

Western Farm, Ranch & Dairy

The vital resource of the Ag Industry | Rocky Mountain-Heartland | fall-winter edition 2016

**Nokian
Manufacturing Agricultural
Tires for Modern Needs**

**American Energy Systems / Country
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Rocky Mountain/Heartland • fall–winter edition 2016

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agriculture

Keep your farm shop clean!

The Industrial Maid T 3000 series air cleaners have been used in hundreds of farm shops, implement repair and diesel repair shops to control welding smoke and fumes, grinding dust, nuisance dusts and diesel smoke.



This simple, yet effective air filtration system can be chain hung and uses two stages of filtration to separate dust,

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Turn Stubble Into Dollars

Would you like to reclaim hundreds of dollars from this year's crop? Most producers would. By using Bio S.I. Technology's SD 25, Field Stubble Digester you can reinvest crop nutrients for bigger returns. Bio S.I. Technology's three-step program utilizes seed and soil inoculants to maximize the efficiency of the residues and nutrients left behind after harvest.



Bio S.I. SD 25 contains specifically selected soil borne bacteria that digest organic material and as a result is

converted to usable nutrients for plants. Other options producers are often faced with to manage residue are burning, which negatively effects the microbial communities, remove it from the field, or simply turn it under. None of these options are beneficial for nutrient cycling and building microbial diversity, not to mention carbon sequestration.



As the microbes in Bio S.I. SD 25 begin breaking down organic material it not only converts it into usable nutrients it removes the refuge where detrimental pathogens overwinter,

removes the massive nitrogen sink and begins building the humus or carbon fraction of the soil. Humus or soil carbon is the fraction of the soil that holds water and nutrients in the rhizosphere for future plant use. You will notice a change in your soil structure beginning with a reduction in crusting and aggregation of soil particles increasing natural tilth of the soil. Eventually, the natural earthy smell, attributed to glomalin, will return as proof of increased soil life.

Bio S.I. Technology products are all liquid so they easily incorporate into your production system. They can be used with a sprayer just as easily as they can in a pivot irrigation system. Bio S.I. SD 25 can be used over the top of growing plants, if the situation calls for it, with no detriment to the live plant. Contact your nearest distributor today to take advantage of the benefits of Bio S.I. SD 25 and convert your debris into dollars!



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Benefits of Using SD 25:

- Improved nutrient recycling
- Improved disease resistance
- Reduction in fertilizer input and expenditure



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Roll-A-Cone Corn Cones divide the outer rows and gently roll the down corn up the dividers. The center cones need only to lift the crop up and into the cross auger. The cone has no equal as a divider in down, tall & tangled crops. No more plugged corn headers. **SIMPLE & LIGHT.** Won't interfere with normal operation. Roll-A-Cone also offers a cone on each end with hydraulic motor on each cone. Cones have proven #1 in performance

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Roll-A-Cone Corn Cones – Proven #1 In Performance

Nestled amongst the wheat fields and wide open Panhandle sky, Roll-A-Cone began its operations 40 years ago in a small barn out behind the home of Wylie & Billie Byrd.



Bad spring storms in 1957 had caused the milo crops to fall and they were deemed unharvestable. Mr. Byrd set to work inventing a combine attachment that would roll under the fallen crops and lift them up so that they could be harvested. This attachment became known as the Roll-A-Cone and likewise the name for the newly founded company.

But Roll-A-Cones were only a seasonal product so the Byrds began doing custom metal work for the local farmers. Eventually Roll-A-Cone broadened their product line by manufacturing all types of farm equipment ranging from shank holders and plow frame hitches to 65-foot plows with every attachment imaginable – most manufactured in their 5-acre shop in Tulia, Texas.

Still, 40 years later, the Roll-A-Cone Corn Cones remain in high demand.

What makes them great? They divide the outer rows and gently roll the down corn up the dividers. The center cones need only to lift the crop up and into the cross auger. The Roll-A-Cone Corn Cones have no equal as a divider in down, tall & tangled crops.

Think about it. No more plugged corn headers. It's simple and light, and won't interfere with normal operation. Roll-A-Cone also offers a cone on each end with hydraulic motor on each cone.

Today the Roll-A-Cone Manufacturing shop covers five acres, employs about 50 people, and sells products to over 20 states and several foreign countries. The manufacturing shop is located near Interstate 27 in Tulia, Texas, just 50 miles south of Amarillo and about 80 miles north of Lubbock.

After all these years, Roll-A-Cone still retains the small family business atmosphere and personalized customer service. Most special orders are welcomed.

For more information, visit their website at www.Roll-A-Cone.com, or call 806-668-4722.



Nokian Manufactures Agricultural Tires for Modern Needs

Nokian Tyres is a European tire manufacturer that specializes in specific solutions for unique agricultural applications. Their focus is on offering new tire designs that out-perform traditional agriculture tires by improving performance on hard surfaces and carrying heavy loads efficiently.



The Nokian TRI 2 tractor tire is designed for the needs of the modern tractor. It features a block tread pattern that performs well when tractors are on the road and in the field. When the Nokian TRI 2 is used on the road, it has more tread surface in contact with the road than a traditional tractor tire. That spreads the tire wear out over a larger surface area and allows the TRI 2 to last much longer than a traditional tractor tire in

hard surface applications. The Nokian TRI 2 also has excellent grip and self-cleaning and limited ground disturbance in the field. The TRI 2 offers higher load carrying capacity than traditional tractor tires, which helps extend the life of your tire. The Nokian TRI 2 is a 40 mph rated tire, which allows you to drive faster and ride smoother than a traditional tractor tire. The Nokian TRI 2 offers excellent performance for agricultural applications where the tractor is used on the road and/or carries a heavy load.

Nokian flotation radial tires are designed to carry the heavy loads of today's agricultural trailers with stability and low ground pressure. The Nokian ELS radial tires have a lug pattern that is typical to many other flotation tires currently available in the market. What is different about the ELS radial tire is its' ability to carry heavier loads with the stability and larger footprint of a radial tire. In addition, the Nokian ELS radial will perform better on hard surfaces than a typical agricultural trailer tire. If you use your agricultural trailer mostly on the road, or if you are carrying the heaviest loads, the Nokian Country King is designed specifically for those needs. All Country Kings are steel belted to offer increased load carrying capacity, while maintaining a light footprint in soft soil applications. The Nokian Country King features a block pattern that maximizes the tread contact with the road, which leads to a long service life in hard surface applications. The Nokian line of flotation radial tires are manufactured for the needs of the 21st century agricultural trailer.



Reliable Performance All Year

The Nokian TRI 2 features excellent grip, high load-bearing capacity and superior driving comfort.

- Car-like driving
- Unique wear resistance
- Low rolling resistance
- Self cleaning
- Long working hours

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The Nokian Country King performs lightly and economically on fields and roads alike.

- Large contact area
- High load-bearing capacity
- Stable and comfortable driving
- Low rolling resistance
- Mounted assembly available

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Miracles of Balanced Plant Nutrition

Rising Costs, Falling Commodity Prices and Reduced Availability of Farm Loans Demand Smarter Farming Practices With Higher and More Efficient Production Per Acre.

Noel Garcia, CCA Technical Director, Texas Plant & Soil Lab

Typically, most growers have post-harvest or early spring soil tests performed then apply pre-plant fertilizer based upon the recommendations of the soil report and assume that the one application will pretty much supply the crop's nutritional requirements for the remainder of the season with perhaps supplementing Nitrogen sometime mid-season.

There are several problems with this approach:

1. Much can happen to your fertilizer after it hits the ground to make it unavailable to the crop:
 - A. Your native soil chemistry can rapidly tie-up fertilizer components into chemical compounds which the plant can't absorb.
 - B. Irrigation water high in mineral salts not only changes your soil's chemistry and damages its structure, but it also neutralizes plant-absorbability of many fertilizers by changing their chemistries into plant-unavailable

compounds. Water quality is really critical in spray mixes or fertigation.

