils. Dalton products are available in a number of colors to match the customer's fleet, including blue, red, green and black.

The Mobility line, with its white and black livery, is designed for the spreading of dry material such as fertilizer and lime before, during and after the growing season. The spreaders come in either row crop or tandem walking axle models, and



Mobility Model 600 Row Crop Dry Fertilizer Spreader

have weight capacities of up to 12 tons.

Dalton Ag has built a solid reputation on designing and fabricating farm equipment that is simple, durable and American. Dalton and Mobility are both names that farmers and dealers can count on.

For more information, contact Dalton Ag at 1-800-342-7498, email office@daltonag.com or visit www.daltonag.com. 



Dalton  **AG PRODUCTS**

MOBILITY
BY DALTON AG

 Find Us On Facebook!

MANUFACTURER OF FERTILIZER APPLICATION EQUIPMENT
Dry Fertilizer Spreaders, NH₃ Toolbars, Liquid Applicators, Running Gears, Nurse Trailers and Custom Row Units

1-800-342-7498
WWW.DALTONAG.COM

Restock the hay pile or raise \$13 soybeans? Why not both?

The dry summer and fall of last year and the bitter cold this winter have combined to make hay a valuable commodity. This has made many consider putting cropland to a temporary hay crop, such as sorghum-sudangrass or teff. At the same time, the explosion in China soybean purchases has made raising soybeans a very attractive proposition as well. It is nice for a change to be faced with actual profitable choices! But when faced with two attractive choices, why not choose both?

One thing the cover crop movement has taught us is that growing crops in rapid sequence does not exhaust soil, rather it feeds the soil microbes that increase soil productivity. It is entirely possible to plant a crop of oats, peas or spring triticale (or a mix of all three) in March and have a hay crop made by May, in plenty of time to plant soybeans.

Not only can the hay crop make as much revenue as we typically expect from a bean crop alone but growing the hay can create a nice stubble to control soil erosion and improve water infiltration and rooting depth and may offer weed control benefits as well. Spring triticale is an unfamiliar crop to a lot of people, but it is a real rising star in the forage and cover crop world. A cross between rye and spring wheat, it has hybrid vigor compared to either parent. Compared to spring oats, it can yield much higher, and is more competitive against weeds. The quality drops after heading relative to oats, but most people prefer to bale in boot stage to leave as much growing season for the following crop as they can. Peas add both additional yield and additional protein to the mix. Or maybe you would prefer to focus on hay and forgo the beans altogether. In that case,

why not grow two hay crops rather than one? You can raise the oat/pea/spring triticale, then follow with a summer forage crop as well. For maximum tonnage you could try a crop of dry stalk sorghum-sudangrass, which offers the high yield of sorghum-sudan in a faster drying package. Alternately, teff grass offers a very rapid drying hay option, while cowpeas or mung beans offer high protein options.

Can't make up your mind? Plan all of them in combination to hedge your bets. If your pastures are beat up after last summer's drought, you could pasture this crop in late summer and give your perennial pastures a much-needed chance to restore vigor and grow deeper roots to weather the next drought. And, if spending all summer baling hay and spending all winter feeding hay sounds less than appealing

Contact us Today!

Every operation is different. That is why we specialize in custom cover crop blends and forage mixes for every need. With over 120 different species and shipping nationwide, our team of soil health experts is ready to design a cover crop mix that meets your goals.

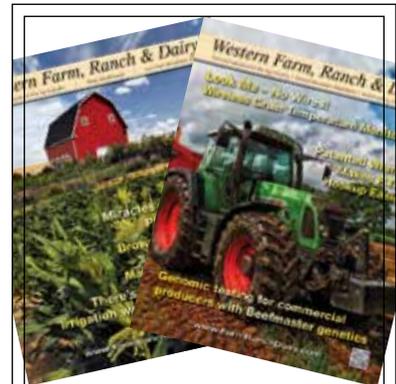
(402) 469-6784

greencoverseed.com

GREENCOVER

**COVER CROPS
MADE SIMPLE**

SMARTMIX



Western Farm, Ranch & Dairy Magazine is online!
Check out our publications on Issuu!

issuu.com/ritzfamilypubs
Like us on Facebook!

www.facebook.com/farmranchdairy

Download magazines from our website!

farmranchdairy.com/frd_order.htm

1-800-330-3482



to you, how about planting a crop that can be stockpiled and grazed without all that work, such as a crop of brown midrib sterile sorghum, with some companion crops for added protein and energy? Many people are using this very economical means of wintering livestock now with great success. In the fall, you can add yet another forage crop, drilled right into the living stubble of the summer mix as soon as it is hayed or grazed off in late summer. At first glance, this seems to doom the new seedlings to certain failure, as they are competing with the regrowth of the established summer crop for moisture and light. But it doesn't work that way. The transpiration of moisture from the regrowth of the summer crop cools the soil, dropping the temperature as much as 30 degrees relative to the air temperature. The cool-season seedlings need only 10% of the moisture at 80 degrees as they do at 100 degrees, so drilling a cool-season pasture mix of oats, triticale, rye, ryegrass, turnips, radishes and peas right into unilled stubble of a summer annual mix can actually increase the survival of the seedlings. After a hard freeze has killed and thoroughly dried the summer plants, they can be grazed off right along with the green growth of the cool-season mix, saving on winter hay needs and providing much higher quality nutrition than hay. Besides, you also save the cost of termination! Best of all, the growing of crops in rapid succession provides those vital soil microbes a continual flow of nutritious root exudates for improving soil structure and water-holding capacity for better crops in the future. 

For Every Farmer Who Owns

a Tandem Disc or Other Disc-Type Implement...

HAVE THEM SHARPENED BY

Blair's DISC SHARPENING

Our On-The-Farm-Service features include:

- No Dismantling
- Doing a better field job...less draft... lower fuel consumption
- Staying sharp longer than other sharpening methods
- Maintaining Original blade concavity.
- More than doubling life of any disc-type tool
- Also Doing IH Turbo Tills!



BLAIR'S DISC SHARPENING

Ross Blair - (701)549-3663 • 309-264-8910 • Cell

Spiro-Mix TMR Mixers

Trailer & Stationary Mixers

- Low Horse Power Requirements
- Spiro Reel & Auger **TRUE end to end mixing!**
- Gentle Tumbling Action **Easy on feed, better herd performance**
- Solid Stainless Tub & Auger Trough **Superior wear, long life**
- Optional hay knives process hay and straw **Mix in Hay, with Hay Kit, for better herd health**



E. Rissler Mfg. LLC

New Enterprise, PA • 814-766-2246 • Call for Nearest Dealer



Poulsen General Store & Supply

151 S. Oak Ave • Eaton, CO 80615 • 970-454-2542

Outside Sales Specialist - Kurt Banks - Cell Phone 970-518-8404

kurt@poulsenacehardware.com



Improve your breeding program! Tail Paint

\$3.15 Per Can

Minimum Purchase 144 Cans
Case quantities of 12 cans per case.
Mix colors by the case.

Available in **17 colors!**



M1600 solvent-based or M1800 water-based
17 oz. Inverted Marking Paint

Drop shipped from the factory **FREIGHT FREE!**
upsidedownpaint.com

Avoiding Disaster With Industrial Hemp: Managing Plant Stress Is The Key

Noel Garcia, CCA
Joe Pedroza
Larry Zibilske, PhD

Hemp growers have one goal in mind: Produce crops with high yields and quality. However, of all crops, hemp alone has the unique statutory constraint that THC, one of the naturally-produced cannabinoid oils, must not exceed 0.3%. Most growers are now painfully aware that a potency test showing a THC level higher than the federal limit will mean the total loss of their crops and in the worst case, be classified as negligent growers. For oil crops, it can be a real balancing act to achieve the highest content of CBD while limiting THC to acceptable levels. However, as fatal as a high THC result is, growers are learning that other factors can lead to a failed crop.

Plant stress is a condition that can be challenging to understand for many growers. Marijuana growers discovered that if they stress their plants in the last few weeks before harvest, they can induce higher production of THC. But stress in industrial hemp can lead to disaster.

What happens if the plant is stressed early in the vegetative state and how does that affect overall yield? Potential growers have asked, “Isn’t hemp basically a weed and shouldn’t it grow well unattended?”. The answer is yes, but not as a commercial crop. Between heat, drought and low humidity, Texas and other arid states can provide plant stress challenges to producing a harvestable crop. So let’s review the experiences two Texas growers had this year:

(Background: Texas growers started under a handicap: Licenses didn’t start being issued until the middle of April – then already more than a month late for planting and they weren’t issued immediately upon application. Accordingly, growers were in a panic to get their crops going.)

- It’s late June and the weather is hot and humid - typical conditions for the Lower Rio Grande Valley region of Texas for the time of year. A new greenhouse grower, excited to invest in a new and promising crop, sets out to start his grow. He starts with topsoil purchased from a local supplier; it’s a sandy loam which he blends with coconut coir and perlite.

The seeds germinate and for the next several weeks, the plants are growing well. One morning as he walks through the rows of potted plants, he notices many of the young plants are beginning to flower. The plants are only five weeks old and six to eight inches tall. They are not an autoflowering variety. What’s going on?

- Another grower in Texas is preparing to plant his first crop. He has seven acres but decides that it would be wise to start with one. It’s a new operation and he hasn’t fully established the drip irrigation system, which he decided to self-install. It’s getting late in the season, so he direct-seeds before it gets any later. The seeds germinate and everything looks great.

He has close to 2,000 plants in neat rows, stretching out in the hot Texas sun. Things are going smoothly, but it’s August

now, and the temperatures are starting to tick higher and higher. For two weeks, temperatures went over 100° and the plants begin to show signs of stress. Insects soon moved in and made the situation worse. As the grower walks his field, he notices his plants, now five weeks old, are starting to flower but they are not an autoflowering variety. What’s going on?

