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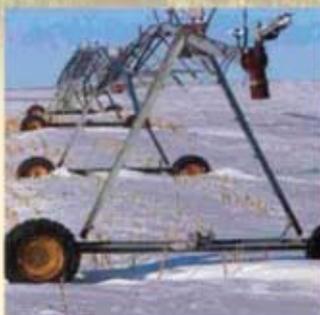
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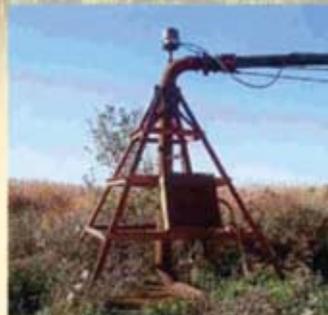
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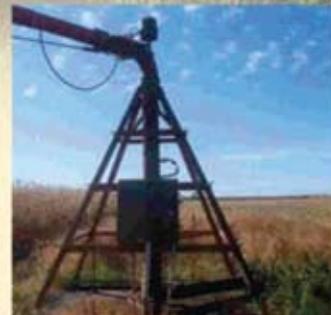
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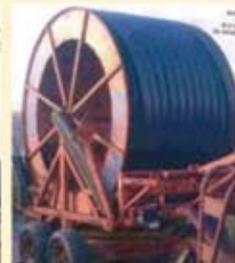
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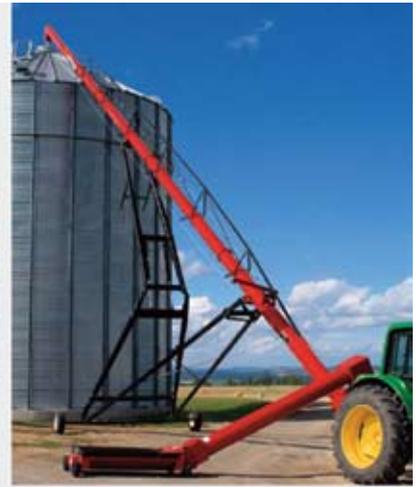
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ON THE COVER

Feeding bunks at a dairy. Photo courtesy of USDA.

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Rocky Mountain/Heartland • summer-fall edition 2012

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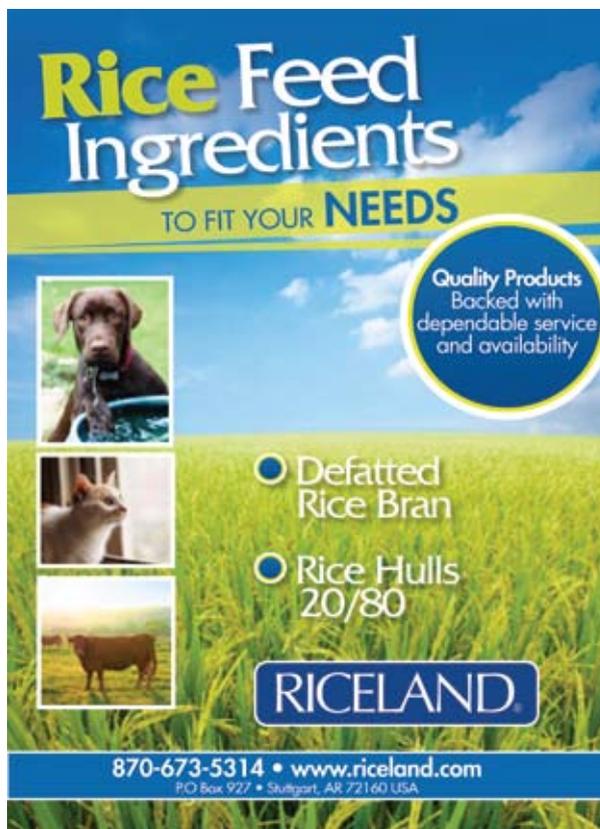
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If you have a trash problem, the Hydroscreen is the machine to take care of it.