"What's In Your Water Becomes Part Of Your Soil."TM

- C. Chemical interactions between the fertilizer components themselves can render them unavailable to the plant.
- D. Loss due to the weather – leaching due to heavy rain, high soil temperatures, etc.
- E. Volatilization of Nitrogen into the atmosphere – especially true when next year's N is applied in the Fall.

The pre-season soil test provides a starting point for determining what the soil needs to get the crop off to a good start. The soil may have several issues that need to be dealt with in a coordinated manner to ensure the critical early part of the growing season is managed for the best results. But after that...

2. Nutritional demands of many crops vary widely throughout the growing season. ***The wrong fertilizer in the wrong form***

Ron's Manufacturing

Vertical Tillage Coulter Kit Attachment Gets Even Stronger

Ron's Manufacturing has added two more bearings to their kits. This makes the kits even more heavy duty. Coulter kits from Ron's Manufacturing converts any chisel plow to a year-round tool to prepare your fields.

In the fall, it can be used to lightly till the soil, incorporate and size residue. It is also a practical way to dry out wet soils. The Vertical Tillage Coulter Kit Attachment works well in no-till conservation tillage, as well as conventional tillage operation, extending the growing season and creating better planting conditions. Vertical tillage prepares the soil to warm more quickly in early spring, energizing the seedbed for maximum growth and yield potential.

The Vertical Tillage Coulter Kit Attachment is a smart investment in that it has multiple uses which will ultimately produce savings in terms of time and money. It also has a low operating cost per acre and can be used in a wider range of conditions than most tillage tools. It operates at a relatively high speed of 6 to 12 MPH which saves time. The Vertical Tillage Coulter Kit Attachment allows for quick mixing of manure and soil to prevent loss of nutrients and

control odor. It can also be used for very shallow incorporation of fertilizer and select herbicides.



The Vertical Tillage Coulter Kit Attachment is spaced on 6 inches.

For more information contact Ron's Manufacturing at 40582 187th St., Carpenter, SD 57322; phone 605-266-2177; E-mail info@ronsmfg.com. (Also, please see their ad in this issue.)

applied in the wrong place in the wrong amounts at the wrong time is simply wasted – along with your money – often leaching into nearby waterways.

But worse – your crop ends up being malnourished resulting in yields and quality often far below your crop’s potential.

And even worse, crop malnourishment results in a stressed crop, making it vulnerable to diseases and insects (requiring insecticides and fungicides) – and requiring more water, making it more susceptible to drought and heat – and to hail damage and to cold (late frosts). “Nature always eats the weakest with bugs and disease.” **So, you end up spending a whole lot more to get a lot less.**

3. Popular soil testing methods used today (Mehlich III and others) by most labs extract nutrient compounds that are both plant-available and unavailable to be interpreted for subsequent recommendations to you.

(Sidebar: Reports on some soils often show Phosphorus, Potassium, Calcium or Magnesium as being consistently adequate or high, year-after-year. *How can that be?*)

Most of those soil nutrients that are not lost due to the weather are either absorbed by the crop or are converted to plant-unavailable compounds by native soil chemistry or chemical reactions between themselves. Calcareous soils, particularly, are very efficient in tying-up most nutrients, making them water-insoluble and not immediately available to the plant. Accordingly, these insoluble compounds can build up in the soil over time.

By including at least some of these plant-unavailable com-

pounds in the laboratory analyses, the proportions of what is, and what is not, available to the plant cannot be measured with the popular extraction methods.

This means that the lab has to estimate (guess) what is actually available to your crop, based upon its experience with your soil and render fertilization recommendations often based upon crop nutrition standards published in the early 1950s.

Because interpreting the analysis numbers from the soil testing methods used by most labs is highly-dependent upon the many variations in soil types its clients may have, it is not generally practical for the lab to attempt to calibrate lab numbers against actual plant uptake as can be done using an extraction method that duplicates the way plant roots take up nutrients in any soil.

And the problem with relying on 60+ year-old standards is that they do not reflect new varieties, new discoveries in plant nutrition and deteriorated soil quality (especially high soil salts, low organic matter content and collapsed structure).

All this explains why your soil test reports give you pretty much the same results and recommendations, year-after-year – even as your yields and quality stay flat or decline while your costs go up.

Balanced and Complete Plant Nutrition Goes Way Beyond N-P-K

About 18 elements have been identified so far as being necessary to plants – the number of which depends upon the plant. It has been only fairly recently that the importance of micronutrients (Iron, Copper, Zinc and Manganese) to plant

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(Please see press release in this issue)

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health and quality started being promoted – and a few trace elements have been known for a while to be necessary for certain crops or their consumers. With ongoing research, discoveries are being made regularly about the importance of heretofore ignored trace elements – most recently, SILICON.

A few years back, Silicon was acknowledged as being “beneficial” to mostly small grains, as it helps prevent lodging by hardening cell walls. However, ongoing research reveals that the benefits to very many crops and soils go far beyond that:

- Insects and disease are discouraged by hard cell walls.
- Research suggests that an extremely thin physical barrier forms on root hairs, thus discouraging nematodes and disease.
- Improves nutrient uptake.
- Improves drought resistance.
- Improves soil permeability.
- Many, many other benefits – and more to be discovered.

But there's more: A nutritionally-balanced crop is much better able to withstand stresses put upon it by adverse growing conditions (cold or hot, dark or bright, wet or dry, etc., weather). And – as we've experienced in the field, *maturation time can be shortened by as much as three weeks!*

When we encounter a field with disease or insect problems, the first thing we want to know about is the complete nutritional status of the crop, especially the secondary nutrients, micronutrients and trace elements – as these problems are typically only symptoms of plant stress brought on by nutritional imbalances.

But correcting nutritional problems alone won't necessarily

fix a field already in distress – especially when there is disease or crop damage. Diseased or damaged plants require some intensive care.

A Lot More Than Just The Elements and Basic Chemistry

Biological Inoculants (microbes), sugars, hormones, humates, organic acids and more are game-changers and need to be an integral part of your season fertility program – but especially, **biological inoculants** because the populations and diversity of the native biology in many of today's soils have been decimated.

Biology – both soil and plant – does a lot:

- Converts plant-unavailable soil nutrients into plant-available.
- Controls soil and plant pathogens.
- Conditions soil, regenerating structure.
- Helps remediate salty soil.
- Transforms raw organic matter into humus – a material with complex physical and nutritional qualities – and releases plant-available nutrients during the process. Good levels of humus are essential for thriving plants.
- And a whole lot more...

Sugars stimulate biological activity to reduce excessive vegetative growth of plants caused by excess Nitrogen.

Hormones and Organic Acids are essential components of accelerating plant development – and are especially effective when dealing with crop damage (due to hail, etc.) and to assist in establishing crops in inclement springs.

We see many times a year, that these other things, in addition to basic nutrition, can restore a hailed-out crop within two or

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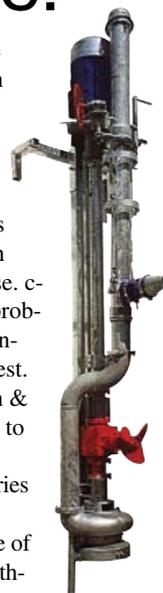
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Our patented chopping system can handle slurries with higher concentration of bedding & solids. Rotating cutter blade & counter blades are made of hardened steel alloy to chop harder & longer without needing to be replaced. Agitation nozzle has a 320 degree horizontal & 90 degree vertical range of motion. Additional gearbox with prop can be added for additional agitation.

Pumps can be mounted & secured in several different ways with wall/floor mount bracket or on a 2 wheel trailer which allows easy movement between different pit access holes.

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three weeks and very rapidly (often, in one season) turn bad fields from disasters into successes!

