

# ***Western Farm, Ranch & Dairy***

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

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

**Moen's Mouse-Mix...  
Keeping it “All in the Family”**



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



[www.FarmRanchDairy.com](http://www.FarmRanchDairy.com)



# TIME YOUR APPLICATION FOR THE BEST OUTCOME.

Protect your stored potatoes with a custom plan based on your unique circumstances, but backed by our years of storage success with growers. IVI offers the largest inventory of application options in the U.S.A.

Leverage our expertise to your advantage, from storage entry to exit, and all points between.

IVI SAMPLE STORAGE APPLICATION TIMELINE

HARVEST	SUBERIZATION PERIOD — Apply 24-72 hrs. after doors close	OCT-DEC	JAN	FEB-APR	MAY-JULY
PILER APPLICATIONS	STORAGE APPLICATIONS				
BIO-SAVE	JET AG & DECCO SAN 5	CIPC		CIPC — Second application	
TSUNAMI	PURIGENE		SPROUT TORCH / 1,4 ZAP & DECCO AEROSOL 100	— Blacking sprout eyes	
RESIST 57	FRUITGARD WIPEOUT			1,4 SIGHT (DMN) — Cut Black savings	
	1,4 SIGHT (DMN)			1,4SEED	
			FRUITGARD C <sub>10</sub> — Slow release drums		

## PIN NIP 1,4SIGHT

- DMN
- DORMANCY ENHANCER
- CUT BLACK SAVINGS
- THERMAL FOGGING

## PIN NIP 98.6 & DECCO 271

- CIPC
- SPROUT SUPPERSENT
- THERMAL FOGGING

## PIN NIP SPROUT TORCH & DECCO AEROSOL 100

- CLOVE OIL, 100% ORGANIC
- BLACKING SPROUT PEEPERS
- THERMAL FOGGING

## PIN NIP 1,4SEED

- DMN
- DORMANCY ENHANCER
- THERMAL FOGGING

## JET-AG & DECCO SAN 5

- PAA
- SANITIZER/DISINFECTANT
- THERMAL FOGGING

## PURIGENE

- C<sub>10</sub>
- SANITIZER/DISINFECTANT
- THERMAL FOGGING

## RESIST 57

- PHOSPHOROUS ACID
- FUNGICIDE VS. PINK ROT
- HARVEST/PILER APPLICATION

## TSUNAMI

- PAA
- SANITIZER/DISINFECTANT
- HARVEST/PILER APPLICATION

## BIO-SAVE

- ORGANIC
- BIOLOGICAL CONTROL
- DRY ROT CONTROL
- HARVEST/PILER APPLICATION

## FRUITGARD WIPEOUT

- C<sub>10</sub>
- SANITIZER/DISINFECTANT
- DRY GAS APPLICATION
- SAFE & EASY

## FRUITGARD SLOW RELEASE

- C<sub>10</sub>
- SANITIZER/DISINFECTANT
- DRY GAS APPLICATION



**iVi**

INDUSTRIAL VENTILATION, INC.

1-208-463-6305 | [ivi-air.com](http://ivi-air.com)



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

**Visit [OneCallOfWyoming.com](http://OneCallOfWyoming.com) or dial 811 for more information.**



# contents

## Western Farm, Ranch & Dairy

Rocky Mountain/Heartland • Fall-Winter Edition 2021

### Agriculture

Wayne State College Offers Multiple Paths to Excellent Careers in Agriculture .....	6
Amber Waves – Your perfect solution for all your dry bulk and liquid storage needs. ....	8
One-Call of Wyoming .....	10
Dalton Ag Products: Simple. Durable. American. ....	11
Natural Insecto Products .....	12
Avoiding Disaster With Industrial Hemp: Managing Plant Stress Is The Key .....	14
Moen's Mouse-Mix... Keeping it "All in the Family" .....	17

### Equipment

Stainless Steel Air Seeder Parts	
The solution to your corrosion problems! .....	20
VLP: Now An EquipmentShare Company .....	21
Economize on Equipment Costs with a New Kit from Fehr Cab Interiors Co. ....	22
Manchester Manufacturing Company .....	24

### Livestock

Beefmaster Heterosis Can Impact Any Herd .....	28
Deaton Nutrition Inc.	
How Multi-Sile II Inoculant can save your money .....	29
Rawhide Portable Corral to blend the Old with the New .....	30

### Departments

Advertiser Index .....	25
Marketplace .....	32

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

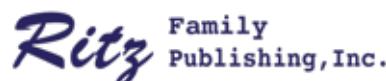
Brenda Stoner  
brenda@ritzfamilypublishing.com

### Office Manager

Chelsea Pierce  
chelsea@ritzfamilypublishing.com

### Sales

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



### 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.

## 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



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

**TJ's Fencing Company**  
Patents Pending

**FAMILY OWNED FOR OVER 30 YEARS!**

Hwy. 76 • Harpers Ferry, IA  
**563-586-2023**  
[www.tjfencingcompany.com](http://www.tjfencingcompany.com)  
Email: [tjfence@acegroup.cc](mailto:tjfence@acegroup.cc)

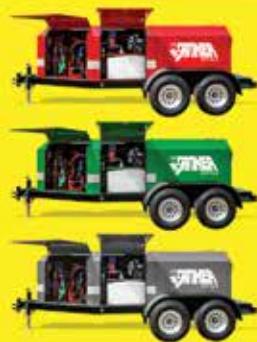
# FUEL



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](http://www.bestwayag.com).