I wouldn't want to irrigate without it." Warren – Owner

"I have been using Hydroscreens for the past twenty-five years. I run a total of five units to remove the excess trash that we have in our river and reservoir water. I flood irrigate with siphon tubes, without the Hydroscreen this would not be possible. I would have to hire at least two additional employees, just to keep checking plugged siphon tubes. Hydroscreens are a plus to my operation." Ed Croissant

"We have been using Hydroscreen

trash catchers for many years now. I cannot imagine irrigating without them. They even work great as a pre-cleaner for our drip irrigation systems, saving us a lot of time and hassles. I look forward to more units from you in the future." Lynn Fagerberg – Fagerberg Produce, Ault, Colorado

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## Missouri Hay Tarps

Missouri Hay Tarps has been protecting and covering round and square bales across the US since 1996. The company's founder Earl Miller is responsible for many US patents but it's his unique "Stake and Wind Lockdown" system that has put Missouri Hay Tarps on the map. Grommets are spaced every 12 inches. Combined with the patent locking stake and webbing, when installed properly, this engineered hay covering system is virtually indestructible and is advertised to have 300% more holding power than the competition.

In addition to the unique lockdown sys-

tem, the tarp boasts a rip-stop fabric that is rope and fiber reinforced, waterproof, shrink-proof and is among the heaviest hay tarps sold. Tarps are white in color



and come treated with a special coating, both are critical components in combating the sun's damaging UV Rays. Tarps

are offered in 27 different sizes guaranteed to cover just about any hay configuration you can dream up.

The founder Earl Miller passed away in 2004 and the company is now owned and operated by Owensville, Missouri, residents Bruce Paneitz and Randy Blaske. The two partners are committed to continuing the business under the principles of which it was built, offering a quality product at a reasonable price, backed by exceptional service.

Call 800-514-0258 or visit them online at [www.MoHayTarps.com](http://www.MoHayTarps.com) to place an order or learn more about these tarps. All major credit cards are accepted.



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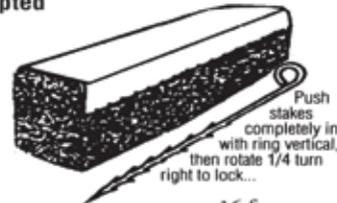
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What were the traits that enhanced alfalfa weevil tolerance? Weevil tolerant plants had terminal buds more than twice as heavy as the terminal buds of susceptible plants. A second trait was stem branching. Tolerant plants had well developed axillary buds down the stem

while susceptible plants did not. These two traits allowed tolerant plants to support weevil feeding, and with varying degrees of success, to outgrow the weevil population.

As it turned out, the larger terminal buds turned into large leaves, and the axillary buds turned into fine stemmed branches supporting more leaves. The result was fine stemmed, extra leafy alfalfa as shown in the photograph.

Using the knowledge gained from the study of alfalfa weevil tolerance, we selected a pool of alfalfa plants with large terminal buds and pronounced axillary buds. These selected plants became the germplasm pool for the Cimarron alfalfa variety and for subsequent varieties of the Cimarron line.

Our latest releases, Cimarron VL400, Cimarron VL500, and Cimarron VL600 are available for sale this fall. These exceptional varieties continue



the tradition of extra leafiness and also incorporate recent advances in alfalfa breeding. For more information go to [www.CimarronUSA.com](http://www.CimarronUSA.com) or call us for brochures at 800-874-7945. 



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# 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 seed-bed 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](mailto:info@ronsmfg.com). (Also, please see their ad in this issue). 



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### Ron's Mfg.

(Please see press release in this issue)

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# Inland Tarp & Liner's Bull Flex Hay Tarps Outlast The Competition

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When it comes to securing the Bull Flex Hay Tarp to your hay stack, it combines the best of two worlds. First, it comes with high-strength 2" webbing loops to tighten your tarp to the hay stack instead of traditional grommets, thus providing up to 300% more strength. Second, the Bull Flex Hay Tarp also has an innova-

tive pocket sewed the length of the tarp on both sides. This gives you the option to slip a pipe into the pocket and tie down the tarp in the same manner as the popular Performer Hay Tarp.