First, let us understand the mechanisms that trigger a plant to switch to its reproductive (flowering) stage. Flowering is initiated either autonomously or by environmental factors. Photoperiodic flowering is controlled by the amount of light and dark hours. With photoperiod strains of Cannabis, plants switch from the vegetative to the flowering phase when they get longer than 12 hours of dark. By contrast, auto-flowering strains are not dependant on light or dark hours and are genetically programmed to begin flowering when they’re 4-5 weeks old.

Other crops show similar characteristics. Olives, for example, are controlled by vernalization: they must have a minimum number of cold hours to initiate flowering. So is that what happened to our Texas hemp growers? Was it so late in the year that the plants got enough hours of darkness to initiate flowering? In these cases, the answer was no. Let’s look at each situation separately and analyze what went wrong:

- In the first grower’s case, the lab analyzed the media and the well water he used to irrigate. A comprehensive analysis showed that the media-mix the grower purchased was mostly inert and devoid of nutrients (and life). The pH was high at 8.3 and highly calcareous with 1,200 ppm of calcium as carbonate.

Additionally, even though coconut coir was added, it did not contribute to the active organic matter as it had not been composed. So, active organic matter measured only 0.52%. The well water tested high in dissolved solids at 1,155 mg/L - mostly sodium and chloride. Notable too, was an elevated boron level of 1.8 mg/L, which can occur naturally in wells deeper than 100 ft. After talking with the grower and discovering how he was fertilizing and irrigating his plants, we understood how stresses had built-up.

He explained that he did not feed for the first 3-4 weeks of growth and had only been watering the plants using a backpack sprayer. He wanted to avoid root rot from overwatering, so he only watered every two or three days. The media in the pots, composed mostly of sandy soil, would become hard and compacted when it dried. The minerals from the water began to build-up in the media, to the point where it had become white and crusty.

The outcome was the plants had experienced chronic stress from underwatering, lack of nutrients and accumulated sodium and boron that was reaching toxic levels as evidenced by a plant sap test that indicated 230 ppm of boron. The response from the plant was one of survival and to reproduce. As Dr. Ian Malcom said in his famous Jurassic Park line, “life finds a

way.” The instinct for survival and reproduction is what drives all life on earth. In the case of our young Cannabis plants, the response was to flower.

- When we reviewed the conditions of the second grower, we found a different pattern of problems. Our soil analysis showed that nutrient levels were mostly adequate except nitrogen, which was excessively high at 290 lbs/ac. As the plants grew, the excessive nitrogen stimulated rapid growth, leading to a weakened cell structure, making the plants susceptible to insect attacks.

The grower, not being experienced in designing irrigation systems, built-in watering issues - so many of the plants were exposed to drought conditions during a heat wave that affected the region. The slope of the field led to overwatering at the bottom and underwatering at the top. He did not consider that static water pressure increases with every foot of elevation by 0.433 psi - so he started off with a considerable static pressure differential along the vertical length of the lines: highest at the bottom - lowest at the top.

Under the stresses of heat, unbalanced nutrition, insect pressures and uneven water distribution, the young plants’ instinct for survival triggered a flowering/reproductive response in the less than 100 surviving plants.

So what should these growers have done differently to avoid

such losses?

No matter the crop, planning and preparation are essential to success. Industrial hemp, in particular, requires very much advance research and planning. There is no better protection against the variables that Mother Nature inflicts to test growers than to have a detailed plan and prepare for your crop’s success - and avoid potential problems.

It can seem like a daunting task with so many factors at play, especially since many think it is beyond their control. And rightfully so, as we frequently hear about storms that hit with little warning and destroy large areas of farmland, and heat waves and droughts that cripple parts of the farming community.

How can we prepare for these challenges?

The answer is hidden beneath our feet. Understanding Soil Health is the cornerstone of every successful grower. The foundation of your plan should be the rebuilding of your soil and its life, and management of its nutrients and structure.

Soil health is an idea that involves optimizing the relationships between soil physical, chemical and biological factors. Achieving and maintaining good soil health is essential for producing good crop yields and quality. Fertilizers are only part of soil fertility. Soil microbes live on and around plant roots and interact with roots in several important ways.

Continued on page 27

Uibly Bean Knife and Uibly Peanut Digger Blades Give You the Advant-EDGE!

Hundreds of hard edible bean farmers have been taking advantage of the Uibly bean knife for over sixty years.

Attention bean, seed and organic farmers

While maintaining the highest standard of quality, Uibly bean knives are still the best way to cut the tap roots and get a higher quality bean while producing fluffier windrows, reducing labor, reducing stones and dirt in windrows, and aiding in your combine’s overall performance.

There has been some speculation about the acceptability of the direct harvest system due to the high losses of beans, therefore keep using the Uibly Bean Knife for the best possible cut and quality for your money. Do what hundreds have already done. Make Uibly Your Advant-EDGE.

Peanut farmers rejoice!

Uibly Peanut Digger Blade Manufacturing, Inc., a subsidiary of Uibly Bean Knife Mfg., Inc., received a patent for the Uibly Lifting Fingers, stainless steel lifting fingers that are flat and curved upward to better guide peanuts up on to the top of the elevator during the digging process.

Used with their patented Uibly Digger blades, which have a thin, hard-faced edge to stay sharp and always cut the tap root, the lifting fingers and the smaller diameter Uibly 6-inch Bottom Elevator Idler Wheels raise the peanuts without turbulence and in a smooth, uniform ribbon to the top of the elevator.

For more information, please call 1-888-723-3244 or visit our website at www.ublybean.com

NOTICE **PEANUT GROWERS** NOTICE

GET YOUR

Advant-EDGE

WHEN YOU USE

UBLY PEANUT DIGGER BLADES

FROM UBLY BEAN KNIFE MFG., INC.

(A) CROSS SECTION

HARDFACING ABOUT .050" THICK AND MIRROR SMOOTH

CUTTING EDGE — HEAT TREATED, ALLOY WEAR RESISTANT STEEL

1 1/8" X 1-1/2" X 46" OR 58"

(A) CROSS SECTION OF "UBLY BEAN KNIFE" GROUND LEVEL

THIS BEAN PLANT AS IT IS CUT WITH THE "UBLY BEAN CUTTER KNIVES"

GROUND LEVEL

* Get complete tap root cut * Get extra long wear with self sharpening knives * Get better quality beans with reduced tare

* Get fluffier windrows for better drying and slower cylinder speed * Get a profit by faster cutting, reduced bean shelling loss, higher points due to less cracking, dents, splits

Nearly every style in stock. Custom knives available. **CALL: Toll free 888-723-3244 UBLY BEAN KNIFE MFG., INC.**

1388 Hill Rd. * Manistee, MI 49660 * Visit www.ublybean.com

Natural Insecto Products

INSECTO is an insecticide alternative to chemical poison's used for control of grain insects and house insects.

INSECTO has been registered with the USA Environmental Protection Agency since 1984 (EPA Reg. # 48598-1). INSECTO is a formulation of a very refined (Micron average size 7) saltwater Diatomaceous Earth (DE) blended with several protein food products which act as baits. DE is the skeletal remains of plankton which feels similar to talcum powder, however when viewed under a microscope, one can see the sharp jagged edges on the DE which basically cuts up and breaks down insects waxy protective coatings. Also, the saltwater DE absorbs up to 175% of its weight in fluids compared to only 150% for freshwater DE. DE is allowed by the Food and Drug Administration (FDA) in Human and Animal food products up to 2% of weight; it is used as an Anti-Caking agent in many food products.

INSECTO kills insects by cutting up the insects bodies, than absorbs their body fluids, which leads to their deaths by dehydration; a physical kill rather than a chemical kill. Insects don't build up a resistance to INSECTO, unlike chemical pesticides. INSECTO is labeled with the EPA "For Organic Production" and is listed with the Organic Material Review Institute (OMRI).



INSECTO has been and is being used by Bunge, Cargill, Consolidated Grain & Barge, ADM and other large companies for several decades, along with on farm storage by thousands for farmers

around the United States and Canada. INSECTO has been exported to Japan, UAE, Israel, Jamaica, Brazil, Nicaragua, and several other countries.

INSECTO is now being used in Poultry Housing for control of Mites, Darkling Beetles, Lesser Mealworms and other insects which plague this industry. Insects in poultry houses are destroying the insulations as well as adversely affecting the health of the birds. INSECTO should be blown in at a rate up to 4 pounds per 1,000 square feet of surface area.

INSECTO was originally developed as an alternative to the chemical poisons which were in wide use in the 1970's and 80's, and has become one of the few registered insecticides on the market today. Control your insect problems today and in the future with INSECTO.

NATURAL INSECTO PRODUCTS, INC.
221 Sherwood Place, Post Office Box 12138
Costa Mesa, California 92627
800-332-2002 • 949-548-4275
www.insecto.com, insecto7@earthlink.net

INSECTO

**Safeguard Your Grain
No License Needed!**



OMRI
Listed
Organic Materials
Review Institute

See your distributor,
call below.

Control Insects Now
Bottom Dress & Top Dress Now
TREAT EMPTY BINS IN LESS THAN A MINUTE
INSECT-KILLING DUST is simply poured into the aeration fan until it can be seen blowing from bin top.

No Applicators License Required to Buy and Use INSECTO

-E.P.A. Reg. No. 48598-1-AA-
Registered for Organic Production
Natural Insecto Products Inc.
800-332-2002 • 949-548-4275
www.insecto.com
insecto7@earthlink.net



Over 50 Years of Selling Farms!

My sister and I are owners and operators of a 700 acre Central NY crop and grain operation. Along with a growing black angus cow/calf operation. Whether you are buying or selling we know farms. We offer a specialized service devoted strictly to Agriculture.

607-316-6597 – Kara L. Reed

607-334-9727
www.possonrealty.net



Duck Foot Parts: The Trusted Name in Header Precision and Harvest Efficiency

Seeing grain loss during harvest was the driving force for Duck Foot Parts' Founder, Steve Kastning, to develop Duck Foot™ slip-over paddle tines. This award-winning farm innovation was created to solve the problem of combine header loss. They were designed to be a time-efficient and cost-effective solution to benefit farmers during harvest. Connecting the product to the farmers who use them, Duck Foot Parts offers knowledge, experience, and expert support.