Plant Tests

Plant tests provide you with “closed-loop feedback” about your crop’s nutritional condition – because you really don’t know about how much of your expensive fertilizer has been absorbed by the crop and you don’t know what its immediate needs are for eventual end-of-season success.

Plant tests are actually tissue tests from leaves, petioles (leaf stems - plant sap) or the whole plant. What leaves/petioles are taken, the stage of growth, when they are taken and the crop nutritional standards used are critical as to how lab results are interpreted and reported. The primary difference between labs is in how the lab analyses are interpreted and the recommendations rendered.

Leaf or Petiole? Very generally speaking, leaves contain the historic nutrient content of the plant. Petioles contain the nutrients flowing (plant sap) within the plant as of the moment the sample was taken. With some crops, there are only leaves.

Many farmers act only after they see visual signs of crop nutritional problems in the field.

But the problem there is, by the time problems can be actually seen with the eye, yields and quality have already been lost for the season. The best that can be done by then is damage control – to hopefully prevent further loss. And “*Hidden Hunger*” is, by definition, invisible...

Plant analysis allows you to correct nutritional problems seven to 21 days *before* they can be seen in the field. Testing is done at specific stages of crop development, ranging from every week or two for fast-growing or high-value crops to two to five times a year for others. But it is critical that your lab reasonably knows what the nutrient content is supposed to be these days at the stage of growth when the samples are taken.

More To It Than Nitrogen

We have a number of clients who are interested only in plant Nitrogen content. Even though N-compound tests are cheap and certainly N is very important, from our perspective N-only tests are still a waste of money and effort, as there are so many more critical nutrients to be accounted for. Consider “von Liebig’s Law of the Minimum”.

Do Your Plant Test Reports Include Everything That Is Important To Your Crop?

We’ve already seen that there are a lot of nutrients required for proper and balanced plant nutrition – only a few of which have been mentioned here – much more than just N-P-K.

Accordingly, for you to get a complete picture of your crop’s nutritional status, you need to know about the secondary nutrients, micronutrients and trace elements. Different crops have different nutritional needs and some crops have special nutritional requirements – especially for trace elements.

Does your lab include these in its reports? Does it have plant tests for your specific crop, including its special nutritional requirements? Does your lab have the capacity to interpret the data to provide you with good recommendations?

Crop Loss: Prevention and Cure –

Very often, crop loss due to late frosts can be avoided or minimized with a correct (and inexpensive) foliar spray applied even within hours of the expected event. Hailed-out

crops can also often be quickly recovered with foliar sprays of hormones, sugars, microbial inoculants, amino acids, micro-nutrients, trace elements and other things.

Comprehensive Plant Tests Are The Cornerstone...

...for maximizing your crop’s potential under the prevailing growing conditions and solving serious crop problems – especially when there are diseases and insects. Your lab should be able to provide you with recommendations for each stage of plant development for a successful season-long crop nutrition program. Providing your crop with balanced nutrition throughout the season is the biggest factor in field performance – and your bottom-line!

What To Take Away From This Article:

- If your lab’s soil reports and recommendations are pretty much the same, year-after-year, there’s something wrong, someplace.
- If you follow your lab’s plant test recommendations and things haven’t much improved, there’s something wrong, someplace.
- If your fields have disease or insect problems, there’s something wrong, someplace.
- If your yields and quality are flat, mediocre or are generally declining and you’re not doing very well, there’s something wrong, someplace.
- If the quality of your soil isn’t improving with each year, there’s something wrong, someplace.
- The Devil is always in the details – especially the smallest ones.s.

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Pulse USA, Inc.

The Industry Leader for all your Seed Needs

At Pulse USA, Inc.; we aren't simply a seed company – we are a refreshing way of doing business. We pride ourselves in the products that we sell, but more importantly the services that we provide to our customers. We are known in the Upper Midwest as the leader for pulse crop seeds; such as field peas, lentils, etc. Since the inception of our company in the early 2000's; pulse crops have been the foundation of our business, but since then we've added several crops to our lineup. Our office and warehouse is located in Bismarck, ND – but we are well known for excellent customer service all across the country.

Each year we see more producers convert to planting pulse crops, and we've become a cornerstone in helping guide them along every step of the way. As the agriculture industry continues to evolve and change each and every day; we've dedicated ourselves and our business to staying in pace with this - while our views are focused on creating and building a strong working relationship, with each of our customers. Every year we work very closely with breeders and researchers

across the globe; to ensure that we select the highest quality lines of seed, for our customers.

One of the ways that we have evolved with the industry, is our specialization in distributing a full line of forage and cover crop seeds. We market "tried and true" premier blends of cover crops, forages, and wildlife species. We proudly provide custom blending on all of our products, to meet all of your individual needs and goals.



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We also market and sell various varieties of the following seed lines: yellow field pea, green field pea, Clearfield® lentil, LCS hard red spring wheat, exclusive spring wheat, and Dairyland® soybean. We also sell crop nutrient and protection products to better protect your products in the field. We distribute biological seed treatments, commercial seed treatments, and inoculants for – seed, hay, and silage, and many other crop inputs.

As we've grown in the Agriculture industry, we have been humbled to work with branded and trusted companies that bear the same integrity that we do at Pulse USA. We distribute seed for companies such as: Alforex Seeds, Gayland Ward Seed, Limagrain Cereal Seeds, BASF Clearfield®, Dairyland®, and Wolf River Valley Seeds. Our seed treatments and inoculants are distributed for companies such as: Monsanto BioAg, BASF, Verdesian, CP Bio, Lallemand, Heads Up, Albaugh LLC, Syngenta, and Timac AGRO.

At Pulse USA, Inc.; the customer is the company – yesterday, today, and always. We invite you to connect with us, and welcome you to visit with us anytime. If you are on social media; you can find us on Facebook, Instagram, Twitter, and YouTube. You can also check out our website; www.pulsusa.com, or stop in at our facility at 2002 Northern Plains Drive Bismarck, ND 58504.



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:



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The Durham Stalk Pusher

WHY A DURHAM STALK PUSHER IS YOUR BEST CHOICE IN AVAILABLE TIRE MITIGATION PRODUCTS

<p>COST EFFECTIVENESS An entire unit is priced at less than two tractor tires. It is by far the most reasonably priced unit on the market.</p>	<p>EASE OF MOUNTING No need to install multiple pieces to run over each row. Each unit comes complete with all mounting hardware.</p>
<p>EASE OF USE Roller System lays stalks flat rather than an individual skid system that may catch debris. This won't catch trash!</p>	<p>TOTAL CLEARANCE Generation III models boast up to 29" of clearance!</p>

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719-346-6030
www.durhamagtech.com



The Durham Stalk Pusher

Strip Till farmers have long been considered some of the most progressive in the industry. Like most things, though, there have been challenges. One of those challenges has been tire and or trac damage caused by corn stalks left behind. Seeing a need to mitigate tire damage, The Durham Stalk Pusher was invented in 2008 by Galan Durham of Burlington, Colorado.

The idea may not have been unique, but the roller design was the first of its kind. The concept is simple. Simply roll over the stalks to lay them down. There is no need for anything more aggressive or destructive to the corn stalk. After all, leaving the stalk in the field was the purpose behind strip till farming.



Durham Ag Tech has the best quality product among tire mitigation products and is able to boast that it is priced far more reasonably than some of the less user friendly designs currently being sold.

The top 4 reasons that the Durham Stalk Pusher should be your first choice when looking for a tire mitigation product are:

- **Cost Effectiveness**--An entire unit is priced at less than two tractor tires. This is BY FAR the most reasonably priced unit on the market.
- **Ease of Mounting**--No need to install multiple pieces to run over each row. That's just more parts that need maintenance. Our Generation III model hangs on the front weight bracket and works for most tractor models. We currently have units available for John Deere, Case and Caterpillar. Each Stalk Pusher arrives with complete mounting hardware and can be installed in under 2 hours.
- **Total Clearance**--Generation III models boast up to 25" of clearance! This is especially important to the folks that farm uneven terrain. With our oscillating bar, the roller truly follows the contour of the ground.
- **Ease of Use**--The roller system lays stalks flat, so in contrast to an individual skid system that may catch debris, this won't catch trash!