PASTURE  
SPRAYERS-

300, 500, 1000 Gallon  
Models Available



## BESTWAY AG

[WWW.BESTWAYAG.COM](http://WWW.BESTWAYAG.COM)

HOPKINSVILLE, KY   HIAWATHA, KS   GREENWOOD, MS  
270-887-8550   877-390-4480   800-392-7440

OLIVE BRANCH, MS   INVERNESS, MS  
866-776-8265   662-265-5841

# agriculture

## 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.

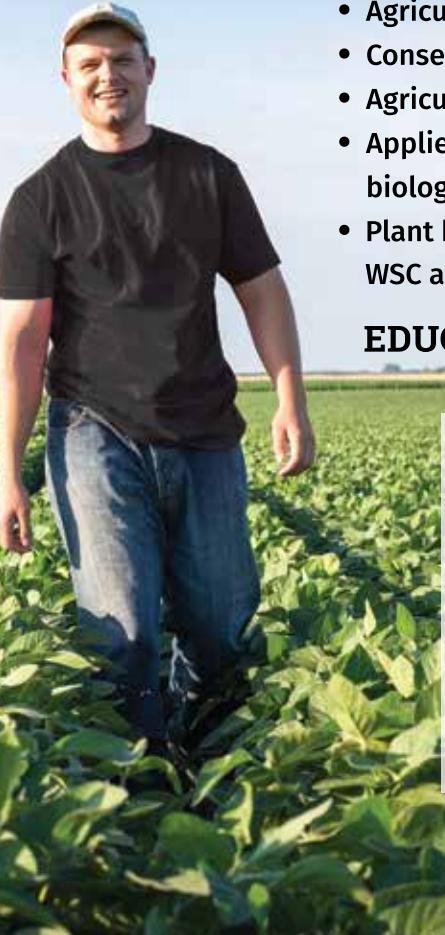
Program candidates will begin their education with coursework at WSC, then finish the degree with UNL while remaining, if they desire, in Northeast Nebraska to complete the final year online or in a laboratory setting. With these degrees, graduates will be prepared for careers in everything from animals 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 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](http://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](http://WWW.WSC.EDU) • Member, Nebraska State College System

**Amber Waves**  
Richardton, ND

## Secure Storage Solutions



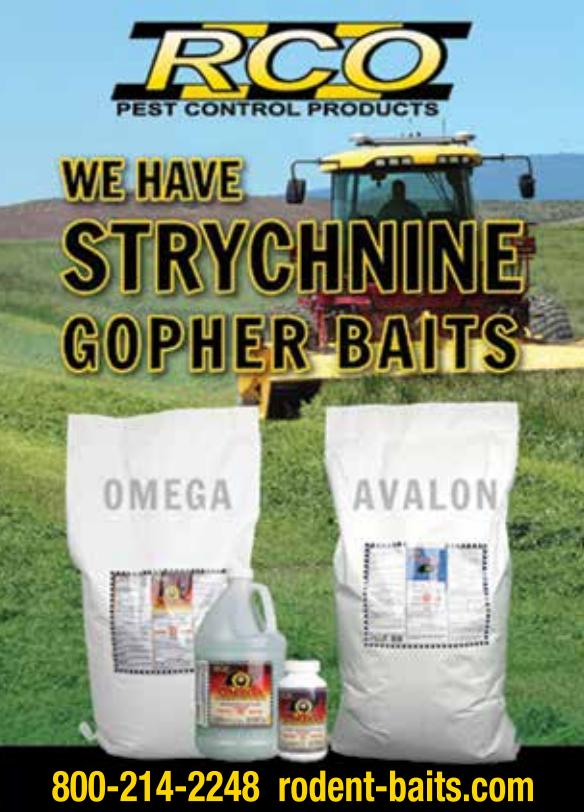
- Hybrid Stainless Steel Bins, used in dry fertilizer and food grade applications
- Multi-Purpose Bins, use them for Grain, Seed, Feed, Fertilizer and much more
- Custom designed silos for Breweries, Frac Sand Storage, Cleaning and Bagging operations, Overhead Cake Bins

*Custom Quality Bins Mfg. in the USA*

11 So. Ave. W., Richardton, ND 58652  
**866-859-2193**  
[sales@amberwavesinc.com](mailto:sales@amberwavesinc.com)  
[www.amberwavesinc.com](http://www.amberwavesinc.com)

**RCO**  
PEST CONTROL PRODUCTS

**WE HAVE  
STRYCHNINE  
GOPHER BAITS**

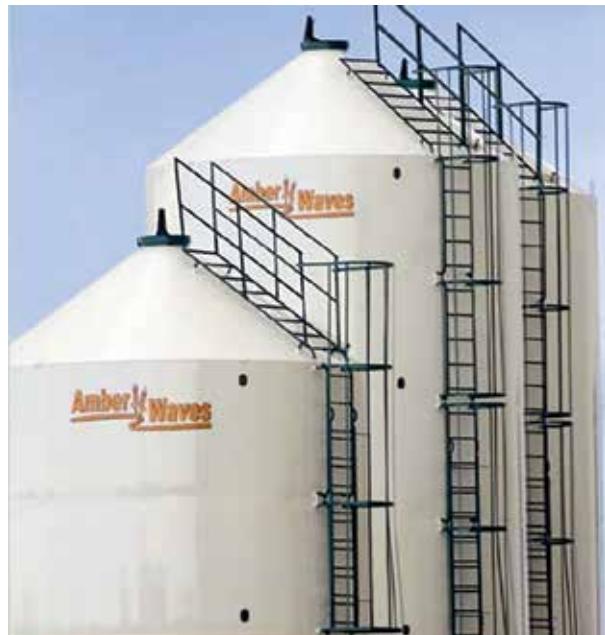


800-214-2248 [rodent-baits.com](http://rodent-baits.com)

# 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](http://amberwavesinc.com).



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

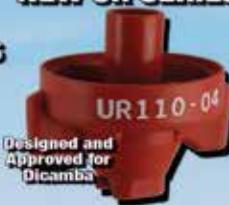
Physical Address: Mailing Address:  
4759 TR 366 • Millersburg, Ohio 44654 PO Box 205 • Berlin, Ohio 44610

[www.meritseed.com](http://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

FOR INFO, CALL (877) 968-7695

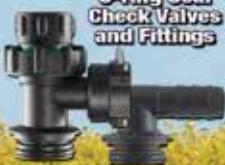


OR VISIT

[www.WILGER.NET](http://www.WILGER.NET)



**NEW  
ISO Color  
Coded ORS  
Metering  
Orifices**



**Full Line of  
O-ring Seal  
Check Valves  
and Fittings**

**MANUFACTURER OF  
WORLD CLASS  
SPRAYING COMPONENTS**

# One Call of Wyoming

One Call of Wyoming is a nonprofit organization that administers the 811 notification center within the state of Wyoming. Any entity within the state that owns/operators 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 by dialing 811 in Wyoming or from out of state dial 1-800-849-2476 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. Submit your request online at [www.onecallofwyoming.com](http://www.onecallofwyoming.com) or dial 811 from within Wyoming, or if calling from out of state please dial 1-800-849-2476 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

## WHY CHOOSE SCHERGAIN?

**TIME**

You've put in the time, expense and effort of growing the best crop you can all season. We don't want you jumping in your combine using the OEM settings, thinking your loss is acceptable.