Outfitting a header with a Duck Foot™ on every second tine keeps the cutter bar clean and creates a more even feed for better threshing to decrease crop loss in the field. Combine operators can slow their reel speed down, further preventing crop damage. This allows for greater ground speed and a faster harvest, using less fuel and less wear and tear on machinery. A significant

feature of the Duck Foot's design and function is that it quickly and easily slides over the existing reel tine and attaches to the pipe. It is then further secured with a unique clip system, now included with every Duck Foot™.



Duck Foot Parts is focused on building strong relationships with its custom-

ers – farmers, dealers and distributors – providing responsive and superior customer service. “Being farmers ourselves, we share in the experience of our customers and we take pride in offering a quality product to increase yield and save time for farmers during harvest”, said Kastning. Duck Foot™ provides benefit to farmers in a wide variety of crops. Field-test data has found up to 75% savings in header losses for pulse and soybean crops.

Steve and his wife Chrisa work together in the business. When possible, they often exhibit at trade shows where they enjoy meeting directly with farmers and people in the ag industry to discuss the benefits of the Duck Foot™. Steve and Chrisa are connected to their product and value being able to offer farmers a high-quality part along with exceptional customer service. For more information or to connect with them, please visit: www.duckfootparts.ca. 🇨🇦

DF Duck Foot™

Header Precision Harvest Efficiency

- Award winning-farm innovation
- Quickly slips over existing tine, attaching to the reel pipe
- Further secured with unique clip system
- Fast and easy to install and remove
- Field tested and proven to reduce header loss
- Clears the cutter bar and feeds crop more evenly for better threshing
- Slower reel speed for less crop damage
- Increases ground speed
- Beneficial in soybeans, pulses, chickpeas, cereals, straight cut canola, among other crops

Patents - <https://duckfootparts.ca/patents> | @duckfootpartsinc @duckfootparts

equipment



Photo courtesy of USDA Agricultural Research Service.

Making Farming More Profitable!



2021 GEA EL48-6D6100,
7,300 Gallon Tank, Flow Meter
Ready, Tool Bar Ready

Call



2021 GEA AP-L-52T, 52' 10" Non
Wall Walking Lagoon Pump; Stabi-
lizer Wings; Heavy Duty Drive Line

Call



2021 GEA SP-R-10, Manure Pump;
10' 8" Super Pump; 3 PT. 8" Pump;
Has Agitation Gun

Call



2021 GEA SP-3B-T-8-12, Super
Slider Vertical Pump; Can Pump
Pit Depths Between 8 And 12';
Hydraulic Controls; 6" Pump With 8"
Discharge Pipe

Call

(888) 681-2644 Decorah, IA
Complete List Of Inventory... www.brynsaas.com



CLEANFIX

REVERSIBLE FANS FOR RADIATOR CLEANING



Improved Air
Conditioning



Increased
Horsepower



Less
Downtime



Toll Free 1-855-REV-FANS (1-855-738-3267) | Phone 519-275-2808 | www.cleanfix.org

Economize on Equipment Costs with a New Kit from Fehr Cab Interiors Co.

As new tractors continue to be offered in the ag-market, the cost of new equipment has soared, and it can be hard to budget for upgrading to the latest and the greatest. By installing a new cab interior, it gives you the feeling of having an updated tractor for the next growing season while providing a higher resale value in the future when you do decide to update your equipment line. Trim your spending budget by making a low cost investment on a new cab interior to keep your equipment in the best of shape and looking like new. If the time does come to update or trade in, you want to get top dollar out of your trade in. By installing a **Fehr Cab Interiors** kit, it gives the purchaser the assurance that you cared about your tractor. By freshening up the cab, the value of the tractor can increase up to 15%.

If you have a tractor over 15 years old, the interior has started to show its age and is falling apart. The vinyl gets saggy, and the foam lining in the cab loses all acoustical properties and starts to harden and deteriorate. **Fehr Cab** has done testing to prove a significant difference in decibels when comparing new and old acoustical foam panels. By replacing the acoustical foam, it silences the high pitched sound decibels that cause damage to your hearing.

Fehr Cab is excited to introduce the "Anyone Can Install" cab

kits to their ever-expanding product line. The John Deere 2 wheel drive 30, 40, 50, 55/60 series Sound Guard cabs are available finished onto pre-formed plastic for much easier installation! Also, for the sound guard cabs, the replacement plastic fender fronts and air vent bezels are now available. The IH 86 & IH-88 headliners are also available as a pre-formed "Anyone Can Install" new kit. These new panels will save you up to 4 hours in installation time and you will no longer have the nuisance of having wrinkles develop and adhesive drying too quickly.

Most farmers can install these parts into his or her tractor, using **Fehr Cab** do-it-yourself kits for over 700 different model cabs. **Fehr Cab** kits are available with pre-cut, pre-sewn, pre-formed panels and complete instructions and whatever is necessary to install kits. **Fehr Cab** strives to replicate the original vinyl, foam thickness, quality custom fit and overall appearance in all interiors offered. The new interior kits make the cab atmosphere so much more pleasant, clean, and quiet. **Fehr Cab** installs these interior kits in local customers' cabs to insure that each part fits and every kit is easy to install. To see how easy our kits are to install, check out our "installation videos" at www.fehrcab.com. Quality materials and superior service is what makes a **Fehr Cab** kit the best value.



JD 55/60 Srs on Plastic

Currently, we are adding new items to our growing product line. Some of the newer items recently introduced are: Complete Seal Kits for Doors and Windows (pre-mitered and contoured to fit); Construction equipment interiors; Cat Challenger interior components, Case IH MX 100-270 interior components, John Deere 5200 srs, 6120-8530 model interiors and John Deere newer model S series Combine sound dampening kits. **Improvements are consistently introduced and customer comments are taken seriously.** Over the past 25 years, we have learned to listen to our customers' requests and concerns to contribute to continued quality and affordability to stay competitive. To make a difference in sound control in your cab, contact **Fehr Cab Interiors Co.** anytime for information or to order.

Fehr Cab Interiors Co. 10116 N. 1900 E. Rd. Fairbury, IL 61739 ph: 815-692-3355 or fax: 815-692-2574 sales@fehrcab.com www.fehrcab.com

NEW CAB INTERIORS

Since 1988, FCI has provided farmers with **FACTORY DIRECT** quality replacement cab interior components for over 750 makes and models of Ag Equipment.



Cab Kits



Floor Mats



Headliners



Misc. Parts

Limited time only
10% OFF
Promo Code:
WFR420
exclusions apply

Why replace Cab Interior??

- Increases resale value up to 15%
- Lowers decibels in cab up to 20%
- Makes your cab cleaner/ safer

(815) 692-3355 fehrcab.com





Adapters For Self-Propelled Forage Harvesters

We Stock Adapters To Use Ear Corn Snapper Heads On Self-Propelled Forage Harvesters.

Our Adapters Allow You To Use Your Favorite Corn Head On Your Self-Propelled Forage Harvester.

Lindquist, Inc.
Giltner, Nebraska
402-849-2264
Fax: 402-849-2600
email: lindquist@hamilton.net
See Our Website:
www.lindquistinonline.com



LINDQUIST
YOUR SOLUTION FABRICATOR

- Class Forage Harvesters
- JD 5000-7000 Series Forage Harvesters
- NH 1900-2100 Series Forage Harvesters
- NH FX Series Forage Harvesters

NEED A BALE SPEAR? We Have 18 Models Available Starting At \$75.00/Spear!!

HAYSPEAR.com



Mention this AD and receive 5% OFF YOUR TOTAL ORDER

WASHBURN specializes in custom steel buildings, auger sales & repairs, custom adapters and conversions, bale spears, gate latches, and much more!

WASHBURN COMPANY

Call Bruce, John or Alan - TODAY!
172 NE 1st Ln
Lamar, MO 64759
hayspear.com
800-283-7107
417-682-5551
info@hayspear.com

FUEL

WHEN YOU NEED IT* WHERE YOU NEED IT*

The Tanker, from Bestway Ag, is an in-field fuel solution engineered to be more than a simple pit stop for hungry machinery.

Equipped with a long list of standard features, it is ready to work long hours, just as you do. Fuel. When you need it, where you need it.



Spray Like A PRO IV



1000, 1200, 1600, 1850 Gallon Models Available

Bestway Ag's Field Pro IV is an industry-leading pull-type sprayer that features superior technology and engineering, including V-Ride and the FiberWorks composite boom system. Call your local Bestway Ag dealer to learn more, or visit us at www.bestwayag.com.

PASTURE SPRAYERS-

300, 500, 1000 Gallon Models Available



BESTWAY AG

WWW.BESTWAYAG.COM

HOPKINSVILLE, KY 270-887-8550
HIAWATHA, KS 877-390-4480
GREENWOOD, MS 800-392-7440
OLIVE BRANCH, MS 866-776-8265
INVERNESS, MS 662-265-5841

TSR Parts Inc.

TSR Parts Inc. is a family owned/operated business located in Colgate, ND. The TSR Straw Chopper developed from a need for service parts for John Deere combines. TSR takes great pride in their work and do their best to have complete satisfaction from all

their customers. All their products are Made in the USA. TSR product adds both value and increased productivity to every farm operation. TSR has a complete line of replacement units and component parts that have evolved to now include the current line of John Deere STS combines.