The Durham Stalk Pusher has branched out all over the Midwest and has units running in North Dakota, Nebraska, Kansas, Oklahoma, Texas, Ohio, Iowa and of course its home state of Colorado. Several customers have purchased multiple units so that they can have one on each of their tractors!

For more information on the Durham Stalk Pusher visit www.durhamagtech.com

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Plastic baler twine is available in a variety of strengths for big square including twine for the high density balers, small square and round balers.

polyethylene fabric (16 Mil thickness), silver/black fabric to reflect the sun, and includes tie down system with buckle assembly.



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Can Cover Crops Solve Nitrate Water-Quality Issue?

“Solve might be too strong a word,” according to Matt Leavitt, a Cover Crop Specialist with Albert Lea Seed, “but cover crops will definitely be part of the solution.”



Recently, the Des Moines Water Works threatened to sue three neighboring counties to regulate high nitrate levels in the rivers from which Des Moines pulls its drinking water. (See: “Iowa’s Largest City Sues Over Farm Fertilizer Runoff in Rivers,” Jan. 12, NPR.) This threatened lawsuit would bring to reality a fear that farmers have had for some time, namely that tile outlets may eventually be monitored for nitrate levels.

Setting aside the politics of the issue, how can cover crops help? Basically, by having cover crops growing (or even just holding soil) for months of the year that row-crop fields are typically barren, we slow down the flow of soil as well as nitrates and other nutrients into tiles, waterways, and ditches.

“Our cover crop seed sales have grown over 300% in the last three years,” says Leavitt. “Farmers are taking advantage of government programs that encourage them to plant cover crops. In addition, some farmers who have been using cover crops for many years are beginning to prove that there are long-term economic benefits from using these crops.”

There are a lot of excellent sources of information about how to get started using cover crops. Here are a few links:
Albert Lea Seed House:

www.alseed.com
Practical Farmers of Iowa:
Practicalfarmers.org
Midwest Cover Crops Council:
www.mccc.msu.edu/



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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.

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According to the company, exhaust gas has long been one of the most lethal and least expensive methods to kill burrowing rodents. But until now there hasn't been an economical, efficient delivery system.

Company owners, Allen Hurlburt and Virginia Massey, said that the PERC® system involves a narrow steel wand that is used to probe the burrow and inject pressurized exhaust that fills the burrow in two minutes with lethal concentrations of carbon monoxide before the rodent has a chance to either escape or block the burrow.

An internal combustion engine generates the carbon monoxide and drives a compressor pump that pressurizes the exhaust gas to 110 psi in a storage tank. An air hose and a hand held probe inject the gas directly into the burrow without any digging.



PERC® Model 620

Brand new to the PERC® lineup is the PERC® 620, a trailer-mounted unit with a 20 hp Kohler motor and six reels - each with a 50' hose and hand probe. The 620 features a tandem axle with turf tires. It sells for \$14995 plus S&H.

The PERC® 412 is a trailer-mounted unit with a 14 hp Kohler motor and four reels each with a 50' hose and the hand probe. The 412 features turf tires and is designed to be pulled behind an ATV. It sells for \$8295 plus S&H.

The PERC® 206 is a skid-mounted unit with a 7 hp engine, two reels with 50' hoses and hand probes. It sells for \$4995 plus S&H.

The PERC® 206T is the skid unit mounted on its own special trailer. It

sells for \$5590 plus S&H.

The PERC® system is simple to use and safe for the operator as well as wildlife since there is no poison bait or explosion involved. Crop stands are not damaged during treatment. No other control method is as effective, efficient and as inexpensive to operate as the PERC®.

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3 minutes injection time.

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Kansas farmer goes nearly a decade without rained on alfalfa.

In the commercial hay industry, producers have searched for years to find a way to put up high quality hay in large square bales. Larry Matlack of Burrton, Kansas knows all too well the trials of making quality hay, he and his sons have raised alfalfa in south central Kansas for 25 years.



“In all that time.” Matlack says. “We’ve seen a lot of producers leave the hay business in pursuit of other crops, the largest contributor to that is weather.”

In 1999, Matlack decided to find a way to beat mother nature. He had seen farmers in the eastern United States wrapping big round bales, and decided that he could do the same with his big squares.

In an agreement with Tube-Line Mfg. of Canada, the Stinger Cube-Line wrapper was born. Able to wrap bales eight feet long in a stack that’s up to nine feet high, this large commercial wrapper set a new standard for the haying industry.

“I started out using it as an insurance policy.” Matlack says. “If the rain was coming, I just baled it, and wrapped it. It didn’t matter if the alfalfa was 20% or 60% moisture, the point was to save the quality, and get the irrigation system back on for the next cutting.”

The unexpected surprise came when Matlack discovered that dairymen preferred high moisture baleage over high quality dry hay.

“We decided we’d put up each cutting as baleage, and turn that 40% of our crop that used to go to grinding hay, into dairy hay.”

For eight years now, Matlack’s downed hay has not been rained on

once. Not only that, but by getting the water back on, most years he has gained a 6th cutting.

“It gives you an upper hand.” Matlack explains, “With the Cube-Line wrapper we can bale in as little as 11 hours after swathing.”

The new 2014 Stinger Cube-Line

wrapper lists for \$56,000.

“It’s really something to think about, Larry explains, we’re down to 350 acres of hay, and the wrapper makes us on average \$50,000 more profit each season.”

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Around the world, our dependency on forage crops and food grains are ever growing as we continually try to accomplish more production on less land. This is especially true to dependency for the demand in production of numbers with the world food market. When utilizing the remaining precious acres of farmland, producers have used soil aerators as a way to achieve soil sustainability and found that it is the best input dollar spent for long term soil health and profit in a forage crop.

When someone pictures an Aerator, the view of a residential yard with thousands of small cylindrical discarded soil probes sitting on top of the turf can come to mind. An Aerator designed for agriculture is actually quite different. The reason they are so different, is that an agricultural aerator such as the RanchWorx Series Aerator does more than just aerate the surface soil and rhizome layer, they create large and very deep fractures into multiple soil horizons. These deep fractures are what separate a capable agricultural aerator from an aerator designed for turf applications. Unlike the RanchWorx Series Aerators, most of the competition have taken the theory from aerating residential turf to the agricultural market. Over 40 Years ago RanchWorx took a different approach to the spike or tine-style aerators with a focused design to not only create a massive series of fractures, but create these fractures deeper into soil multiple soil horizons, and in a durable manor to perform in any soil type.

Why is durability such an important part of Aeration? Durability is what enables a RanchWorx Aerator to penetrate the hardest soils on earth, crush and bounce over rocks, and be a machine that is commercially rated for brush clearing. In agriculture, implements need to hold up to a large variety of situations as mother-nature is the one calling the shots. When it comes time to aerate, being able to finish the fields with zero down time is the goal, while moving at higher rates of speed. Down time during an aerating window can be a detriment to the season's profitability.

"Here at Sade Farms, we have used a variety of implements designed to help rejuvenate our hay fields and keep them in production. The cost to tear up our fields and rotate them to crop, and then back to hay or pasture is not a profitable option for us, we needed to keep our grass in production longer, and therefore started to see production losses due to Hard Pan. At that point we tested a RanchWorx single drum aerator and have seen an eliminated hard pan and significant water reten-

tion and drought resistance. Production gains paid for the cost of the aerator in the first three years."

Many producers have seen the value in soil Aeration due to less dependency on fertilizers and irrigation costs. If aerating soil with an adequate aerator, this will retain more moisture and promote the natural movement of nutrients through the nutrient cycle.