**QUALITY**

We want you to be sure you are putting all the crop possible in the bin. With ScherGain, you can increase your chances of doing just that. Afterall, you've grown it, so make sure to harvest it.

**PROCESS**

If you have a loss monitor, it must be calibrated for accuracy. ScherGain has made this process simple and easy. We have created a standard that everyone can use and understand.

**ScherGain Solution System Package**

**Ask Now About Pricing!**

✓ ScherGain Drop Pan	✓ Grain Gauge
✓ Two Remotes	✓ Loss Chart
✓ Battery	→ Order Now!

**Perfect for farmers, seed growers, agronomists, equipment dealers, seed companies & more.**

**@ScherGain**

**www.schergain.ca**

# 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. 

A tractor is pulling a blue Dalton Ag liquid fertilizer applicator through a field. The applicator has a long blue toolbar with several nozzles. The tractor is a modern four-wheeler with a cab. In the background, there is a white tank and some trees. The Dalton Ag logo is prominently displayed in the upper left corner of the image area.

MANUFACTURER OF FERTILIZER APPLICATION EQUIPMENT

*Dry Fertilizer Spreaders, NH<sub>3</sub> Toolbars, Liquid Applicators, Running Gears, Nurse Trailers and Custom Row Units*

 Find Us On Facebook!

1-800-342-7498

WWW.DALTONAG.COM

# Natural Insecto Products

**I**NSECTO is an insecticide alternative to chemical poisons 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 of 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](http://www.insecto.com), [insecto7@earthlink.net](mailto:insecto7@earthlink.net)

## INSECTO



### 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  
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](http://www.insecto.com)

[insecto7@earthlink.net](mailto:insecto7@earthlink.net)

**OMRI**  
Listed  
Organic Materials  
Review Institute

See your  
distributor,  
call below.

## 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](mailto:info@colfaxtractorparts.com)

[www.colfaxtractorparts.com](http://www.colfaxtractorparts.com)

**800-284-3001 • COLFAX, IOWA**

Watch your profits grow with a Non-GMO crop!



Watch your profits grow with a Non-GMO crop!

Premiums being paid for Non-GMO corn.

The Leaders in Non-GMO Technology



De Dell Seeds • 7095 Century Drive • Melbourne, ON • N0L 1T0  
P: 519-264-CORN (2676) • F: 519-264-2672

info@dedellseeds.com • www.dedellseeds.com

## 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](http://www.aglabs.com) or by Calling  
MerriDee at 507-235-6909



formerly known as Mur-Tex Fiberglass

511 SW 48th Ave.,  
Amarillo, TX 79110

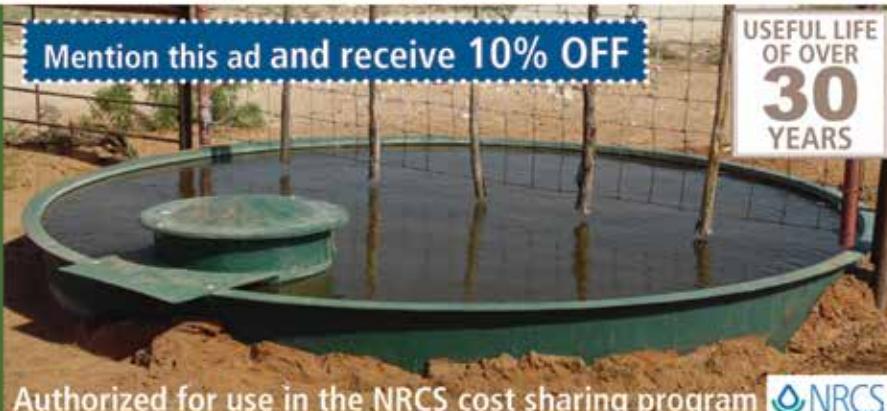
**806-373-7418**

[www.powerpipeandtank.com](http://www.powerpipeandtank.com)  
infoRFQquotes@powerpipeandtank.com



### FIBERGLASS TANKS

- Light and easy to relocate
- Will never rust or corrode
- Anti-skid, non-slip bottom



Authorized for use in the NRCS cost sharing program 

**STOCK • STORAGE • CUSTOM • POTABLE  
OIL & GAS • FERTILIZER • ENVIRONMENTAL**

# 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. Photo-periodic 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 dependent 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 composted. 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 under watering, 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 under watering 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.



**ACRES USA  
2021 ECO-AG**  
CONFERENCE & TRADE SHOW

Our 40th Year!

## INNOVATIVE & PRACTICAL EDUCATION IN MODERN ECO-AGRICULTURE

CINCINNATI, OHIO | DEC. 6-9, 2021

John Kempf • Nicole Masters • Fred Provenza • Judith McGahey • Mark Shepard • John Ikerd • Paul Dorrance • Reginaldo Haslett-Marroquin • Doug Fine • Don Huber • André Leu • Rick Clark • Marty Travis • and more!