The weight and strength combination of the Bull Flex Hay Tarp averages nearly 20% greater than most competitive products. When combined with the

use of Inland Tarp & Liner's patented Super Cinch tie down system, you end up with a winning combination that beats out other grommet and loop style hay tarps.

In addition, a 25'x52' Bull Flex Hay Tarp will cover 72 round bales (4'x5') in a 3-2-1 pyramid stack. Check out their website at [www.InlandTarp.com](http://www.InlandTarp.com) and learn how you, too, can benefit by using the Bull Flex Hay Tarp during the next hay season.

For more information on the Bull Flex Hay Tarp and their other products, contact Inland Tarp & Liner, L.L.C. by phone at 800-346-7744 or 509-766-7024, visit their website at [www.InlandTarp.com](http://www.InlandTarp.com), or write or visit them at 4172 North Frontage Rd. E., Moses Lake, WA 98837.

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# Pressurized Exhaust Kills Burrowing Rodents

The H & M Gopher Control PERC system (Pressurized Exhaust Rodent Controller) uses carbon monoxide from pressurized engine exhaust to kill burrowing rodents such as gophers, ground squirrels, prairie dogs, moles & voles.

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 mon-

oxide 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 115 psi in a storage tank. An air hose and a hand held probe inject the gas directly into the burrow without any digging.

Brand new to the PERC lineup is the

---

## Scorpion Truck Bed Linings

Scorpion Truck Bed Linings ([www.ScorpionLinners.com](http://www.ScorpionLinners.com)) is proud to announce its 15 year anniversary on 2011. Scorpion started as a small Midwestern coatings contractor in 1996 and through the years has grown to be one of the largest manufacturers and distributors of specialty polyurethane coatings ([www.ScorpionCoatings.com](http://www.ScorpionCoatings.com)) in the world. Scorpion currently exports to over 30 different countries in all parts of the world, and we have registered well over 2,000 applicators in the US alone over the last decade and a half.

Scorpion has been able to experience growth in such a competitive market because it is unique. The coatings we sell are all non-hazardous, and environmentally friendly. Our application methods are highly cost effective, with the spray

units costing around \$100 as compared to the \$25,000 price tag that our competitors levy against their customers.



Scorpion also does not charge any franchise fees to its dealers, feeling that they

know how to better spend their money than the company does.

Starting in 2008, Scorpion launched its first retail brand, Al's Liner ([www.AlsLiner.com](http://www.AlsLiner.com)). The brand uses much of the same technology as its professional system – just designed to allow a person who would rather do it themselves the ability to do so. The brand has rapidly grown since its inception, increasing sales by over 200% every year.

Scorpion latest launch is Scorpion Window Film ([www.ScorpionWindowFilm.com](http://www.ScorpionWindowFilm.com)). With this line, Scorpion has used the connections it has gained over the last fifteen years to partner with some of the largest and best known window film manufacturers in the world. The highest quality and the lowest price is an ideal that Scorpion has always chased, and the window film is no exception. 📧

---

## Fertilize-Big Yields AND Low Cost

SEA MINERALS FA works as a soil fertility supplement that mineralizes the soil. It comes from processing very clean sea water and contains 85 or more minerals and trace minerals in the same proportions that those same minerals occur in the blood of healthy animals. All of our soils are terribly deficient in these minerals.

In addition to the positive impact sea minerals have on the plants and land, it is a much less expensive alternative to commercial fertilizer. The farmer can fertilize an acre for \$6 per application

with a suggestion of 3 applications per year for \$18/acre/year. It is applied as a foliar spray on green plants. Not only is it a cheaper method, but Sea Minerals FA has a lasting positive effect on the microbes in the soil. With using commercial fertilizer, microbes are destroyed in the soil. Sea mineral nutrients stay in the soil from year to year and build and enhance the soil. SEA MINERALS FA can be used without any other fertilizer with good results. It can also be mixed with other ingredients, such as weed killers or fertilizer in the sprayer.