TSR expanded line also includes complete units and component parts to fit Case IH Axial Flow combines and hydraulic cylinder depth stops. These lines are now available to the worldwide markets. If residue management has been an issue in the past, the addition of a complete TSR fine chop straw chopper or updating your factory straw chopper with TSR component parts, is the solution. If you had to purchase a separate piece of equipment to deal with residue that pulled behind your tractor, there would be additional passes over the fields. The TSR fine chop straw chopper will minimize the need for additional tillage after harvest due to the chopper's ability to shred residue very fine, saving both time and money. Utilizing the fine chop straw chopper makes for an ideal planting bed for those farmers practicing no-till conservation planting methods. TSR works hard to make every part of their product top of the line in both function and workmanship. All TSR products carry a 1 year warranty on their parts against any defects. Take a look at their full line of products online at www.tsrparts.com

TSR Parts Inc.

Invest in your current equipment by updating to a
TSR Parts Straw Chopper

S Series

9000 Series

STS Series

Case IH

Models Fitting John Deere
20 Series Straw Choppers
Also Available

FAMILY OWNED & OPERATED

COLGATE, ND | 800-582-2432 | WWW.TSRPARTS.COM

Sundby's Trailer Sales

Call Us Today!
218-445-5849

Big Enough To Serve...Small Enough To Care.

VERNDALE, MN

SELLING ALL TYPES OF TRAILERS!

- Horse Trailers
- Living Quarter Trailers
- Gooseneck Trailers
- Stock Trailers
- Stock/Combo Trailers
- Flatbed Trailers
- Utility Trailers
- Enclosed Trailers
- Dump Trailers

Over 9 brands to choose from!

Kodiak M E Fleetline BigTex Spill Haulmark Selling Trailers

16498 US HWY 10 VERNDALE, MN 56481
VISIT US ONLINE AT WWW.SUNDBYSTRAILERS.COM

FARM LIKE YOU MEAN IT

EASYPRAKEFACER.COM

NO MOVING PARTS - WILL NOT BREAK

MAINTAIN CUT LENGTH - BETTER FEED

STAY IN THE CAB - NO HYDRAULICS

CALL FOR YOUR DEMO TODAY

Easy Rake
SILAGE FACER

HANSONSILO.COM
800.THE.SILO

Stainless Steel Air Seeder Parts

The solution to your corrosion problems!

Romafa Metal Works realized the enormity of the problem that exists of the many corroding air seeder parts and farmers' and ranchers' desperate needs for a solution. Romafa, through careful planning, designing, and testing, developed stainless steel replacement air seeder parts for multiple brands of air seeders.

Romafa Metal Works found by using stainless steel for the replacement part those parts are stronger and more durable. The parts can handle a lot more stress before showing signs of wear and tear. Plus in addition to being more rust resistant, the replacement parts are also more resistant to staining, and – well, let's face it – they look better too.

You no longer need throw money at a relatively temporary solution only to see it rust away almost before your eyes. Instead, replacing your corroded air seeder parts with Romafa's parts made of stainless steel will be a lasting

improvement and solution.

How it started

Back in 2012 Ronald Kornelsen left his job as a designer and started a small family business with his wife, Marcela, and their family, doing welding, machining, and repair work for the local agricultural and cattle ranching community.



Ronald, with his experience with designing and prototypes in the metal-work industry, also offered these skills to fill the needs of his customers and help bring their ideas to fruition.

Romafa (from the first two letters each of RONald, MARcela, and FAM-

ily) Metal Works very quickly became known as a productive and venture-some business.

Soon local as well as distant customers came to them to have their machinery repaired and/or improved. New ideas were offered, designed, built, and tested.

For Romafa, this created many opportunities for growth as a business, and with the help and expertise of their innovative employees, they have grown to be a business with many different products and projects.

For more information on our stainless steel air seeder parts, our light weight yet durable boom for ditch sprayer trucks, our alfalfa seed sieves for combines (reduces the curls among your alfalfa seed by at least 50 per cent), or if you have a project of your own you need help with, visit our website at www.Romafa.com, or call Jim Kinnaman at 204-364-2244.



HIGHEST QUALITY STAINLESS STEEL REPLACEMENT PARTS for your equipment!

At Romafa we only use high grade 304 stainless steel. As a result our products resist rust and will last a lifetime!

WE MANUFACTURE REPLACEMENT AIR SEEDER PARTS FOR EQUIPMENT FROM:

Housings - couplers - brackets - air plenums - tube assemblies - manifolds - outlets - manifold covers - and more!

John Deere

Flexi-Coil



**SIMPLE TO INSTALL...
HOW TO VIDEOS
AVAILABLE
on our website!**

Phone Jim Kinnaman 204.304.0423 | Office 204.364.2244

Email: sales@romafa.com | Box 4258, Arborg, MB ROC 0A0

We are a High Quality manufacturer that stands behind our products. **MADE IN NORTH AMERICA**

Visit our website for a complete parts listing: www.ROMAFA.com

A "Helping Hand" For Zero-Turn Mowers

Getting on and off a zero-turn mower can be tricky, our support bar known as the DONBAR makes it easier for operators of all ages.

Originally developed to aid our father who was struggling with Parkinson's disease, the bar gave him the needed stability to get on and off his zero turn mower, allowing him years of enjoy-

ment, being able to get out and continue to mow his own lawn. The DONBAR provides stability and balance for people of all ages to safely mount and dismount their zero-turn mower by offering an extra point of contact when climbing on and off, or moving from a sitting to a standing position.

From a professional mowers point of view, use of the DONBAR reduces fatigue from climbing off & on the mower each time you need to move a hose, sprinkler or debris. An additional benefit is on those early mornings that bring a bit of moisture, having the additional point of contact helps the operator to avoid slipping on the wet grass. The DONBAR works just like a handrail, giving

DONBAR USA

Support Bar for Zero-Turn Mowers

Works like a handrail creating better balance when climbing on and off a Zero-Turn mower.

scan to purchase now!

\$94.95
order online today!!

STABILITY • BALANCE • SAFETY
Order online at www.dbmower.com • 763-785-1382

DONBAR
MADE IN THE USA

Think Safety.

an extra point of contact for better balance and stability.

The DONBAR mounts directly to the footplate of a zero-turn mower. It uses existing deck holes (some applications require additional drilling) and attaches with lock nuts that resist loosening under vibration and torque.

Priced at \$94.95 plus shipping and can be ordered online at: www.dbmower.com.



**WAGNER USED EQUIPMENT -
READY TO WORK!**

For a complete list of our available used inventory visit:
WagnerUsedEquipment.com

Contact your Wagner Equipment Co. Representative
or call **303.900.5875** with questions.

CAT Certified Used **WAGNER** **CAT**

2015 CHALLENGER MT685E \$186,500	2009 CAT 924H \$81,000	2014 CAT 236D \$35,500	2009 CHALLENGER MT685C \$170,000
2015 CAT 903H2 \$65,000	2015 CAT 259D \$33,500	2014 CHALLENGER MT757SD \$148,200	2014 CAT 938K \$185,000

Avoiding Disaster With Industrial Hemp:

Continued from page 17

Among the most important interactions are ensuring plant roots are protected from pathogenic microbes and assisting the uptake of nutrients into the plants. But healthy soil also includes beneficial nematodes, insects, earthworms and fungi – all interacting with each other and the microbes in concert.

Maintaining balanced nutrition and vigorous soil life at every stage of your plants' life cycles will ensure that no matter what challenge Mother Nature sends, your crops will have the best chance of making you money.

Soil or growing media testing is one of the best investments a grower can make, especially when planning a new season. As we saw with our Texas growers, soil lacking in nutrients or having excess nutrients, devoid of life, or being extremely acid or alkaline, all lead to plant nutrient uptake problems – which invariably results in stress.

Irrigation water analysis is also paramount when installing your farm's infrastructure. Poor quality water can neutralize the efficacy of nutrients and treatments, affect distribution by plugging emitters when using drip irrigation and change the soil's native chemistry.

These tools will help you understand where you need to focus your energy and resources. The goal is to provide the best possible environment for your plants to grow. When we correct our soil's nutritional imbalances, we facilitate maintaining adequate levels of nutrients in our plants as they develop.

As the plant grows, its nutritional needs change and meeting those needs will greatly reduce the harmful stresses that prevent the plant from reaching its maximum genetic potential – and limit the production of THC. Simultaneously, we reduce the need for insecticides and other harsh treatments that reduce overall profit. In the case of conventional growers, we also reduce the exposure to strong chemicals and toxic treatments.

Additionally, it is essential to learn from those who have experience in growing crops – and industrial hemp, in particular. We are still learning about the stresses that affect hemp and the differences between geographical/climatic regions. Add to that the regulatory standards and market requirements that must be met to harvest a profitable crop and one quickly realizes that industrial hemp is one of the most challenging crops to produce.

We encourage you to reach out to experienced Industrial Hemp (not Marihuana) growers and consultants willing to council you about your plans and goals. Plan and prepare for a successful crop by learning what your soil needs to be healthy and what you need to restore that health.

Include soil microbes and organic matter in your plan and you will ensure vital relationships are maintained in the plant root environment for the entire season...and beyond.

All crops, aside from hemp, benefit from healthy, living soil. It is the greatest asset we have. It is our obligation to be the stewards who restore the rich farmlands that once were the pride of our forefathers. 🍷

Noel Garcia is a Certified Crop Advisor and is Chief Operating Officer and Senior Technical Consultant at TPS Lab

Joe Pedroza is a Texas-Licensed Hemp Sampler and is Business Development Manager at TPS Lab

Dr. Larry Zibilske is Vice-President of Research at TPS Lab

WE HAVE ALL YOUR FORAGE PROTECTION NEEDS COVERED!



WE SHIP NATIONWIDE!

JOHN DEERE FINANCIAL

Blue Lake Plastics LLC

www.bluelakeplastics.com
320-333-9255
Sauk Centre, MN

VISA M/C DISC AMEX

FIX YOUR TRACTORS CHEAP!



Buy used replacement parts
We have almost anything for everything: motors, rear-ends, transmissions, wide front, cabs, tires, duals, etc.

Can ship immediately

Iowa's largest salvage yard offers tremendous savings on parts for every kind of tractor or combine!

"We have over 1000 tractors and 500 combines in Salvage."