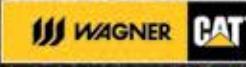
[ECOAG.ACRESUSA.COM](http://ECOAG.ACRESUSA.COM)  
(970) 392-4464 (M-F)



## WAGNER USED EQUIPMENT – READY TO WORK!

For a complete list of our available used inventory visit:  
[WagnerUsedEquipment.com](http://WagnerUsedEquipment.com)

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



2015 CHALLENGER MT655E  
\$186,500



2009 CAT 924H  
\$81,000



2014 CAT 236D  
\$35,500



2009 CHALLENGER MT555C  
\$110,000



2015 CAT 908H2  
\$65,000



2015 CAT 259D  
\$39,500



2014 CHALLENGER MT575B  
\$148,200



2014 CAT 938K  
\$185,000

Soil microbes live on and around plant roots and interact with roots in several important ways. 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 Marijuana) 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

**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

2007 MF 583 w/Loader, 4-WD, 80 HP, 4,800 Hrs., 2 Remotes, 540 PTO ..... \$38,000	1983 JD 2255 w/Loader, 2-WD, 55 HP, TSS w/Lift Hand Reverser, Range, 2 Remotes, 4,217 Hrs., 540 PTO ..... \$16,000	2007 JD 6120L, 2-WD, 84 HP, Quad Range, 2 Remotes, 4,217 Hrs., 540 PTO ..... \$18,500	(2) Used McHale Fusion 3 Plus, Low Bale, Fixed Chamber Baler & Vertical Wrapping Ring, Fully Automatic ..... \$100,000 Choice
New Cadman 4000SWB, 4x1,250' Hose, Tandem Axle, Honda Motor, Gun Cart ..... \$42,000	1993 Kenworth T600B w/20' Parma Silage Box, Barn Doors, 10 Spd., Detroit 60 Series ..... \$29,250	Custom Built Liquid Manure Pumping System, Comell Pump, Crane, Hyd. Feeder Pump, 400 HP, Capable Of 2400 GPM ..... \$43,000	COMING SOON 1995 Ford 8970, MFWD, 8,915 Hrs., PowerShift 1980 IH 186, Hydro, 2-WD, 4,626 Hrs. 1995 White 8195, 4-WD, 2,964 Hrs., PowerShift 1990 JD 4255, 4-WD, 6,241 Hrs., PowerShift 1988 JD 4255, 4-WD, 7,807 Hrs., PowerShift 1987 JD 4450, 4-WD, 7,745 Hrs., PowerShift

**VISIT OUR NEW LOCATION**

**TJ EQUIPMENT LLC**  
www.tjequipmentllc.com

343 W. Wiser Lake Rd.  
Ferndale, WA 98248  
(360) 305-3239

**Vermeer**

# Moen's Mouse-Mix... Keeping it "All in the Family"

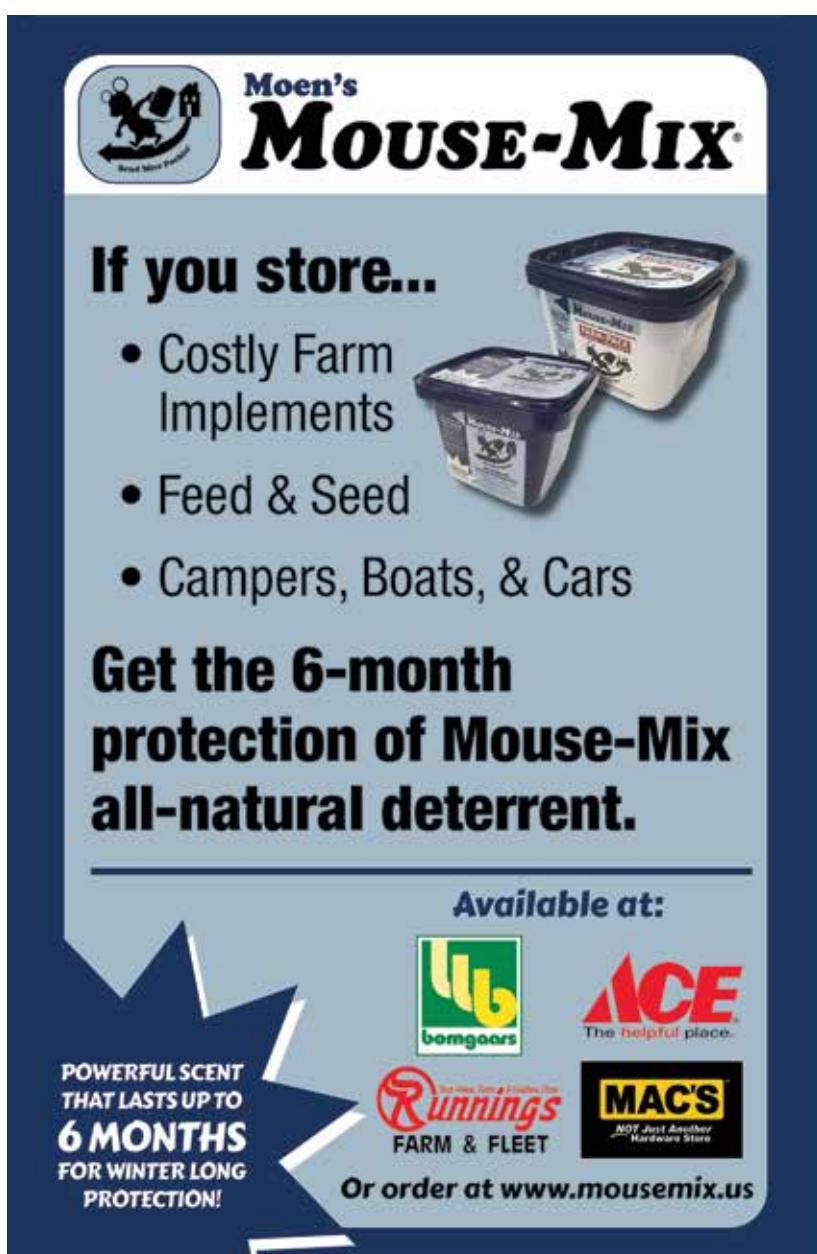
**M**ouse-Mix pest deterrent was created by Tim Moen's mother in West Fargo, ND about twenty years ago. Tim grew up with his parents dragging him and his older sister to art and craft shows and festivals since Tim was three. "My mother was always into crafts. She did candle making and macrame in the 70's, silk flower arrangements in the 80's". Tim's mom was tending a large garden and making her own potpourri when she also created and began selling Mouse-Mix with the potpourri. "I initially teased Mom about her Mouse-Mix creation telling her it was snake oil and didn't work and that she should stick to her potpourri. Then one night, my wife came upstairs from our basement laundry room saying she had just seen a mouse run under the dryer". This started a two-week war waged against the mice for Tim. "I was trapping sometimes three mice a night and my wife wouldn't even go downstairs to do laundry until I checked our trap line." Tim tried finding and plugging any tiny hole in the foundation with steel wool and calking to no avail...the mice just kept getting into the basement and were also pooping and peeing all over Tim's workbench and shelves in the garage.