Water retention will be improved with deep soil fractures created by an aerator, as moisture will always follow the path of least resistance. If these deep fractures are in place, water will travel vertically into the soil structure to where it can be stored and utilized by the plants. Roots will be encouraged to grow deeper to reach water, which will aid in plant density and height contributing to increased yields. The deeper that water is stored in the soil, the less susceptible it is to evaporation caused by atmospheric conditions. Water that is stored near or on the surface of compacted soils is the first level of moisture lost in the event of drought conditions. The longer the crop goes without moisture, the sooner it will go to seed and die off leading to less production weight. Aerated ground is more tolerable to drought and will have less wasted areas of standing water as the field will be absorbing any moisture that falls; not just what can be absorbed in the top few inches.

Erosion is a scary term when considering the sustainability of our fertile soils. As no-till farming practices become mainstream, compaction related soil problems are raising. Fields facing Hard Pan (be consistent with upper or lower case) and compaction issues will see a higher loss of top soil erosion due to water running horizontally across the surface and taking viable nutrients and organic matter with it to nearby ditches and low lying areas. Wind erosion will also be prevalent as root structures will not be as deep in the soil and offer less stability to the soil. This is especially noticeable in times following harvest, during dormant seasons, and in times of over-grazing.

Vertical Tillage Equipment has been around for numerous generations; nonetheless Aerators have become very popular throughout the years as an efficient way to retain more moisture, alleviate compaction, and stimulate plant growth. With the correct Aerator for the application, soil health will be improved and production will be increased without question. Most RanchWorx Customers are happy to share their testament regarding their experience with anyone whom may be interested in testing out aerating.



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, the company operated as Dalton Ag Products until 2007 when it was purchased by Robert Cox and became Cox Manufacturing. In 2014, the company was purchased by Dexter Apache Holdings, Inc., and once again became Dalton Ag. Today, it is one of six businesses that comprise the Dexter Apache Holdings group, one of the nation's foremost ESOP companies, and is 100% employee-owned. The Company offers a wide range of fertilizer application equipment under two brands: Dalton and Mobility.

The Dalton product 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.



Mobility Model 600 Row Crop Dry Fertilizer Spreader

The Mobility line, with its distinctive 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

Continued from page: 32

A large advertisement for Dalton Ag Products. The main image shows a blue tractor pulling a blue Dalton fertilizer applicator through a field of harvested crops. The text "SIMPLE. DURABLE. AMERICAN." is at the top. Below it, "Visit your local Dalton Ag dealer" is written. Three inset images show different pieces of Dalton equipment: a white and black fertilizer spreader, a red nurse trailer, and a red liquid applicator. The Dalton logo, a blue diamond with a white plant, is in the bottom right. Below the logo, the text "Dalton AG PRODUCTS" and "FERTILIZER APPLICATION EQUIPMENT" is displayed. At the bottom, the website "www.DaltonAg.com", phone number "800.342.7498", location "Lenox, Iowa", and "100% Employee Owned" are listed.

A1 Mist Sprayers

Innovation, Ingenuity, Integrity

A1 Mist Sprayers Resources, Inc. of Ponca, NE manufactures the preferred spraying equipment for livestock insect control in cow/calf, dairy, and beef feedlots. The application of insecticides and herbicides in pastures/rangelands, fencerows, roadside ditches, and brush and broad spectrum weed control is also made easier and simpler with the use of an A1 Mist Sprayer.

A1 Mist Sprayers offers a complete line of High Performance, Heavy Duty 3-Point PTO Driven, and Engine Driven mist sprayers. These machines are useful in flatbeds, pickups, trailers, utility vehicles, and ATV's. These units have the capability to uniformly spray up to 140 feet horizontally and 95 feet vertically.

A1 Mist Sprayers use an environmentally friendly application method over boom sprayers, floaters, and hand wand sprayers. Using less water and chemical to accomplish the same goals. These mist sprayers employ a dilute spraying application method...water is used as a dilution only and air is applied to deliver the water and chemical to the target. Spray droplets are injected into an air stream that shears them into uniform micron sizes. From here they are forced through an air vortex created by the fan housing volute attachment that forces the miniscule drops to swirl over, under, and around

the foliage, animals, or fixed objects. Mist sprayers were specifically designed to deposit droplets on the underside of the leaf. Mist sprayers are also the only spraying method that allows you to work with the wind thus increasing efficiency of the application, making the mist sprayers the preferred and most reasonable way to spray herbicides, insecticides, and fertilizers, on your property. The 140 foot spraying range allows you to spray pasture, range land, creek banks, levees, ditches, deep valleys, steep terrain, and hard to reach rocky areas while using 1/10th the water and significantly less chemical.



A mist sprayer is a sound INVESTMENT if your goal is healthy grass for your pasture, range, road ditches, livestock production, erosion control, or insect control.

A1 Mist Sprayers is the only mist sprayer business company specializing in livestock spraying. Customers say that is their preferred insecticide sprayer for controlling horn flies, face flies, stable flies, and house flies. However, a mist sprayer is also beneficial when controlling house flies, gnats, mosquitoes, ticks, and other biting insects found on or near livestock confinements, feedlots, lagoons, levees, pastures, and around buildings.

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ANBO Manufacturing Announces New Rancher Series Grapples

ANBO Manufacturing, leading manufacturer of grapples and blade attachments for use in agriculture, forestry and construction has announced a new series of grapples designed specifically for the modern ranch and livestock farms.



Made of tough A-572 alloy steel, the Rancher Series grapples come in sizes from 69 inches to 94 inches and can be made to fit virtually any carrier. It features an extra wide 75-inch opening for picking up large round bales, square bales or large brush piles. The 8-inch tine spacing provides the ability to forward and back rake fine hay and debris into easily manageable piles of material that can be picked up and relocated.

Rancher Series grapples also feature serrated edges which provide an extra strong bite and hold on loads, preventing them from slipping. Complete with 3,000 psi heavy duty welded cylinders, the Rancher Series grapples have outstanding clamping power for secure loads.

Long-time rancher Gerald Scholz brags about his new ANBO Rancher Series Grapple.

“My family has owned property in Okanogan County for decades,” Scholz says. “They’ve purchased numerous ranching products to toil, till, and transform the land – but never one that works this well!”

“The 8 inch spacing between the tines is perfect for picking up both small and large materials,” Scholz said. “And, as another great feature, there are wedges on the front of the fork which will actually lift your dirt up, hold larger rocks tightly, then let the dirt fall out; it’s like a sifting effect.”

The Rancher Series grapple provides livestock professionals a hard working tool to reduce labor, increase efficiency and to simplify projects and chores. Great for maintaining fence rows, pulling fence posts, carrying fence posts, feeding livestock, placing heavy bales into feeders without damaging the feeders, picking large amounts of silage or manure and cleaning feedlots and pens.

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Walinga Bulk Feed Bodies & Grain-Vacs

From concept, design and through production, Walinga meets the customer's needs at every step. Creating outstanding products that are innovative and durable, with some client's vehicles being passed from generation to generation.

Walinga is a leading North American manufacturer of transportation equipment and portable pneumatic conveying systems for grain, feed, seed... virtually any dry bulk material. Walinga is still a family owned and operated company. The total commitment to quality is not only our inheritance - it's our foundation for the future.

Walinga products represent the best in manufacturing excellence. Our in-house engineering and design teams utilize the most current computer technology available. State of the art equipment, combined with over 60 years of experience, ensures that our customers receive unsurpassed quality.

Comprehensive engineering capabilities allow us to offer sizes, capacities, features and options that are specifically job-matched according to individual requirements. The services of our Engineering Department are available to our customers to assist in the selection of the properly specified chassis. Every Walinga vehicle is designed and produced to best fulfill its designated function.

Custom-built aluminum feed bodies and trailers, pneumatic conveying systems, recycling trucks and bodies, aluminum and steel dump bodies... each built according to exact stan-

dards. Every stage of the manufacturing process from design to completion is performed by Walinga. The result - a cost effective, durable product line that responds to any challenge with premium.