COLFAX TRACTOR PARTS, INC.

info@colfaxtractorparts.com

www.colfaxtractorparts.com

800-284-3001 • COLFAX, IOWA

livestock



Photo courtesy of USDA NRCS.

CANADA

Alberta

All UFA's
check your local UFA listing
Cattle Creek Ranching
1-306-662-2449
Minburn Colony
1-780-593-2100
White Lake Colony
1-403-332-2271

British Columbia

Highlands Irrigation Ltd.
Williams Lake, BC
1-250-392-2321
Clarence Vanderhoof, BC
1-250-567-0384

Saskatchewan

Cattle Creek Ranching
Maple Creek, Sk
1-306-662-2449

U.S.

North Dakota

Interstate Waterers
Mandan, ND
1-701-391-1286

South Dakota

Rose Construction
Ft. Pierre, SD
1-605-224-0086

Montana

Deer Field Colony
Lewistown, MT
1-406-538-5228 or
1-406-350-2056

Nebraska

High Plains Trenching
Springview, NB
1-402-541-9166

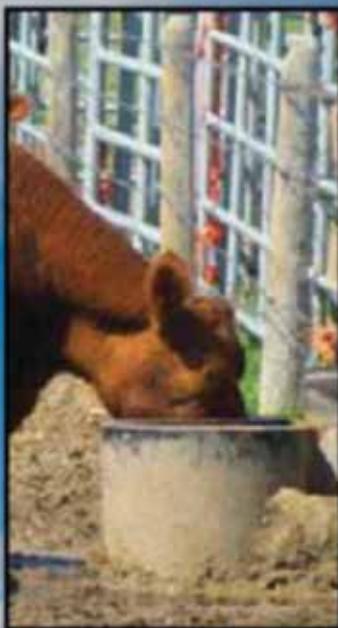
Pennsylvania

Memmo Contracting
Bridgeville, PA
1-724-350-2649



The Energy Efficient Livestock Waterer

- ✓ Unfreezable waterline and float
- ✓ No electricity or concrete required
- ✓ Lower installation and maintenance costs
- ✓ Self circulation keeps water fresh
- ✓ Heavy duty crosslink polyethylene construction
- ✓ Easy adjustable water height
- ✓ No rusting parts
- ✓ Services 1-200 head
- ✓ All workmanship guaranteed



*Effective for:
Cattle, Elk, Bison,
Sheep, and More!*

**Thermosink
Cattle Waterers
1-403-332-2271
1-403-332-2287
thermosink.com**

Rawhide Portable Corral to blend the Old with the New

John McDonald knows a thing or two about livestock equipment after working with cattle and rodeo livestock most of his life. Knowing there had to be a better portable corral design out there; he came up with it himself.

In 2003 the public was introduced to his original Rawhide Portable Corral. It could be set up by one person without any lifting and it could be done quickly; yet it could also be pulled down the road at highway speeds, ensuring that no time would be wasted while catching cattle.

Fast forward to 2018 and now customers have two different corrals to choose from; the Rawhide Original, throwback to the first design, or the Rawhide Processor.

Even though the Processor's design is viewed as the superior portable corral on the market, John believes that there are still those who will want a smaller, more affordable system. Enter the Rawhide Original, which is a blend between the two designs he has offered throughout the years and has a bumper hitch with permanent transport

wheels. The Original is only offered in the Standard and Large sizes.

The Processor is offered in three sizes for the convenience of ranchers and cattle producers throughout the world and the main difference with this design is the ability to customize the corral upon ordering by including a hydraulic alley, head gate or loading chute. Whether you simply want to catch your cattle or process them on site and load them into a trailer from



the pasture, you are able to do so with the Processor.

The design of the Processor continues to impress cattle producers with its versatility and ease of use. The permanent sheeted adjustable alley aids with working your livestock, whether it is done on site or in the field. The adjustable alley can be sized from thirty (30) inches down to sixteen (16) inches; either manually or hydraulically.

The most notable features of the Rawhide corrals are that they are easy to set up and they are easy to transport. We mean it when we say that one person can open up the corral without lifting a panel. This will continue to be the model as we move forward with our newer designs.

The key is one person can handle it all by themselves. Customers can manipulate the panels so it is not just one big pen, but two, three or even four pens for sorting, as one can never have enough pens when it comes to working cattle.

John's design was the first portable corral on the market to offer the hydraulic lift option. This has been so popular that we now offer customers the option to buy the Hydraulic Lift Kit with or without the battery so that they may upgrade existing equipment of their own. A lift kit includes the jack, power unit, solar panel and of course the option of including a battery at time of purchase.

John and his wife Mary run the family business at their manufacturing plant in Abilene, Kansas, which is the only place where a Rawhide may be purchased outside of South Texas, where we now have a dealer in Hempstead.

Please check out our website for more information and to view our videos: www.rawhideportablecorral.com or find us on Facebook. Phone # 785-263-3436.





The First Hydraulic Corral and still the Largest!

RAWHIDE
Portable Corral
SYSTEM

1 Person
No Lifting
10 Minutes



Rawhide Original



Rawhide Processor
by John McDonald



3 Sizes Available!

- Pull on highway at speed limit.
- Fits through any gate your pickup will.
- Stable on uneven terrain.
- Wheels on each panel and electric over hydraulic jack eliminates lifting— saves time.
- Frame gates for sorting.
- Transport wheels are permanent, no sliding off the axles and rolling out of the way.
- Permanent sheeted adjustable alley.

Rawhide Portable Corral
785.263.3436
rawhideportablecorral.com



CRF Stack 2K Block with Fiber Factor®

- **Fastest, easiest way to get high-quality feed to cattle in distressed areas.** Can be **trailed in** or **flown by helicopter** in super-sized bags.
- Use to extend pastures in **drought conditions**, or **late summer** when pastures have lower nutrient value and to **supplement lower-quality hay**.
- **Use to increase stocking rates** on expensive pasture.
- **Unique source of digestible energy.** Ideal for low-quality forage geographies.
- **Contains 10-12% protein as fed.** May aid in the prevention of fescue toxicity.



What is Fiber Factor?

Fiber Factor is the first and only animal feed product made using a patent-pending proprietary process which shatters the ligno-cellulosic bond in corn stover and similar plant materials to make the nutrients within bio-available to the gut. This process improves the handling, physical characteristics, nutrient profile, moisture holding ability and digestibility of bio-fiber, resulting in a highly palatable feed that delivers the gut health benefits of effective fiber. Fiber Factor can be combined with other feedstuffs, vitamins and minerals to make safe and efficacious products for multiple species.

Feeding Instructions:

Provide 2K Block Use to extend pastures in drought areas, in late summer when pastures have lower nutrient value, and to supplement lower-quality hay. Supplement with additional minerals, proteins and energy when necessary as dictated by desired animal production and performance.

Feed Ingredients:

Processed corn, liquid co-products, roughage co-products, processed grain co-products, calcium co-products, magnesium

Important Note:

Use as directed. Keep feed fresh in cool, dry storage.

DO NOT use feed that has been allowed to become old, molded or insect-infested. Always provide plenty of fresh water.

Animal performance is not guaranteed by the feeding of specific rations. Changes in composition of feeds, methods of feeding, environment and general management will effect performance.

®Fiber Factor is a trademark of Iowa Agricultural Bio Fibers, Harlan, IA

Your Local Fiber Factor Dealer is:

Rosendahl Farms Seed & Feed

35884 175th Avenue
Columbus, NE 68601
402-564-4237

stan@seedandfeed.biz | www.seedandfeed.biz

CRF Stack 2K Block with Fiber Factor Guaranteed Analysis

Crude Protein	Min	12.5%
Crude Fat	Min	1.6%
Crude Fiber	Max	30%
Calcium	Min	2.5%
Calcium	Max	3%
Phosphorus	Min	0.7%
Magnesium	Min	2.5%
Potassium	Min	1.5%

Net Wt. 1 Ton



Crop Specific Inoculant

- Haylage & Small Grains
- Dry Hay-up to 26% moisture
- Corn Silage
- Hi-Moisture Corn

Full line of applicators.
Exceptional customer service.
Organic certified.

Custom Operators Wanted

DEATON NUTRITION, INC.

N4852 County Road C ~ Ellsworth WI 54011

Office: 715-273-3739 Cell: 612-812-7939

www.multisile.com

deatonnutrition@dishup.us

Deaton Nutrition Inc. How Multi-Sile II Inoculant can save your money

After generations, farming is still a margins game. Profit or loss can base on a big gamble or just a little bit of bad weather. Waste is always a concern. Farmers and ranchers have done the best they can, but everyone needs help from time to time.

25 years ago, Deaton Nutrition, Inc. started out as one-person company doing rations to improve feeding. They have expanded to include crop specific inoculants sold in 28 states and 2 countries. Every employee has either worked on or grown up on a farm. They work with everyone from hobby farms to custom operators to thousand+ cow dairies. They also have a line of custom made applicators. "We are a customer service based company. If our customers aren't happy, then we aren't happy."

"As I nutritionist, I saw a growing need for high quality forage." We have perfected a formula that is both effective on crops and easy to apply. Treating feed and crops with a high quality inoculant is one of the best investments you can make. With an average return rate of at 6:1, this is a gamble most would say is worth taking. Returns include:



New Pro-Siler 1000 applicator

- 1) **Better Protein Value and Palatability.** With tests done with Multi-Sile II Dry Hay Inoculant vs. propionic acid, all animals preferred the feed treated with the inoculant.
- 2) **More Silage to Feed.** When using silage inoculants, as much as 15% of loss could be saved due to a more efficient ensiling process. This could mean that for every 100 acres ensiled we have an additional 1 to 2 acres of more feed.
- 3) **Better Milk and Beef Production.** Trials showed that when inoculant treated silage was fed to beef steers, it improved ADG to the equivalent of feeding an additional 2.2lbs of concentrates/cow/day.

Multi-Sile II- The one that's Guaranteed to Improve Animal Performance.