"My parents were coming to our home in the Twin Cities area from North Dakota to do one of Mom's craft shows. I told her to "bring me some of that mouse junk you're peddling." I put it out generously in the basement and garage and to my pleasant surprise, we were mouse-free in about two days. The stuff works!

Sadly Tim's mom, Carol was diagnosed with Alzheimer's disease and had to quit the art and craft festivals she had loved doing for nearly fifty years. Tim was a high school Art teacher for nearly twenty years. He knew Mouse-Mix could be huge and didn't want to see it go away like Mom's potpourri. Tim drew the logo and designed packaging and now it is more than a full-time job to bring Mouse-Mix to homeowners, gardeners,

farmers, camper, cabin and boat owners. "There are many types of customers we help and we have three different products with different strength levels working on mice, rats, bats, squirrels, deer, rabbits, moles & voles plus more. We also donate a large amount of our income to

the Alzheimer's Association in Mom's name and are very proud of her legacy and Mouse-Mix. I love doing the trade shows, art & craft festivals, and talking to the customers one-on-one because in this world, you either have mice or you know someone battling mice"! 



**Moen's  
MOUSE-MIX®**

**If you store...**

- Costly Farm Implements
- Feed & Seed
- Campers, Boats, & Cars

**Get the 6-month protection of Mouse-Mix all-natural deterrent.**

**Available at:**

**POWERFUL SCENT THAT LASTS UP TO 6 MONTHS FOR WINTER LONG PROTECTION!**

**bomgaars**

**Running's FARM & FLEET**

**MAC'S**  
NOT Just Another Hardware Store

**Or order at [www.mousemix.us](http://www.mousemix.us)**

# equipment



Photo courtesy of USDA NRCS.

**CLARKS AG SUPPLY**



308-548-2555

The Most FARMER FRIENDLY SYSTEM  
on the Market Today!



## *The Three Box Lo-Pro* **EASILOAD SEED SYSTEM**



CMC® Grain Gauge™ Bin Monitor



- Read the level of your grain from the ground
- Easy to Install
- No Batteries, No Electricity

### **The Only Seed System Available With:**

- Safe, low-profile design
- Available in 2, 3, 4, 6 box units
- 120, 200, & 300 unit bulk
- Double axle brakes
- Built like a seed tender
- Finger tip seed control
- Scale options available
- Estart Honda motors
- Powder coat paint
- Fabricated by certified welders
- Reaches any planter or drill
- Patented Easiloc lock down

**866-246-2588 • [www.clarksagsupply.com](http://www.clarksagsupply.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](http://www.cleanfix.org)

# **Stainless Steel Air Seeder Parts**

## **The solution to your corrosion problems!**

**R**omafa 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](http://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!

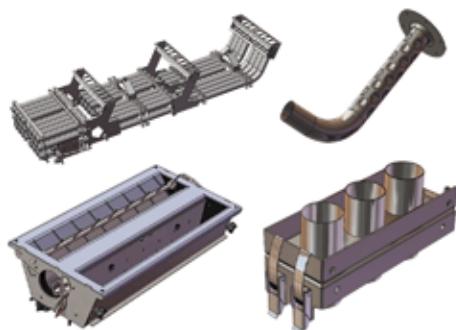
#### **WE MANUFACTURE REPLACEMENT AIR SEEDER PARTS FOR EQUIPMENT FROM:**

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](mailto: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](http://www.ROMAFA.com)

# VLP: Now An EquipmentShare Company

## Dealership Roots:

Established in 1911 as a heavy equipment dealer, Victor L. Phillips Company (VLP) has a long history of serving mid-Missouri construction and heavy equipment markets. In 2020, the company joined forces with EquipmentShare, a fast-growing nationwide construction technology company, to enhance its products and solutions for customers and help them build better. EquipmentShare's mission is to bring full visibility to the construction jobsite and give contractors more control over their day-to-day operations through technology adoption.

## 2021 Key Initiatives:

More than a rental company, EquipmentShare plans to outfit all retail equipment with its powerful fleet management technology to help contractors monitor, maintain and manage

their fleet. Currently, EquipmentShare's rental fleet comes standard with the technology, which can also be outfitted on a contractor's owned assets —



VLP [www.vlpco.com](http://www.vlpco.com) CASE

regardless of make or model — to give them full visibility into their mixed fleet (rented, owned and new purchases) all with one system.

## Customer Base:

Located in the heart of the country, we serve a diverse customer base ranging from small businesses to large commercial companies. We are excited to provide our customers with the tools they need to take part as this sector continues to rebound and grow.

## Community Activism:

Our company is not only dedicated to helping our customers build better, but we are also committed to building up and bettering our communities. Our company partners with several charitable organizations to help those in need, focusing on veteran and service member support, nutrition and wellness, cancer research, disaster recovery, and personal improvement and mentorship. We also work closely with local food banks in each of our markets, nationwide.

16

VLP

**CASE**  
CONSTRUCTION

Farm, Ranch or Dairy... we've  
got you covered



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

**A**s 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](http://www.fehrcab.com). Quality materials and superior service is what makes a **Fehr Cab** kit the best value.



JD 55/60 Srs on Plastic

## 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**   
**Headliners** 

**Floor Mats** 

**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](http://fehrcab.com)**

 **FCI** **FehrCab** **Interiors Co.** 

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](mailto:sales@fehrcab.com) [www.fehrcab.com](http://www.fehrcab.com)

**NEED A  
BALE SPEAR?**

We Have 18 Models  
Available Starting  
At \$75.00/Spear!!