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The only system you'll ever need. Gives one-person total grain-handling capability! Do it all with the Walinga Agri-Vac. Fill or empty storage facility being used. The Walinga Agri-Vac puts an end to legs, augers, sweeps and shovels. Grain handling has never been simpler, safer or healthier.

Just couple the Agri-Vac to your tractor and drive into position. Lightweight vacuum/pressure hoses attach in seconds and flex easily. Suddenly even tight spots and awkward angles are no problem!

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Walinga Inc. has been manufacturing bulk feed transportation equipment for more than 60 years. In this time we have become committed to an ongoing program of research and development. In response to the increasingly diverse needs of our customers Walinga is and will continue to be on the forefront of technological evolution.

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Look Ma – No Wires!

Wireless Grain Temperature Monitoring

Technology abounds in agriculture today – variable rate fertilizer applications, auto steering, precision planting, GPS spraying and harvesting to name a few. Managing your stored grain now offers some exciting new technology as well.

A producer can monitor stored grain without leaving the house or from any location that has Internet service. Tri-States Grain Conditioning, Inc., headquartered in Spirit Lake, Iowa, now offers two wireless systems that can make monitoring stored grain easier and faster than getting that second cup of coffee. Using TSGC temperature cables to give a complete temperature profile of their bins, producers will be able to monitor their grain more efficiently and with greater accuracy than ever before.

The SafeTrack Wireless Grain Temperature Monitoring System can be programmed to automatically take temperatures and save them for later viewing. Grain depth, approximate bushels and automated exhaust fan operation functions are

also available. Grain temperature history reports are also available to be printed out. Each individual bin can be set to specialized temperature parameters to accommodate various crops. Instead of taking **2 to 3** hours for a large operation, reading temperatures can now be done in **minutes!**

This wireless system utilizes line of sight (up to 1 mile) radio communication between the bins and the base transmitter to monitor temperatures from TSGC temperature cables (as well as grain depth). It requires power at the transmitter location on the bin, and may be run either manually or automatically, locally or over the network/Internet, for anytime, anywhere monitoring.

Another option is the GrainTRAC remote bin monitoring system. This system utilizes a cell phone modem to transfer data from the TSGC temperature cables to an internet website, www.wagnet.net. The producer is given a user name and a password to ensure privacy. Once logged onto the website, the producer can view a graphical display of his temperatures or a numerical display. Temperature parameters (minimum and maximum) can be set for each bin, as well as rate of rise temperature over a designated time period. Temperature history reports are available for print out. Options include remote fan start/stop and a weather station with features such as temperature, relative humidity, wind speed and rain measurement. Alerts are sent via email or text message.

The requirements for the GrainTRAC system include temperature cables, cell phone coverage at the bin site and electrical power. An annual access fee to the internet website is charged (a low per year minimum). Convenience is the selling point of this system because a producer can monitor his grain temperatures from anywhere via the Internet.

Either of these wireless systems will save you time and money, while providing peace of mind about the true condition of your grain. Knowing your grain temperatures, while watching for changes, is the only safe way to monitor the condition of your grain.

TSGC, Inc. is one of the largest suppliers of grain temperature monitoring equipment in the world. Headquartered in America's Heartland, our administration, fabricating, sales and service divisions are located in Spirit Lake, Iowa. We have an extensive network of contractors representing our products and services nationwide and in over forty countries. **TSGC, Inc. is dedicated to serving you.** For more information or a free, no obligation quote, contact Tri-States Grain Conditioning, Inc. at 800.438.8367, Tsgc@TsgcInc.com or www.TsgcInc.com



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C & R Supply, Inc.

Birth of a Sprayer...the Family Expands

After carefully listening to customers who were disappointed with the performance or lack of features in ATV sprayers available, C & R Supply set out to design a series, or family of sprayers to meet their needs. The family began with the EZ ATV Sprayer which features a unique tank design that was created with input from customers and ATV manufacturers. Using this input, and keeping the operator in mind the EZ ATV Sprayer was designed for ease of operation, functional ability and safety. The design was a success! This unit has been in demand since 1998 and continues to hold a strong presence in the market today.

The EZ ATV Sprayer has a sleek design which brings the weight forward and more to a center of gravity for better machine balance. Allowing the legs of the tank to wrap around the fenders of the ATV gives the sprayers dual sumps maximum drainage and the ability to run on side hills without losing its prime. The pump, strainer, and main shut off are mounted underneath the tank in a protected cavity, which also serves as a dual slosh baffle. The top of the tank is designed with a fill catch area to prevent chemical from getting on the operator. The EZ Sprayer is fitted with a 4 gpm Shurflo Pump and a quality Tee-Jet trigger style handgun in the convenient control panel at your side. All brackets and boomless nozzle or boom accessories are attached to the tank for quick and easy mounting. The EZ ATV Sprayer has several different options and accessories to meet your needs.



As time went on customers began seeing a need in their operation for UTV's. C & R Supply responded by expanding their family of sprayers. The UTV sprayer was born and it was named the C & R Slide In after its ability to be easily slid on and off the bed of the UTV as needed. The sprayer is mounted on a powder coated frame which allows the unit to be transferred as a single piece of equipment. This sprayer, like its elder sibling, was built with only the highest of quality components. The Slide

In features a 60 gal tank, left and right electric controls with wiring harness, a Shurflo 4gpm bypass pump, and Boominator nozzles which can spray a width of up to 30 feet. An 8 inch handgun from Tee Jet with adjustable tip for hand spraying is also included. The Slide In sprayer has options and accessories available to meet the needs of your operation including a convenient retractable hose reel add on and additional boom options.

C & R Supply, Inc. is a distributor and manufacturer of agricultural and roadside spray equipment located in Sioux Falls, South Dakota. For over 40 years, C & R Supply, Inc. has been a leader in the distribution and servicing of many quality products from Raven Industries, Spraying Systems, Banjo, and more. They also lead the way in designing and manufacturing new and advanced products as their customer needs change. This family of quality sprayers began with the introduction of the C & R Foam Marker and Spot Sprayer which progressed to the units we are featuring here today. C & R is a provider of precision ag products such as GPS guidance systems, variable rate controllers, mapping, steering assist systems, and chemical injection units. C & R Supply prides themselves on having the knowledge and experience to continually advance their product line to keep up with ever changing technology in a way that helps producers maximize their output.

Tired of Cheap, Throw-Away ATV Sprayers?

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- Left and right electric controls with wiring harness standard
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LAFORGE's PowerFold®

Winner of a 2016 AE50 award

St. Joseph, Michigan. – The American Society of Agricultural and Biological Engineers (ASABE) has named LAFORGE's PowerFold® automatic folding system for front hitches the winner of a 2016 AE50 award.



AE50 awards honor the year's most innovative designs in engineering products or systems for the food and agriculture industries. The PowerFold® will be featured in the January/February 2016 special AE50 issue of ASABE's magazine Resource: Engineering & Technology for a Sustainable World.

We are pleased and honored to once again receive an AE50 award for one

of our products related to front hitch technology, says Lars Paulsson, Vice President of LAFORGE Systems Inc. The PowerFold® allows for folding and unfolding of the tractor's front 3-point hitch by simply pushing a button in the cab. It's a big step forward in enhancing comfort and safety for tractor operators, Paulsson continues, and it solidifies LAFORGE's position as the undisputed leader in front hitch technology.

Companies from around the world submit entries to the annual AE50 competition and up to 50 of the best products are chosen by a panel of international engineering experts. The judges select products that will best advance engineering for the food and agriculture industries.

The AE50 awards program is sponsored by Resource to emphasize the role of new products and systems in bringing advanced technology to the marketplace. These engineering developments help farmers, food processors and equipment manufacturers cut costs, enhance quality and increase profits.