All products are made in the USA. For more information you can call 715-273-3739 or go to www.multisile.com



We Offer Pick-Up Service With Our Monthly Packages

All Testing Done To DHIA/State/Federal Specifications

We Offer a Full Range of Wet Chemistry With Various Other Qualified Labs



Milk Testing – Feed Testing Our Services Prove That Cows Are What They Eat!

ADM Laboratories, LLC

5346 N Prince St, Clovis, NM 88101

Toll Free (877) 236-5227 Phone (575) 763-0039

BOWPELLER®

Milk Receiver Pumps

**Low Shear
gentle to
milk fat**



Our patented low shear pumps provide the optimum design for gentle handling, with less g-force, higher efficiency, and smoother flow vectors

www.lowshearpumps.com



Kenosha, WI

John McGinn (262)-909-7267

**We can customize to
fit all your needs**

Call or Email us today for a full brochure



BLUE RIVER WATERERS

WWW.BLUERIVER-IECP.COM

BLUERIVERIECP@YAHOO.COM

866-588-2211



Brown Weight Valve

A Valve You Can Love

Introducing the WEIGHT VALVE

Garry Brown, a former dairyman, has been developing and selling his weight valve for several years. This valve is not a float valve. It uses a valve that is normally closed (a float valve is normally open, and the float holds the valve closed). This valve has a weight on an arm that pushes the spring-loaded valve open when the water level is lowered in the tank. The arm is adjustable for setting the water depth.

Brown's weight valve uses a solid block of HDPE (high density polyethylene) mounted on the arm. HDPE is lighter than water and is the perfect weight for the valve. This block rests at the water's surface. As water in the tank lowers, the weight pulls down on the arm, pushing the spring-loaded valve open and turning on the water.

As Brown developed his weight valve, he built it the way dairymen would want – heavy duty and built to last. The valve housing and weight are made of HDPE, and all metal parts are made of stainless steel. It is built to last, priced competitively with other valves, and made in America.

If you have been around dairymen much, you know that almost all of them have things that they love. The love the

brand of their tractor (and probably have several replacements). They love the kind of pickup truck they drive. They love the breed of cows they love. And the list could go on.

But you seldom will find a dairyman that loves the kind of float valves that they use in their water troughs. Float valves have been the only device available to control the water level in any container, water trough, swamp cooler, and toilet tank for roughly two hundred years. More often than not dairymen will tell you how much they dislike them, and they can't find one that works well and lasts.

Can you think of any other device that uses two-hundred-year-old technology? There are variations that have had some success but most are not a dairyman's favorite device.

That is changing. There is a new water valve available that is not a float valve but operates on a new principle. There is finally a water valve that dairymen can love.

The arm on the regular size Brown Weight Valve is a one-eighth-inch-thick bar of stainless steel. The weight is a solid block of HDPE about the size of a brick and weighs about two pounds – these weights will never fail like a float valve will.

With a weight valve, the most pressure that can be put on the valve is the weight of the arm. The arm is hinged to push

BROWN

The New Way
To Maintain
Water Levels

*Simple New
Technology
Spring-Loaded to
Naturally Close*



Anti-Freeze Valve

*“Several large dairies
been using these
valves more than 12
years and ain't had to
replace a'one of 'em!”*



Complete Valve

Built To Last!

*Call Brown Weight Valve to assist in
selecting the proper valve for your application.*

801-602-9910 • wilgerbin@aol.com
www.BrownWeightValve.com




8244W

CATTLE FEEDERS ON WHEELS
MANY MODELS TO CHOOSE FROM

- Single Trough
- Double Trough
- Slant Bar Feeders
- Headlock Feeders
- Double Trough w/Haybasket in Middle in a 4 Wheel Model and on Skids
- Transport Feeder w/Dolly Front Adjustable Tongue for Easy Hookup, 16" Wheels, Used Truck Tires Keep the Cost Down

DEALER INQUIRIES WELCOME

STOLTZFUS MFG INC.
STOYSTOWN, PA

Call James • 814-893-5086
kw@ibifax.com

in on the valve – but not attached to the valve, so if the water level rises the weight will float up without putting pressure on the valve.

There are several different sizes of Brown's valves that deliver from four gallons per minute to over twenty gallons per minute. Brown has put together many configurations, such as a valve with a short arm and a hanging weight, and an arm that allows the valve to be mounted under water. Other sizes and configurations as demand dictates.

Weight Valve FREEZE VALVE

Brown has found a perfect freeze valve to use on the weight valve to keep water lines and valves from freezing. It is fully adjustable from a dribble to a full stream (with a 3/16 in. opening). The freeze valve, like the weight valves, are built to last. Moving water will not freeze. This valve can be closed to where it delivers a pin-point stream (it has to be left on with a solid stream) and can deliver as little as two gallons in three hours. You don't need very much volume in your troughs to hold this additional water during the night when animals are not drinking.

The weight valve arm is adjustable so you can adjust it to shut off the water at a lower level during cold weather so the additional water added to the trough at night when a few animals will drink will not overflow the trough.

There are several freeze valves on the market that turn on a smaller stream of water when the water temperature approaches freezing. These are being sold for use with float

valves. Since the water cannot rise any higher than the float's shutoff without damaging the float valve, this requires an overflow drain to carry the additional water out of your corral. It would be very expensive to put underground drains in all troughs, and this water is wasted – adding further expense. There is one other way to keep troughs from freezing using a float – heat the trough. And that is expensive.

The arm of the weight valve is hinged so it only puts pressure down. If the water level is raised higher with a freeze valve it puts no pressure on the valve or weight. The weight floats up with the rising water. By adjusting the small stream of water that the freeze valve delivers, it comes out of the valve at the water pressure in your water line, and runs toward the weight so it tends to keep the weight from freezing in the trough.

During really cold periods, it will keep the water line, the valve, and the area around the valve from freezing. When the animals start drinking in the morning, the new water coming into the trough will melt the rest of the trough. If the weatherman says it's going to be extremely cold, you can open them a little more. During the summer you can shut them completely off.

The WEIGHT VALVE, and the FREEZE VALVE are perfect match. For one person to come up with just one of these ideas is great – but Garry Brown came up with both!

To learn more, visit www.BrownWeightValve.com, contact Garry at 1-801-602-9910, or email wilgerbin@aol.com. 

**Quicker Cauterizing • Less Blood
Faster Healing • Less Animal Stress**

THE IRON



Order THE IRON TODAY!!

SURGICAL STAINLESS STEEL RODS

No other cauterizing tool even comes close to **THE IRON**. **THE IRON** tips are made completely out of surgical stainless steel rods. This design feature, exclusive to **THE IRON**, provides a constant source of heat (1500 degrees) for hour after hour of continuous use...the tip will never lose heat or burn out.

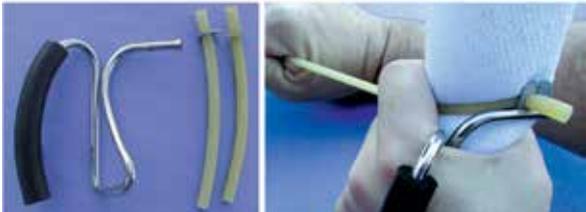
VET TUF Industries
box 55 • 506 Main • Minden, IA 51553
800-851-6827



Make YOU and your BULL happy today!

- ✓ With the new **“California Bander”**
- ✓ Bulls don't like being in a chute too long

You don't want to be under the bull too long!
Easily places bands in just seconds!!!
The price will make you even happier!



Hear what one of our customers has to say!
“The easiest of all the banders we have used”
Gary Fritsch, Fayetteville, TX
Money Back Guarantee Call today **800-847-2533**
See video at www.inosol.com or call
for a free demonstration DVD

Beefmaster Heterosis Can Impact Any Herd

Beefmaster is a beef breed developed in America that improves beef quality and production efficiency when crossed with any other cattle breed for commercial beef production. The breed originated in Southern Texas in the late 1800's into the early 1900's. The Lasater family originally developed a large herd of Hereford cattle carefully selected to withstand the heat and insects of the Texas Gulf Coast region, but they were still not perfectly suited to that difficult environment. So Lasater began to experiment with incorporating *Bos indicus* or Zebu genetics, in the form of Gyr and Guzerat bulls from India and Nelore from Brazil. While the practice of crossbreeding was virtually unheard of at the time, they immediately saw a tremendous jump in productive traits, such as weight gain and reproductive rates. This is genetic advantage known as heterosis or hybrid vigor.

By the early 1930's, the ranch also incorporated Milking Shorthorn genetics, to augment milk production and carcass quality. They could immediately see that the three-way hybrid was far superior to the two-way crosses. The final composite ended up at roughly 50% *Bos indicus* and 50% *Bos taurus* (25% Hereford and 25% Shorthorn).

As Lasater developed the breed, he also formed a unique selection phi-

losophy known today as The Lasater Philosophy. The concept is to only select cattle for economically relevant traits, which he distilled to these Six Essential traits. It is the only breed in history to be selected only using pressure for productive traits, as opposed to aesthetics.

In 1937, the herd was closed to outside genetics with continued internal development to cull low-performers and upgrade all traits together equally. By 1954 the foundation herd was recognized by USDA under the name of Beefmaster.

The breed has rapidly grown around the world and has become known as the prime maternal cow for serious commercial cattlemen that appreciate their production excellence, particularly in harsh desert or tropical environments. The breed has excelled across most regions of the United States and is the leading breed of choice for commercial cattlemen in Mexico, South Africa, Thailand, Panama, Columbia and several other Latin American regions. With global demand for higher-quality beef growing geometrically, Beefmasters provide the perfect breed to cross on commercial cattle to improve production efficiency and carcass quality, while not sacrificing adaptability.

Commercial cattlemen have noted

substantial economic gains from using Beefmasters to provide an average increase of 60 lbs., or more at weaning when compared with other breeds. They excel post-weaning as well, with faster weight gains, excellent feed conversion and carcass yields around 64%.