**HAYSPEAR.com**



Universal 8295,  
\$560.00



JD 600-700 to Skidsteer  
\$780.00



WASHBURN COMPANY  
Skidsteer 2 Spear  
\$600.00

Mention this  
AD and receive  
5% OFF YOUR  
TOTAL ORDER

**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

**TOTE-TOP**

**MEGA FUNNEL®**

U.S. Pat. No. 10,822,139

Clean Up Your  
Waste Oil  
Collection  
Area With the  
**Tote-Top**  
**MEGA**  
**FUNNEL**



made of HDPE

- Turn old totes into a waste oil collection system
- Giant Funnel sits on top of your IBC Tote
- Holds oil pans, funnels, filters, etc.
- No-mess design – Complete drain-off
- Clean, simple, affordable system
- Fits 48"x40" totes (Tote Not Included)

**RED ROCK ENTERPRISES, LLC**

West Bend, WI 53090 ~ 608.354.7581

redrocksales2017@gmail.com ~ www.facebook.com/megafunnel

[www.ToteTopMegaFunnel.com](http://www.ToteTopMegaFunnel.com)

## ***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 8, Vertical Super Pump;  
8' 6" Vertical Pump; Trailer; Twin  
PTO Option; New Condition

Call



**BRYNSAAS**

SALES & SERVICE INC.

563-382-4484

**(888) 681-2644 Decorah, IA**  
Complete List Of Inventory... [www.brynsaas.com](http://www.brynsaas.com)



engineering for  
a better world

# Manchester Manufacturing Company



**Celebrating 102 Years**

Manufacturing the following products:

- Force Feed Feeder Chains\* • Grain Raddles\*

\*Available For All Combines

- Weed Wiper Front Mount Boom Systems

- Custom Built Trailers

**For more info please call: 580-694-2292**

**Manchester Manufacturing Co.**

1647 Main St. • PO Box 36 • Manchester, OK 73758-0036

[www.manchestermfg.com](http://www.manchestermfg.com)

Manchester Manufacturing Company has been engineering grain harvesting innovations since 1919. Force Feed Feeder Chains, Hillside Raddles, Plastic Inserts, and Weed Wipers are available. We can help your grain feeding problem. Available for ALL combines.

If your combine won't feed at the auger, especially in short, weedy or tangled crops, it's because it isn't feeding at the cylinder. We solved the problem by designing a slat with a flap on it. Each slat on our Force Feed Feeder Chain works like a beater to feed material into the cylinder.

Our Hillside Raddle holds grain while harvesting on a hillside. The Hillside Raddle has patented lugs attached to the steel slats. These lugs prevent grain from sliding to the downhill side of the raddle pan before it reaches the chaffer, thus preventing overloading of the lower side of the chaffer sieve and cleaning shoe. We can replace your wooden slat raddles with steel slat raddles on all Gleaners built before 1971.

The Plastic Inserts convert the Force Feed Feeder Chain to an all-purpose chain to harvest all crops. They are ideal for grain stripping headers, handling only the grain and not the stalk and straw. They prevent wear on the feeder house floor, splitting, cracking, crushing of grain.



**WE ARE PROUD  
TO ANNOUNCE**  
we are a Linde Service Center and a  
Linde Distributor in North America.  
We have the firsthand  
knowledge of exactly  
what you need

Linde Hydraulics

**Linde**

Call us for your next hydrostatic needs  
We are steps above the rest in

**Performance • Productivity • Dependability • Lastability**

The Manchester Weed Wiper is the perfect solution for eliminating nuisance weeds from your crops. It works excellent on rye, weeds, Johnson grass, or any growth above your crop to be harvested. Available in a front mount boom system.

6

# ADVERTISERS INDEX

ADVERTISER	WEBSITE	PAGE
Acres USA	www.acresusa.com	15
Amber Waves Inc.	www.amberwavesinc.com	8
Beefmaster Breeders United	www.beefmasters.org	28
Bestway Sales LLC	www.bestwayag.com	5
Blair's Disc Sharpening		16
Blue River - IECP	www.blueriver-iecp.com	27
Boyle Combine Salvage		32
Brynsaas Sales & Service Inc.	www.brynsaas.com	23
Clarks Ag Supply	www.clarksagsupply.com	19
CleanFix North America, Inc.	www.cleanfix.org	19
Colfax Tractor Parts, Inc.	www.colfaxtractorparts.com	12
Colorado Hay Probe	www.udyone.com	33
Common Sense Mfg., Inc.	www.commonsensemfg.com	33
CW Mill Equipment Co Inc.	www.dynahog.com	32
Dalton Ag Products	www.daltonag.com	11
De Dell Seeds Incorporated	www.dedellseeds.com	13
Deaton Nutrition, Inc.	www.multisile.com	29
Eagle Industry LLC	www.eaglefueltrailer.com	35
Fehr Cab Interiors	www.fehrcab.com	22
Hanson Silos	www.hansonsilo.com	33
Harbison Fencing & Brush Mowing		33
Haverkamp Combine Salvage		32
Hixwood Metal, Inc.	www.hixwoodmetalinc.com	33
Hoskins Manufacturing Co. Inc.	www.hoskins-mfg.com	14
Indiana Warm Floors	www.indianawarmfloors.com	32
Industrial Ventilation Inc.	www.iv-air.com	2
International Ag Labs	www.aglabs.com	13
L & H Branding Irons	www.lhbrandingirons.com	29
Lakey & Lakey Inc.	www.lakeyandlakey.com	32
Larsen Lights	www.larsennights.com	25
LG Pumping LLC		32
Lindquist, Inc.	www.lindqustinconline.com	25
Load Line Manufacturing Inc.	www.loadline.ca	33
Manchester Mfg. Company	www.manchestermfg.com	24
McFinn Technologies LLC	www.lowshearpumps.com	27
Merit Seed	www.meritseed.com	9
Mike's Equipment Company	www.mikesequipment.com	33
MJ Hydrostatics, Inc.	www.mjhydrostatics.com	24
Moen's Mouse-Mix, LLC	www.mousemix.us	17
Natural Insecto Products	www.insecto.com	12
One Call of Wyoming	www.onecallofwyoming.com	3
Poulsen Ace Hardware	www.upsidedownpaint.com	31
Power Pipe & Tank	www.powerpipeandtank.com	13
Rawhide Portable Corral, Inc.	www.rawhideportablecorral.com	30
RCO Pest Control Products	www.rodent-baits.com	8
Red Rock Enterprises, LLC	www.totetopmegafunnel.com	23
Riceland Foods Inc	www.riceland.com	31
Romafa Metal Works Inc.	www.romafa.com	20
ScherGain Solution System	www.schergain.ca	10
Sloan Express	www.sloanex.com	34
Spallinger Combine Parts, Inc.	www.spallingercombine.com	32
Spring Creek Ag Products		32
Stoltzfus Mfg., Inc.		30
Sundby's Trailer Sales	www.sundbytrailers.com	31
Tigerco Distributing Co.		32
TJ Equipment LLC	www.tjequipmentllc.com	16
TJ's Fencing Company	www.tjsfencingcompany.com	5
TPS Lab	www.TPSLab.com	36
Udy Corp	www.udyone.com	33
Victor L Phillips Co.	www.vlpco.com	21
Wagner Equipment Co.	www.wagnerequipment.com	15
Washburn Company	www.hayspear.com	23
Wayne State College	www.wsu.edu	7
Wilger Inc.	www.wilger.net	9