Resource, a magazine geared to agricultural, biological and food system engineers worldwide, is produced at ASABE headquarters in St. Joseph,

Michigan. The publication is read by thousands involved in the agricultural, food and biological industries.

ASABE is an international scientific and educational organization dedicated to the advancement of engineering applicable to agricultural, food, and biological systems. Further information on the Society can be obtained by contacting ASABE at (269) 429-0300, emailing hq@asabe.org or visiting www.asabe.org.

For more information about AE50, Resource magazine or ASABE, contact Sandy Rutter (269-932-7004) or rutter@asabe.org

For more information about LAFORGE go to www.fronthitch.com or www.laforge.fr or contact Lars Paulsson at lars@fronthitch.com

Dalton Ag Products

Continued from page: 25

spreaders come in either row crop or tandem walking axle models, and have weight capacities of up to 12 tons.

"What sets us apart from other brands is our flexibility in design and fabrication" says Mike Hilderbrand, President of Dalton Ag, Inc. "We are capable of customizing our products, particularly toolbars, to fit the requirements of specific customers and applications."

Last year, Dalton Ag completed a 32,000 s.f. addition to its Lenox plant, including a state of the art powder coat paint system. "The difference between the powder coat and the old liquid paint is like night and day," said Hilderbrand. "Because there is no cure time required for powder, our manufacturing cycle time has been reduced significantly. And it looks great, too!"

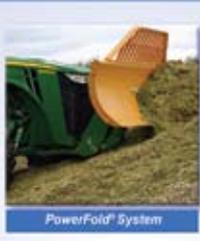
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DuBose Pipe and Gate

Back in the 70's, DuBose Pipe and Gate was started by my father, Bill DuBose. We started building panels under a shade tree in front of his house. Then some time passed and we actually had a small shelter to work under. He built his business up in the 20 years before his passing in 1994.

Many things have changed since then. We are still family owned and operated and send panels all over the U.S., but one thing has not—we still build the

strongest panel for the best price. With the economy the way it is, we all need to get the best product at a fair price!

Dubose panels are designed for the toughest situations. The corral panels are great for bison, bulls, or any other large animal you need corralled. The panel weighs 250 lbs. Compare the weights of our panels to the competition—you will see the difference!

Our corral panels are designed for containment in crowding areas such as feedlots and working pens. Panels

are available in 5', 5'6", & 6' heights 10' lengths.

The economy panels are ideal for light confinement, but strong. These corral panels are ideal for overnight shows and trail rides as well.

The bow gates are made to fit all sizes of panels. They are built with either a full 10' gate or a 10' section with a 5' gate. Also available are the 5' walk thru gates.

Visit www.dubosepanels.com for a full list of our products. 

Bakko Industries, Inc

What makes Jug Livestock Waterers the right choice for your livestock? Following are some of the unique qualities that Jug Livestock Waterers offer.

It all starts with the Draw Tube Design. It is much like a giant straw so the animal can use its normal method of drinking. The animal places its muzzle over the opening in the drinking bowl and sucks up the water just as it would naturally drink from a

water hole. The Draw Tube Design is really three tubes, two copper and one CPVC. As the water gets cold in the drinking bowl, it becomes heavier and sinks down the CPVC tube forcing the warm water up the copper tubes into the drinking bowl.

Jug water is clean. No more smelly water from heavy bacterial growth. The Draw Tube is attached to the drinking bowl with a feed trap which keeps feed debris that fall off the animal's mouth

from dropping into the water reservoir. With Jug Livestock Waterers you will not have algae growth because the waterer seals out the air and sunlight which aid in the growth of algae. Another advantage of the Jug is that animals can see and smell clean water. They do not have to learn to lift flaps or push balls or floats out of the way to get water.

Jug Livestock Waterers have an external adjustment screw for the float valve which allows for easy adjustment at any time without the removal of any lids or covers.

Jug Livestock Waterers are available in Energy Free or Energy Efficient models. In cold climates we recommend the Energy Efficient model, which has a 65-watt heater and thermostat to give you the insurance you need in cold winter weather. The average energy cost for an Energy Efficient Jug is about \$9.00 for the Entire Season.

Keep the Jug in mind when you are ready for your next waterer purchase. Jug Livestock Waterers are manufactured in Glenwood, MN by Bakko Industries, Inc. a family owned and operated business. Check us out on the web at www.thejugwaterer.com or give us a call at 1-800-584-6675. We look forward to hearing from you. 

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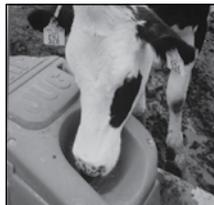
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Lighting the Way to Enhanced Food Production Processes

Manufacturing at every level is constantly tasked with identifying new cost-effective measures to increase the efficiency of any and every component of the manufacturing process.

The food engineering industry is no different. Expenses, ranging from operations and packaging to materials and safety measures, are continually on the rise. With end users only able to assume some of the upfront financial burden, internal operations are always looking for cost-effective solutions.



As a result, the installation of LED lighting is rapidly evolving from a trend throughout the industrial sector to a valued method for enhancing safety, while reducing costs and carbon footprints. This is especially true when replacing high-intensity discharge fixtures (i.e. metal halide) and/or compact fluorescent lamps (CFLs). Metal halides are not only costly to operate, but also generate intense heat and tend to lose about half of their light output midway through their lifecycle. Requiring ongoing maintenance due to their limited lifecycles, CFL bulbs also contain mercury, which can pose multiple risks to food environments when broken or cracked.

Rosy-Lane Holsteins of Watertown, Wisconsin is yet another example of a food industry company that has successfully sampled LED lighting benefits. A member of Wisconsin's Green Tier program, Rosy-Lane shelters more than 1,900 animals, including 920

Holstein cows used in milk for cheese production.

"We are deeply invested in balancing animal care and profitability with the protection of natural resources," offers Jordan Matthews, the company's operations manager and co-owner. "This is not a goal. It's a commitment."

In the summer of 2015, this dedication extended to the installation of LED lighting in the main barn's milking parlor. Rosy-Lane needed a lighting system placed under the cows during the milking process that could handle an intense environment with rigid operating conditions. While brightly illuminating the work area for employees, the new lighting system also had to be durable, as the cows in the area constantly bump and saturate the lighting system with cleaning fluids, water, urine and manure.

"We spent months working with our electrician to identify the right lighting," adds Matthews. "It's such a tough space. There are so many requirements given the proximity to the cows and our stringent eco-friendly agenda. G&G LED offered the perfect solution for our needs. It's actually been so successful that we've had representatives from other dairies visit our milking parlor just to see how it works."

The WPX Series of linear luminaires were strategically placed slightly above a concrete slab where up to 12 cows at a time are milked side-by-side, while employees stand behind monitoring the procedure. Matthews says the lighting was specifically chosen due its slim, low-profile fixtures and "rugged durability," as well as the UL Wet Listing and DLC qualification. In fact, in addition to its widespread application within the food preparation, processing and storage industries, the WPX Series of linear luminaires are used widely within carwash bays given their ability to withstand the effects of stringent chemicals and solvents.

Another extremely important benefit

is the LED lighting's UL listing. UL (Underwriters Laboratories) is a worldwide safety consulting and certification company that provides the UL Listing to products that have been tested against the organization's set safety standards and have been found to meet rigorous UL requirements. UL Listings not only help ensure that products are not fire or shock hazards, they also help to eliminate liability.



LEDs generate much less heat than other forms of traditional lighting, dramatically reduce energy consumption, and produce bright beams of light for longer periods of time. LEDs do not burn out like typical bulbs and still emit up to 70 percent of its initial light output after 10+ years of operation life. They also commonly use 60 to 70 percent less energy than metal halide and CFL bulbs.

"Since installing the G&G LED lighting, the cleanliness of our milk has increased by 10 percent," adds Matthews. "The light quality is exactly what we wanted. Annually, we have more than 1,500 visitors touring our facility. They range from grammar school children on class trips to dairymen from countries worldwide. No one else has arranged their milking parlor this way. In addition to increasing efficiencies, everyone is amazed just how bright and clean the area looks. It is quite the showpiece."