Sea Minerals FA also makes great free-choice mineral for cattle. Cows will consume one pound per month on average. They will not require any other mineral or salt for a savings of over 50%. It has been shown to decrease cell count in dairy cattle. It plays a key role in producing better quality milk and butcher beef. The cows and calves stay healthier

Check the website [www.SeaMineralsFA.com](http://www.SeaMineralsFA.com) for 2010 field trial results or call Rocky Springs Ranch 800-967-0452 for your nearest distributor. 📧

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 \$12950 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 \$7695 plus S&H.

The PERC 206 is a skid-mounted unit with a 6.5 hp engine, two reels with 50' hoses and hand probes. It sells for \$4595 plus S&H.

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



sells for \$4995 plus S&H.

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A PERC system can treat moderately infested alfalfa fields at about 3.5 acres an hour with a single operator. Each probed location requires only about 1 to 2 minutes injection time.

Units have been shipped to customers from Southern California to central Canada and as far east as Florida. Though most of the market has been with alfalfa growers, orchard and specialty crop growers have also purchased units. The PERC system is the best solution anywhere burrowing rodents are a problem.

For more information call (530) 667-5181 or visit the website [www.handmgophercontrol.com](http://www.handmgophercontrol.com)

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*I am sending you some pictures of our 3rd cutting alfalfa on a first year field (see the pictures and the complete story at [www.SeaMineralsFA.com](http://www.SeaMineralsFA.com)). It is crotch high on my son who is 6ft. This has been sprayed with Sea Minerals FA 3 times, one time each cutting. We have had little to no natural moisture here since October of 2010. We are very pleased with the results and plan on continuing using it as we are seeing improvement in production with each cutting. July 30, 201-*

— W. Dilts, Belen, NM

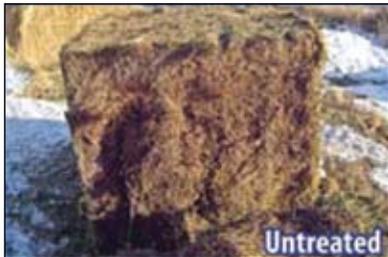
- Apply any time during the growing season.
- \$8 per application ( 3 times per year recommended for \$24/acre)
- Works as a soil fertility supplement that re-mineralizes the soil
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The concept of the Nurturite product line revolves around using emulsified silicone to treat forages. The goal with First Response is to allow the user greater tolerance to moisture; it's used at the baler and can be applied as a replace-



ment for prop acid, allowing users to bale hay at higher moistures without dealing with the typical issues they would have with mold and heating. The treated cost per ton is lower than prop acid on high moisture hay and the product is not corrosive and will not

negatively affect the flavor or smell of the hay.

Raincoat is applied at the swather, designed to provide protection for your forage in the windrow as well. The potential benefits include increased dry matter retention (for alfal-



fa), higher relative feed value due to increased leaf retention (for alfalfa), protection for alfalfa subjected to rain and/or dew and prevention of mold (all forages).

Applicators have been created specifically to work with the unique demands

this product line brings to application, or you can purchase add-on kits that allow the product to work with existing systems. This silicone based product line recently won the 2010 Idaho Commercialized Innovation Award.

Nurturite also has a traditional enzyme based silage product available with a new silicone based concept for silage available this winter. Silage Si is a combination of fermentation enhancing enzymes and silicone designed to improve the fermentation process as well as limit the loss due to oxidation. Silage Si covers a wide spectrum of silages including corn silage, haylage, grass silage and other legume silages. Silage Si is unique in that it protects silages under both high and low moisture conditions.

For more information on the Nurturite product line, please contact Eddie Toms at 763-244-5972 or email him at [eftoms@visi.com](mailto:eftoms@visi.com). 