In a time when sustainability is becoming increasingly critical, Beefmasters have repeatedly demonstrated that they are highly efficient converters of both forage and feeds into lean, tender, high-quality beef. A recent study at the U.S. Department of Agriculture Meat Animal Research Center (MARC) demonstrated Beefmasters dominance when compared to 18 of the most widely used beef breeds in the United States.

Beefmaster Breeders United (BBU) is headquartered in Boerne, Texas. Beefmaster ranks fifth in the U.S. in terms of membership and is the largest of the American breeds. The association has over 3,000 members registering around 19,000 calves annually.

Beefmasters also enjoy a rapidly growing international footprint, with established associations in eight countries worldwide. These innovative cattlemen have seen the tremendous strengths Beefmasters bring to their own genetic improvement programs. For more information about what Beefmasters can do for your operation, please visit us www.beefmasters.org. 



American Agra Curtains

Hog Curtains Done Right

Keeping things in the family and carrying on a decades-old tradition is a big reason for the continued success of a Delphi, Indiana-based company that has been a favorite of livestock producers since the early 1980s.



American Agra Curtains, a manufacturer of textile products for livestock barns, particularly insulated curtains for swine, dairy and poultry operations, was founded in 1983 by Bill and Carolyn Henderson. Bill Henderson said as a former builder of such facilities, he had a conversation with a hog farmer that sparked the idea for the company that today provides curtains for livestock producers world-wide.

He said to me ‘I’d have one of those naturally-ventilated buildings if I could get an insulated curtain on it,’” remembers Henderson. “So, it really was the farmer who had the idea.”

Bill said he went home and ran the idea past his wife, Carolyn, an accomplished seamstress. “She had some ideas on what kind of material to use because she was used to using material and we just put it together.” Not long after the couple’s first effort at making hog barn curtains was installed, the product was put to the ultimate test.

“We had cold snap after we put it on his building and he was so happy because in his old building — the one that wasn’t insulated — every water

line in the place busted and none of them busted in the new building.” The Hendersons received a patent for their insulated curtain, named Mar-Co-Lite, and through word of mouth, demand for the new product grew into the company that today provides curtains and

other products to many of the world’s top producers. In December, 2018, Carolyn lost her battle with cancer, causing the family to regroup and develop a strategy for the future. Brian and Jerri Henderson, a son and daughter-in-law of the couple, were made the

company’s new owners with Bill still overseeing some of the day-to-day operations. Jerri was named president and Brian managing owner. According to Jerri Henderson, the recipe developed by Carolyn when the company began in 1983 will continue to be the company’s roadmap for the future.

“I worked here when Mom was here and when she got sick and couldn’t be here, I took care of her,” said the new company president. “She was really good at it. She was a leader. She was the oldest of 10 children and that being said, when you’re the oldest, a lot falls on you. I would say Mom ran this business very well and a big part of her success was her insistence on top quality, having a product that is 100 percent American made, and her relentless dedication to customer service.” The company is branching into other products such as recreational vehicle skirting, bird barriers for the poultry industry and room dividers for numerous industrial purposes.

Call Jerri Henderson at 765-564-3979 and see what they can do for you, or email her at Jerri@AmericanAgraCurtainsInc.com



American Agra Curtains



**IMPROVE YOUR PROFITS WITH
CUSTOM - MADE, ENERGY - SAVING
FOR LIVESTOCK BUILDINGS**

100 percent made with components manufactured here in the USA.

American Agra Curtains, a manufacturer of textile products for livestock barns particularly insulated curtains for swine, dairy and poultry operations.

1124 Samuel Milroy Rd, Delphi, IN 46923

765-564-3979

www.americanagacurtainsinc.com



Automatic Flying Insect Control for All Facilities ...LARGE & SMALL

PRO-TECH-TOR systems are the solutions to flying insect management problems. Here's why:

- Deadly to flying insects, yet environmentally safe low-odor insecticide.
- Multiple spray duration choices and extremely easy-to-use control timers.
- A variety of system sizes available to meet any facility's requirements.
- High quality, heavy-duty components for low maintenance and long life.
- As affordable to use as it is effective.

Solve that pesky, irritating, stressful problem!



For All Insecticide Spray Systems...Call Us Today!



800-776-5005

(281)259-0600 • (281) 259-4690

Pro-Tech Livestock Corp. – P.O. Box 1450, Tomball, TX 77377

www.protech-control.com

Pro-Tech

The Pros at Flying Insect and Odor Control

Pro-Tech Livestock Corporation, located in Pinehurst, TX, offers fly and odor control products you can trust. They have a variety of solutions to problems that can be handled by using their automatic spray systems that are highly effective in eliminating flying insects in livestock facilities and other outdoor areas.

Using well-proven products and components, flying insect and odor control is made easy and efficient with Pro-Tech spray systems, which also translates to convenience for their clients.

Pro-Tech offers four different system sizes - the only company that offers such a variety, guarantee of quality and price range for their clients.

Facilities for dairy, beef cattle, equine, swine, poultry, and even veterinary benefit from the various Pro-Tech flying insect and odor control systems.

Additionally, many commercial, industrial and municipal facilities can also reap the benefits from the use of Pro-Tech's systems.

In fact, even back yard pool and patio areas –

any location where you want to control flies, mosquitoes, gnats, malodors, etc., while creating a healthier environment for you and your cherished animals.

How do they do it?

Py-Tech, the insecticide used in Pro-Tech's system, is made from pyrethrum, a natural ingredient found in chrysanthemums. This low odor insecticide effectively controls flies, mosquitoes, and other flying insects, while providing low toxicity to mammals with no unpleasant odors and no petroleum distillate fillers.

Pro-Tech's insecticide and odor control solutions are specially formulated for Pro-Tech's spraying systems with safety and performance in mind. They will not damage the seals and o-rings found throughout the pump, valves, and spray nozzles. Nor will they separate out of solution in the reservoir and tubing. Therefore, you will receive optimum performance with no nozzle clog. Using solutions other than Pro-Tech's undermines the effectiveness of the Pro-Tech system.

Turn to Pro-Tech Livestock Corporation for effective and efficient fly and odor control products. Their more than 30 years of extensive experience in the industry serves as your assurance of their knowledge in insect and odor control.

For more information, call them at 800-776-5005 or visit their website at www.ProTech-Control.com.



Chesney Distribution Inc.

Arntjen

CMP
VENTILATION TECHNOLOGIES

Zefiro

Vertigo

Energy saving brushless motor technology
Available in 1.6m (5') to 7m (23')

Galebreaker
AGRI

SCHURR
Specialty Coatings

LED LIGHTS

Doors Bay Screens Sidewall Curtains and More

2-Brush System

Contact: Allen Thompson
(226) 228-3617
chesneydistribution@gmail.com

Ingersoll Ontario
Canada

ADVERTISERS INDEX

ADVERTISER	WEBSITE	PAGE
ADM Laboratories	www.admlabs.com	32
Ag Professionals LLC	www.agpros.com	11
Agri Data Inc.	www.agridatainc.com	12
Amber Waves Harvesting		40
Amber Waves Inc.	www.amberwavesinc.com	11
American Agra Curtains, Inc.	www.americanagracurtainsinc.com	37
Beefmaster Breeders United	www.beefmasters.org	36
Bestway Sales LLC	www.bestwayag.com	23
Blair's Disc Sharpening		15
Blue Lake Plastics, LLC	www.bluelakeplastics.com	27
Blue River - IECP	www.blueriver-iecp.com	33
Boyle Combine Salvage		40
Brown Weight Valve	www.brownweightvalve.com	34
Brynsaas Sales & Service Inc.	www.brynsaas.com	21
Chesney Distribution Inc.		38
CleanFix North America, Inc.	www.cleanfix.org	21
Colfax Tractor Parts, Inc.	www.colfaxtractorparts.com	27
Colorado Hay Probe	www.udylene.com	41
Common Sense Mfg., Inc.	www.commonensemfg.com	41
CW Mill Equipment Co Inc.	www.dynahog.com	40
Dairy West	www.dairywest.com	42
Dalton Ag Products	www.daltonag.com	13
DB Mower Innovations	www.dbmower.com	26
Deaton Nutrition, Inc.	www.multisile.com	32
Duck Foot Parts	www.duckfootparts.ca	19
E Rissler Mfg. Inc.		15
Fehr Cab Interiors	www.fehrcab.com	22
Gee Tire Inc.	www.geetire.com	40
Green Cover Seed	www.greentronics.com	14
Hanson Silos	www.hansonsilo.com	24
Harbison Fencing & Brush Mowing		41
Haverkamp Combine Salvage	www.hixwoodmetalinc.com	40
Hixwood Metal, Inc	www.hixwoodmetalinc.com	41
Hoskins Manufacturing Co. Inc	www.hoskins-mfg.com	10
Indiana Warm Floors	www.indianawarmfloors.com	40
InoSol Co, LLC	www.inosol.com	35
International Ag Labs	www.aglabs.com	10
Kaddatz Auctioneering & Farm Equip.	www.kaddatzequipment.com	40
Lakey & Lakey Inc	www.lakeyandlakey.com	40
Larsen Lights	www.larsenlights.com	10
Lindquist, INC.	www.lindquistonline.com	23
Load Line Manufacturing Inc.	www.loadline.ca	41
McFinn Technologies LLC	www.lowshearpumps.com	33
Merit Seed	www.meritseed.com	7
Mike's Equipment Company	www.mikesequipment.com	41
Natural Insecto Products	www.insecto.com	18
Neogen Corp.	www.neogen.com	44
One Call of Wyoming	www.onecallofwyoming.com	3
Perry Equipment Inc	www.perry-equip.com	41
Posson Realty	www.possonrealty.net	18
Poulsen Ace Hardware	www.upsidedownpaint.com	15
Pro-Tech Livestock Corporation	www.protech-control.com	38
Rawhide Portable Corral, Inc.	www.rawhideportablecorral.com	30
Romafa Metal Works Inc.	www.romafa.com	25
Rosendahl Farms Seed & Feed LLC	www.seedandfeed.biz	31
Rowse Hydraulic Rakes	www.rowserakes.com	5
Sloan Express	www.sloanex.com	43
Spallinger Combine Parts, Inc.	www.spallingercombine.com	40
Spring Creek Ag Products		40
Stoltzfus Mfg., Inc.		34
Sundby's Trailer Sales	www.sundbytrailers.com	24
Thermosink	www.thermosink.com	29
TJ's Fencing Company	www.tjsfencingcompany.com	39
TPS Lab	www.TPSLab.com	2
TSR Parts, Inc.	www.tsrparts.com	24
Uibly Bean Knife Mfg, Inc.	www.ublybean.com	17
Udy Corp	www.udylene.com	41
Vet Tuf Industries	www.udylene.com	35
Wagner Equipment Co.	www.wagnerequipment.com	26
Washburn Company	www.hayspear.com	23
Wayne State College	www.wsu.edu	9
Wilger Inc.	www.wilger.net	7

FIBERGLASS FENCING • GATES • FREESTALLS FEED RAIL • FEED LOTS



Fiberglass freestalls offer a heightened level of comfort which leads to an increase in milk production!