For more information on the WPX Series of Wet Location Linear LEDs from G&G LED, please visit www.ggled.net or call 800-285-6780. 

Blood-Based Pregnancy Checks- BioPRYN Your Herd!

Over thirty years ago Dr. Garth Sasser was a professor of Animal Science at the University of Idaho. In his research he discovered a pregnancy specific protein in the maternal bloodstream of ruminant animals that is only elevated when that animal is pregnant. He developed a test called BioPRYN (Pregnant-Ruminant-Yes-No) that measures the concentration of this protein in blood and can provide an extremely accurate determination of pregnancy status in cattle, goats, sheep, bison and other ruminant animals very early in gestation (28 days post breeding).

A growing number of dairy and beef producers and their veterinarians are utilizing blood-based pregnancy testing in unique ways to complement traditional pregnancy detection methods and because BioPRYN is a proven, convenient, accurate and cost-effective way to check your animals for pregnancy that eliminates subjectivity. Some progressive producers that are using embryo transfer or synchronization protocols with artificial insemination will use BioPRYN as an early "open check" at 28 days post breeding to identify if the animal needs to be reintroduced to the synchronization program. Other producers and their veterinarians will use a BioPRYN check to supplement monthly or biweekly herd health checks to identify those open cows as early as possible and to avoid the entire herd being locked up for extended amounts of time on pregnancy-check day. BioPRYN is also a useful tool for a reconfirmation pregnancy check later in gestation to identify the small percentage of cows that will experience embryonic loss and not carry to term.

The process consists of drawing a small blood sample, usually from the tail vein, and delivering or sending samples to one of the 45 BioPRYN Affiliate Labs that have been trained and certified to provide consistent and accurate results so that you can trust the results and manage your animals accordingly.

For blood collection supplies and more information about BioPRYN and the BioPRYN Affiliate Lab network please visit biopryn.com or call 208.882.9736. 🐾



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Rawhide Portable Corral's NEW PROCESSOR

Rawhide Portable Corral, Inc of Abilene, KS has been in business for the last twelve years and we are proud of our premiere portable livestock corrals. We are extremely excited about our latest model: The Rawhide Processor by John McDonald.



We offer 3 sizes ranging from the **Standard:** 40-50 cow/calf capacity, **Large:** 80-100 cow/calf capacity, and our **Super Large:** 140 cow/calf capacity. Our corrals offer the most versatility in pen size and configuration. John McDonald is the original designer of the Rawhide Portable Corrals and has really outdone himself with this new design.

The Processor has a permanent sheeted adjustable alley to aid with working your livestock on site and in the field. The adjustable alley can be sized from 30" down to 16" either manually or hydraulically. We offer the option of mounting a head gate to the end of the alley for easy, on site cattle processing. You can even add a self contained loading chute to the system.

If you like to lure your cattle with feed, a pickup can be driven completely through and out the opposite end of the Rawhide Processor. Each panel section has its own solid rubber wheel, resulting in no flats. Our corral has several man/pass gates to aid in human movement about the system. The Rawhide can form 2, 3 and even 4 pens to aid with sorting your livestock.

The Rawhide Processor is easy to set up, utilizing electric over hydraulic cylinders on the back end and the front of the unit: The 16" transport wheels are permanent, retracting up and down with the flip of a switch. No more unpinning the wheels and sliding them off the axles and rolling out of the way. This model comes as a gooseneck only and there is a self contained power unit with long life marine battery and a solar panel mounted atop.

Please check out our website for more information and to view our video: www.rawhideportablecorral.com or call 785-263-3436.



Needle-Guard™ Vaccination Table by Tower Stool LLC

Tower Stool Company is proud to introduce the innovative, new Needle-Guard™ Vaccination Table (patent number D613,525), which will make inoculating farm and ranch animals far less stressful. The Vaccination Table was designed with the help of South Dakota ranchers to make the vaccinating process easier, safer, and more efficient.



The Needle-Guard™ features 4 color-coded holsters for vaccine guns that allow for easy, controlled access during the stressful vaccination process. The holsters will accommodate both plastic and metal guns and keep them out of direct sunlight when not in use. The color coded holsters hold up to four

different vaccines in precise order, eliminating costly mix-ups and mistakes. The holsters are easily removable for cleaning and storage. The Needle-Guard contains a heat distribution method for warming vaccines during cold weather use. In addition the tankards can be used to store ice or dry ice to cool vaccines in hot weather.

KEEP VACCINES ORGANIZED & TEMPERATURE CONTROLLED

The Needle-Guard™ also features 2 large tankards for holding extra vaccine, disinfectant for cleanup, and waste by-products. These extra large waterproof tankards have hard plastic flip-top lids and brass plated steel hinges. Like the holsters, the tankards are easily removable for cleaning and storage. Veterinarians know that vaccines are more effective when kept at normal room temperature. The Needle-Guard™ provides a stable base for vaccinating even in the most rugged environment making the entire process more efficient and effective. The table can be set-up even while wearing gloves in a matter of seconds. Like all Tower Stool Products, the Needle-Guard™ folds flat for easy transportation and compact storage.

The Needle-Guard™ is constructed of Baltic Birch wood with brass plated steel hinges. The table has a mar-resistant polyurethane finish and the legs are dipped in hard plastic to keep them from absorbing moisture from the ground. With over 90 square inches of workspace the Needle-Guard™ provides an ample, stable work platform that can be assembled in seconds. The table weighs 27 pounds so it can be moved easily by both men and women.

For more information, email: towerstoolco@gwtc.net or visit: www.towerstool.com

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Roger Lange milks 100 head on his family dairy at Crofton, Nebraska. Until recently he was often forced to sell his fresh heifers because they wouldn't let down their milk.

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I haven't had a single problem with our fresh heifers since Jerry corrected our stray voltage problem. I would highly recommend Stray Voltage Consulting to anyone who thinks they might have stray voltage."



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Coupon applies to an in-store purchase only. Call 630-715-1281 for a participating farm store near you.

Limit: 5 items per coupon. Expires December 31, 2016.

TERMS & CONDITIONS: MANUFACTURER'S COUPON - Redeem this coupon at time of purchase. Coupon applies to the purchase of up to 5, coupon-specific products. Coupon may only be used once, and must be forfeited at time of redemption. Offer good only at participating locations. Not redeemable for cash. Customer is responsible for applicable sales tax. Void where prohibited, taxed or restricted by law. NutraStart is trademark of Milk Specialties Co. © 2016 MilkSpecialtiesGlobal.com

Farm Store: Please return to Milk Specialties Global — Farm Stores for reimbursement. Mail to: Milk Specialties Global 7500 Flying Cloud Dr. Suite 500 Eden Prairie, MN 55344 (post mark by Feb. 1, 2017).

Circle the No. of 50 lb Items Purchased with Coupon

1	2	3	4	5
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Circle the No. of 25 lb Items Purchased with Coupon

1	2	3	4	5
---	---	---	---	---

Limit: total of 5 items

Customer's Name: _____

Mailing Address: _____

City/State/Zip: _____

Email: _____

Species / No. Raising: _____

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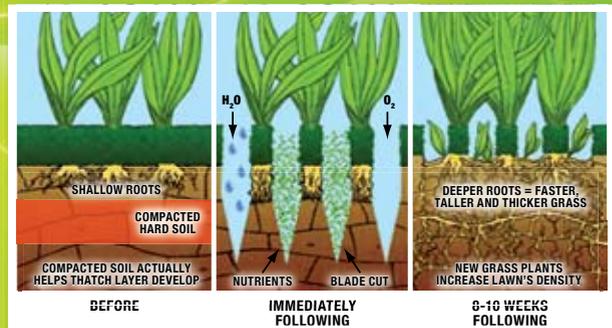
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