## 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.lindqustinconline.com



**LINDQUIST**

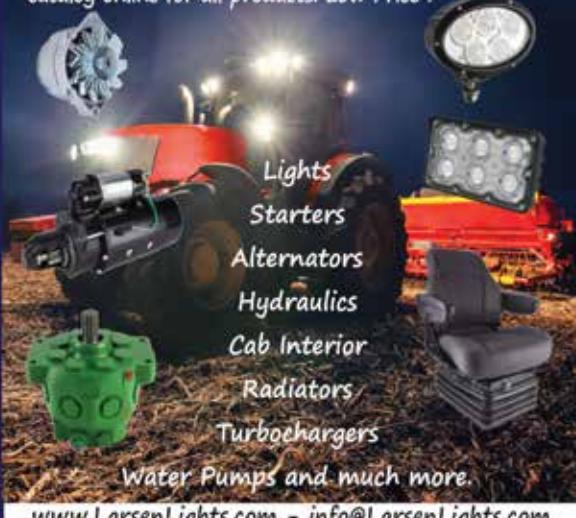
YOUR SOLUTION FABRICATOR

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

## 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 !



Water Pumps and much more.

[www.LarsenLights.com](http://www.LarsenLights.com) - [info@LarsenLights.com](mailto:info@LarsenLights.com)

Phone 1-833-544-4872 or 507-516-7113

# livestock



Photo courtesy of USDA NRCS.



## Milk Receiver Pumps



A  
3



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](http://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](http://WWW.BLUERIVER-IECP.COM)

BLUERIVERIECP@YAHOO.COM

866-588-2211



# Beefmaster Heterosis Can Impact Any Herd

**B**eefmaster 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](http://www.beefmasters.org).



PROVEN MATERNAL.



PROVEN EFFICIENCY.



PROVEN HETEROGENEITY.

# Deaton Nutrition Inc.

## How Multi-Sile II Inoculant can save your money

**A**fter 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 a 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 a 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](http://www.multisile.com)

**Multi-Sile II**

**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](http://www.multisile.com) [deatonnutrition@dishup.us](mailto:deatonnutrition@dishup.us)

## We've Got Your Brand

Custom Made To Match Your Brand Identification, electric, freeze or fire heated branders in any size, shape or design. We also make number brands that are great for production testing.

- ELECTRIC BRANDERS
- FREEZE BRANDERS
- FIRE HEATED BRANDERS
- STAINLESS STEEL BRANDERS
- DEHORNERS
- CORPORATE BRANDERS

**L & H**  
BRANDING IRONS



410 6TH ST. S.E. • MANDAN, ND 58554

**800-437-8068**

[www.lhbrandingirons.com](http://www.lhbrandingirons.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

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



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

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

**The First Hydraulic Corral  
and still the Largest!**

**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](http://rawhideportablecorral.com)

**CATTLE FEEDERS ON WHEELS**  
**MANY MODELS TO CHOOSE FROM**

- Single Trough
- Slant Bar 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
- Double Trough
- Headlock Feeders

**DEALER INQUIRIES WELCOME**

**STOLTZFUS MFG INC.**  
STOYSTOWN, PA  
**Call James • 814-893-5086**  
**[kw@ibyfax.com](mailto:kw@ibyfax.com)**

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](http://www.rawhideportablecorral.com) or find us on Facebook. Phone # 785-263-3436.

# RICE FEED INGREDIENTS TO FIT YOUR NEEDS



**Quality Products  
Dependable Service and Availability**



**Defat Bran**  
**16/80 Ground Rice Hulls**  
**20/80 Ground Rice Hulls**  
**50# Unground Rice Hulls**

**RICELAND**  
Rice Feed Ingredients/Co Products Division  
Attn: Nikki Reichenbach/Sales Manager  
Email: [nmrreichenbach@riceland.com](mailto:nmrreichenbach@riceland.com)

**(870) 673-5575 • [www.riceland.com](http://www.riceland.com)**  
P.O. Box 927 • Stuttgart, AR 72160

# Sundby's Trailer Sales



**Call Us Today!  
218-445-5849**

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



**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!**



16498 US HWY 10 VERNDALE, MN 56481  
 VISIT US ONLINE AT [WWW.SUNDBYSTAILERS.COM](http://WWW.SUNDBYSTAILERS.COM)



**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@poulseneacehardware.com](mailto:kurt@poulseneacehardware.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.**

**Drop shipped from the factory FREIGHT FREE!**

[\*\*upsidedownpaint.com\*\*](http://upsidedownpaint.com)



**Available in 17 colors!**

**RUST-OLEUM**  
• TRUSTED QUALITY SINCE 1925 •



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

[www.farmranchdairy.com](http://www.farmranchdairy.com)