WE OFFER THE MOST COMPETITIVE PRICES ON THE MARKET!

NEW PRODUCTS:

- All Solid Rail Fencing has a 20 year UV coating to prevent slivers, Colors available
- Show Fencing & Pasture fencing
- Cattle Panels & Continuous Fencing
- 1" & 1-1/4 Electric Fence Post UV Protected
- 13% Chrome Post for Head Locks & Feed Rail
- Guard Rail and Fiberglass posts.
- Lifetime warranty on our fiberglass products from rusting and rotting



Ron & Ellen Hartman Farms, Dubuque, IA
Fencing and freestalls



Matt Strieff - 600 freestalls



Steve Kaiser, Little Falls, MN - Freestalls



Gav-n-view Farms, Lansing Iowa - Fencing



Jim Thoma, Jesup IA
800' fencing

Call or check our website for dealers & all our other products!

TJ's Fencing Company
Potents Pending

Hwy. 76 • Harpers Ferry, IA
563-586-2023
www.tjsfencingcompany.com
Email: tjfence@ocegroup.cc

FAMILY OWNED FOR OVER 30 YEARS!

marketplace

AGRICULTURE



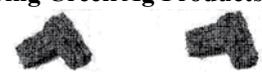
ENDURO-BRAND
Clean Cut Truck Tire
Sidewalls For Silage Cover



GEETIRE

www.EnduroBrandLivestock.com
www.geetire.com
or call **(785) 231-8397**

Tarps for all sizes of Bales
All Types hay moisture testers
R
Preservatives for hay
Spring Creek Ag Products



800-432-5672
"Delivery Available"

CUSTOM HARVESTING

HELP WANTED!
Help wanted for Harvest
from Texas to Montana.
Combine Operators and
CDL Truckers
No CDL required for combine operators
and tractor operators
ALL POSITIONS NEEDED
Call Lamar
717-377-9994

YOUR AD HERE

THE MARKETPLACE WORKS!
Call 1-800-330-3482 to get the
marketplace working for your business.

AUCTIONS



KADDATZ
AUCTIONEERING & FARM EQUIPMENT SALES
www.kaddatzequipment.com

Let us sell your surplus farm, ranch, construction and
vehicles anywhere in the USA at our online Auction!
APPRAISALS, LIQUIDATIONS, HAULING, NEW & USED PARTS, TIRES, RIMS & MORE!
254-582-3000
Kaddatz Auctioneering #TXS 6676

COMBINE PARTS

**Combine Motors
For Sale**

404T & 466T John Deere Engines
433 & 466 International Engines

Jack Boyle
Combine Salvage
Vermillion, KS
785-564-0511 • 785-294-2236

**Haverkamp Combine
Salvage**

Salvaging JD combines.
6600, 7700, 6620, 7720, 8820,
9400, 9600, 9750, 9660, 9760,
9770, S670 STS.

Have rebuilt reversers,
final drives, loading auger
gearbox.

Brian 785-927-0186

USED COMBINE PARTS
GRAIN HEADS • CORN HEADS

Many New Parts and
Bearings Available!

UPS Service - WE ARE AN A&I DEALER



**Spallinger
Combine Parts**

SINCE 1977
2325 Twp. Rd. 28, Bluffton, OH 45817
800-758-8333
www.spallingercombine.com

FLOORING



935 N 275 W Suite B
Angola, IN 46703

Snow-Melt
Systems
Radiant Heat
Geothermal
Tankless
Hot Water

Radiant Floor Heat!

- Warm, Silent & Efficient • Hot Water or Electric
- Tankless Hot Water • Slabs • Wood Floors
- Geothermal • Wood Boilers

See us at www.indianawarmfloors.com
(260) 668-8836 • 1(800) 700-8830

HAY FOR SALE

**DELIVERED TO YOUR FARM
BY THE SEMI LOAD.**

Any Size Bales. Quality Brome,
Prairie, Silage Bales & More. Also
Available For Delivery Anywhere.

Honest, Reputable Company Owned
BY An Experienced Dairyman with
30 years In The Hay Business.

LAKEY & LAKEY INC
Located 1/2 mile south of Ava, Missouri on Hwy. 5
417-683-6781
www.lakeyandlakey.com

PARTS



Call for
a Quote!
DynaHog.com

HIGH PERFORMANCE GRINDER PARTS

800.743.3491 or 785.284.3454

Screens, Hammers, Other Parts,
& Repair For SWING Hammer
Tub or Horizontal Grinders
Jones, WHO, Haybuster,
and Other Brands



Hammermill / Rotor
Electronic Balancing,
Replacement, or Repair

Numerous
Hammer Weld
Patterns Available

**WE
BUILT
CUSTOM SCREENS!**

EQUIPMENT

SALVAGING
AGCO 2270 Square Balers
 Round Balers
 Swathers
 Combines
 Tractors

**Over 8000
 Machines Parted
 Out!**

We Also Carry Many
 New & Rebuilt Parts
Mikes Equip. Co.
 Buhler, KS
 www.MikesEquipment.com
 620-543-2535
 Since 1977

EQUIPMENT

**AUGER REPAIR
 AND FLIGHTING**
 Helicoid, Sectional & Cupped
 FOR:
 • Grain augers • Feed wagons • Mixers
 • Combines • Grain dryers • Grain carts
 • Sweeps & stirring machine down augers
 No minimum. Same Day Shipment.

Perry Equipment



Perry Equipment
 115 W. 580 N., Crawfordsville, IN 47933
 765.362.4495 • 800.443.8783
www.perry-equip.com

EQUIPMENT

UDY Corporation
 5 models to choose from.

Colorado Hay Probe
 Model 2001



Stainless Steel Piercing Tip
 Re-sharpenable, Replaceable

Removable End Cap

Push Rod

Staking Tip Guard

Durable Painted Aluminum Alloy

Colorado Hay Probe
 Popular "Push In" Design
 Model 2001-See website for pricing
www.udylene.com
UDY Corporation
 201 Rome Court, • Fort Collins, CO 80524
 Voice: 970.482.2060 • Fax: 970.482.2067

EQUIPMENT

Common Sense Manufacturing




- HEAVY DUTY hydraulic wire winder
- Mounts on 3-point hitch or loader bucket
- Available in red or green
- Optional spools for Hi Tensile and Soft Electric also available

Call (605) 598-4157 (Office) or visit
www.commonsemfg.com

EQUIPMENT

LOAD LINE Manufacturers of :

Grain & Gravel Truck Boxes, End Dump Grain & Gravel Trailers, Also Bottom Dump Gravel Trailers.
 Truck Sales

Load Line Manufacturing, Inc.
 2 1/2 mi S. of Winkler
 Box 1900, Winkler, MB R6W 4B7
(204) 325-4798 Fax: (204) 325-4055
jbd@mts.net

FENCING

Harbison Fencing & Brush Mowing
 "For All Your Fencing Needs"
 Barbed Wire - Woven Wire - Silt Fence
 Vibyl Fencing - Hi Tensel
 ALSO
 Brush Mowing - CRP Fields - Timber - Trails
 Pasture Cleanup - Tree Shear - Fence Rows

Jeremy Harbison
Cell: 319-461-0376 Home: 319-694-2300

POST FRAME BUILDINGS



HIXWOOD METAL
 MANUFACTURERS OF QUALITY BUILDING COMPONENTS

We Stock:
 • Steel roofing for round roof barns
 • Dimensional lumber
 • Silverline Windows
 • CHI Overhead Doors
 • Plyco Service Doors

We specialize in complete post frame building packages.
 Call us for a quote or stop in and we will help you design.
 We rollform steel panels to exact length.

N14685 Copenhaver Ave • Stanley, WI 54768 **715-644-0765**



Save the Date for the Dairy West Annual Meeting

Join industry professionals to shape dairy's future together.

WHEN

November 10, 11, 2021

LOCATION

Boise Centre, Boise, ID

VISIT

www.dairywest.com for information



dairy west®

AT SLOAN EXPRESS, WE SEE NO COLOR.



8,000+ New Ag Parts Available At

SLOAN EXPRESS

AMERICA'S AG PARTS SUPPLIER

SLOANEX.COM • (800) 934-9777

Follow Us On Social!





Precise Dose with Every Injection

Prima-Shot™ 25 mL and 50 mL Repeater Syringes



Ideal for one-handed operation in alleyways, pens, and chute-side, the Prima-Shot 50mL and 25mL repeater syringes offer a lightweight, ergonomic design, along with rugged, durable construction for repetitive use. The easy-to-use dials adjust to 10 fixed-dose settings, and the interchangeable color tabs provide simple syringe identification.

NEOGEN.com • 800.621.8829 • (USA/Canada) • 859.254.1221

NEOGEN Corporation, 2020. NEOGEN is a registered trademark and Prima-Shot is a trademark of NEOGEN Corporation.