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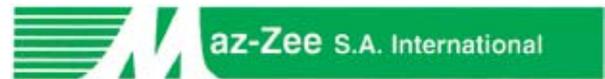
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vides phase conversion solutions for the farmer in agricultural use, including for water distribution, dairy farming, milking,



augers, grain dryers, conveyers, cooling towers, and also for the wine production industry to run crusher-stemmers, wine presses, bottle corkers, irrigation pumps, etc. The Rotary Converter is designed to operate as modules with the ability to be

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30 years. The reason for the reliability is fairly obvious. Phase-A-Matic, Inc. Rotary Converters do not have start capacitors or contactors or mechanical connections of any kind as most other converters do, which contributes to and is usually the most common cause of failure. All connections are soldered, which is not feasible with other designs. Even though some other manufacturers claim to use Baldor motors, they still have start capacitors and switch gear, which we have eliminated by working with Baldor for approx. 2 years to develop the way these are engineered. It pays to buy Phase-A-Matic, Inc. for long life and high reliability. There is very little to go wrong with the Rotary Converter.

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# The Importance Of Grain Temperature Detection

Temperature is the key to safe grain storage. When grain goes out of condition, regardless of the cause, there is always an unusual increase in temperature. Temperature is the only truly accurate indicator of grain quality for those who manage grain.

Knowledge of the causes of deterioration and spoilage in grain is essential to the grain manager. Although more is yet to be learned, grain workers and scientific researchers have jointly given much sound information with which to work.

To point out the uses of a grain temperature system, we will discuss various applications of temperature information.

Grain is a living organism. Like other living things, it breathes (respires) and it may become sick. Excessive moisture, high temperature, and poor grain condition (damaged kernels) are generally considered the most important factors that lead to trouble in stored grain.

The use of moisture tests in receiving grain

is an indication of the great importance given moisture as a criterion for storage ability. Some tend to over-emphasize moisture content to the exclusion of all other factors, but low moisture content is not enough to ensure trouble-free storage. In fact, deterioration from excessive moisture can occur in grain which is placed in storage at a uniform moisture content below that considered safe for long term storage. Temperature and atmospheric changes can cause certain areas within a mass of stored grain to rise in moisture above the critical safe moisture level.

Temperature importance is best indicated by the use of refrigeration to keep foodstuffs, and by the tendency of high temperatures to speed most chemical reactions.

Grain condition refers to the soundness of grain. It has been demonstrated that unsound grain (grain with a high percentage of damaged kernels, greater number of microorganisms, and with deteriorative chemical changes) is much more likely to heat in storage than sound grain of the same mois-

ture content. Both grain respiration and the growth of microorganisms are thought to be affected when grain is unsound.

Now let us examine the causes of heating, and determine their relationship to grain deterioration and spoilage.

The three specific causes of heating that are of interest to you are:

1. **respiration of the grain itself (metabolism of viable grain)**
2. **microflora (microorganisms such as fungi and bacteria)**
3. **insect infestation.**

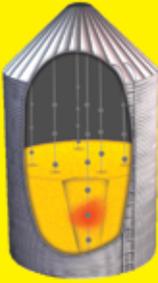
All three contribute to total respiration and heat production below 135° F. One type of heating alone can cause trouble, but one type of heating can also serve to trigger another problem which will contribute to total heat production.

Grain respiration increases as the moisture content of grain increases. This increase is gradual until a critical moisture content is passed. Respiration then increases faster than the heat of respiration can be dissi-

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pated. This will cause a marked temperature rise, but corrections are possible before damage is done; i.e. aerate, turn, or dry. This condition will occur in grain of relatively high moisture content and in cases of moisture translocation.

The increased temperatures are likely to excite the other two causes of heating. When grain respiration alone is the cause of heating, visual inspection of the trouble area, while turning, will show little evidence of cause. If moisture translocation has brought about the increased rate of respiration of the grain, aeration can be employed to correct the situation.

If the moisture content of the entire lot of grain approaches or exceeds the critical limit, and if grain drying equipment is available, drying is advisable, especially as a precaution against future problems.

The important thing to note about microorganisms is the fact that they respire and tend to increase the rate of respiration of the grain. Thus a rise in temperature can mean microorganism growth. If the temperatures of the grain mass are low, such growth can be slow and temperature rises relatively small.