Rocky Mountain/Heartland

Western Farm, Ranch and Dairy • 31

# marketplace

## AGRICULTURE



### Custom Manure Application

Call: Jason or Steve

**402-748-3356**

Osmond, NE 68765

## 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

## EQUIPMENT

**LOOK TO AITCHISON**  
For the Best No-Till Forage Drill at the **BEST** Price

REESE HAY MOWERS

Only 5 moving parts and no gear box

**TIGERCO**  
**(800) 432-4020**



## 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](http://www.lakeyandlakey.com)

## PARTS

**Dynahog.com** Call for a Quote!

**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 BUILD CUSTOM SCREENS!

## 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](http://www.indianawarmfloors.com)  
(260) 668-8836 • 1(800) 700-8830

### 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 Tap Rd. 28, Bluffton, OH 45817

**800-758-8333**

[www.spallingercombine.com](http://www.spallingercombine.com)

## YOUR AD HERE

### THE MARKETPLACE WORKS!

Call 1-800-330-3482 to get the marketplace working for your business.

## 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](http://www.MikesEquipment.com)  
620-543-2535  
Since 1977

## EQUIPMENT

### FARM LIKE YOU MEAN IT

**EASYRAKEFACER.COM**



**NO MOVING PARTS - WILL NOT BREAK  
MAINTAIN CUT LENGTH - BETTER FEED  
STAY IN THE CAB - NO HYDRAULICS**

**CALL FOR YOUR DEMO TODAY**



## 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](http://www.commonsemfg.com)

## 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**

## EQUIPMENT

**UDY Corporation**  
Scientific Equipment

5 models to choose from.

**Colorado Hay Probe**



Manufactured by UDY Corporation

**Colorado Hay Probe Model 2001**

Stainless Steel Piercing Tip  
Re-Sharpenable  
Replaceable



Durable Painted Aluminum Alloy



Colorado Hay Probe  
Popular "Push In" Design  
Model 2001-See website for pricing

[www.udyonc.com](http://www.udyonc.com)

**UDY Corporation**

201 Rome Court, • Fort Collins, CO 80524  
Voice: 970.482.2060 • Fax: 970.482.2067

## 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](mailto:jbd@mts.net)

## POST FRAME BUILDINGS



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.

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

N14685 Copenhaver Ave • Stanley, WI 54768

**715-644-0765**

# 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!





## X980 Service Trailer

### TRAILER SPECIFICATIONS

- Bolt on Fenders for Easy Replacement
- Stainless Steel Rock Guard
- Tandem 7K Dexter Torsion Axles with Electric Brakes
- LED Lights • Powder Coated Finish
- Adjustable 2 5/16" Hitch Coupler • 7K Bolt-on Jack
- Aluminum rims with 235/85 R16 14 ply tires

### DEF SPECIFICATIONS

- 100 gallon tank
- 50 ft. 3/4" hose with retractable reel and auto nozzle
- 12V 8GPM Fill-Rite pump

### DIESEL SYSTEM SPECIFICATIONS

- 980 gallon tank • 40 GPM Honda pump
- 50 ft. 1" fuel hose with retractable reel and auto nozzle

### DIESEL TANK SPECIFICATIONS

- DOT approved • Full Width Baffles
- Drain Plug in Case of Rollover
- Tank is Independent from Frame & Can be Replaced if Damaged

### OPTIONAL FEATURES

- 17.4 CFM air compressor with 30 Gal. Air Tank & 50 ft. retractable reel
- Heavy Duty 7 Drawer Toolbox • Hydraulic Jack System



## L480 Service Trailer

### TRAILER SPECIFICATIONS

- Bolt on Fenders for Easy Replacement
- Stainless Steel Rock Guard
- Tandem 6K Dexter Torsion Axles with Electric Brakes
- LED Lights • Powder Coated Finish
- Adjustable 2 5/16" Hitch Coupler • 7K Bolt-on Jack
- Aluminum rims with 225/75 R15 10 ply tires

### OPTIONAL FEATURES

- Heavy Duty 7 Drawer Toolbox

### DEF SYSTEM SPECIFICATIONS

- 50 gallon tank • 12V 8GPM Fill-Rite DEF pump
- 35 ft. 3/4" hose with retractable reel & auto nozzle

### FUEL SYSTEM SPECIFICATIONS

- 480 gallon tank with Full Width Baffles (DOT Approved)
- Tank is Bolted on & replaceable if Damaged
- 12V 25GPM GPI Fuel pump
- 50 ft. 1" fuel hose with retractable reel and auto nozzle

**Green, Gray, Red & Black Chassis or Custom Colors Available  
One Year Warranty, Excluding Tires, Brakes and Battery**

**\*\*\*ALL WIRING PROTECTED FROM ROCK DAMAGE FOR LONGEVITY!\*\*\***



### Eagle Industry LTD

Hyw 633, Eastend, SK, Canada

For more information call: **1-620-747-9132**

Or see: [eaglefueltrailer.com](http://eaglefueltrailer.com)

Dealers in the USA

**BETTER BUILT TRAILERS**

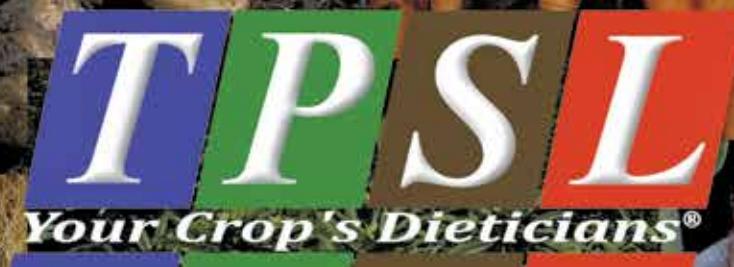
2931 K, KS-23

Grainfield, KS 67737

Call: (785)-673-5100

Website: [betterbuiltkansas.com](http://betterbuiltkansas.com)

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



**Personalized Guidance  
Based On Proprietary**

All photos are of actual clients' crops.

**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.*



**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](http://TPSLab.com)