Slowly rising temperatures warrant investigation of the causes. When indications appear, look closely for growth of microorganisms as you inspect your grain.

During the last 70 years, many factors have made accurate temperature knowledge even more important than before. For example:

1. Grain is stored longer and in larger bins, making the risk in holding it greater.
2. Damage from insect infestation is great.
3. Grain is harvested and often stored when it has high moisture content.
4. There is a greater demand for top quality grain.
5. The cost of handling and moving grain has increased. It costs from 2-1/2 to 5 cents per bushel to move grain. Accurate temperature information allows an operator to turn his grain only when it must be turned.
6. Buyers today want assurance that grain purchased is of uniform quality throughout. Unless a grain manager has temperature records, one cannot be certain of the condition of purchased grain.
7. With the use of aeration systems, temperature knowledge is essential. The grain manager must know if and when hot spots are forming before the aeration system can do a thorough and economical job.

These are the reasons why temperature information is important to a modern cost-conscious grain manager. No matter what type of grain is stored, the same basic principle holds true: **You must know the temperature of your grain to know the condition**

**of your grain.** It is imperative that the grain manager has accurate, complete, and up-to-date temperature information for good grain management. Monitoring the temperature of grain on a regular basis gives the manager the best chance to make a correction when a temperature change is occurring. Knowing the temperature of the grain makes it possible for the fans to be run only when they are needed, saving money in utilities.

Now, there are several ways to obtain this temperature.

1. You could use the "Feel and Smell" method. All that is required here is for the grain manager to feel the side of his bin and smell inside the bin in an attempt to detect heating. Another variation of this method is while turning the grain, it is felt, smelled, and/or visually inspected on a belt or at a spout outlet to detect heating. Obviously, this method has its drawbacks.

2. The "Thermometer Method" is another way to read temperatures. With this method, pipes are inserted into the grain mass and a thermometer lowered into them. After a time, the thermometer is raised and the temperature read for that point. This method also has several serious drawbacks. It is very time consuming. (A ther-

continued on page 22

# Diamond W Corrals introduces the portable sorting and gathering system by the original designer of the Wilson Wheel Corral.

**Y**ou will not believe the size of this system! The ease of sorting your cattle or horses in the field will amaze you! No more gathering, loading, unloading, sorting and then reloading. No more stressing your herd to get them out of the pasture. Thanks to Burlington Welding, LLC, home of the Diamond W Corral, those days are gone. One system, one move, and you're done and home in time for lunch.

This is a goose-neck unit that opens for access in or out of the front. There is a total 16 gates throughout the system. On each end of the alley there are two sets of 6' gates that open between the split goose-neck hitch and the rear axle

assembly. The rancher has two sorting pens measuring 15' 6" X 15' 6" with a



height of all panels at 6'. This gives the rancher the ability to tie into the sorting system with any type of portable corral or stock trailer in the field.

A hydraulic system sets the unit down on the ground, and when ready to move, lifts it up for transport. The hydraulic system is operated by a 12-volt battery charged with a solar panel and the ease of pushing a button. All systems are assembled with spring-loaded latches on the interior gates for added convenience. A 10' gate allows you to drive thru the alleyway with a cake truck.

Let us show you our newest product! Contact Burlington Welding, LLC at 580-431-2556 or 580-327-7867. You can see our web page at [www.diamond-wcorrals.com](http://www.diamond-wcorrals.com) or e-mail us at [diamond-wcorrals@yahoo.com](mailto:diamond-wcorrals@yahoo.com)



## Grain Temperature Detection

continued from page 21

meter is not designed to furnish quick readings). It must also pass through grain temperatures which are above or below that which is to be measured. It must be read very quickly once it is withdrawn from the pipe, and often in a poorly-lit area, making fast, accurate readings nearly impossible. In addition, currents are set up inside the pipe itself which may affect the readings. Although much better than the "feel and smell" method, the thermometer method leaves much to be desired in all phases of accuracy, dependability and speed of obtaining temperatures.

3. A third concept is the temperature cable method. One type of temperature cable utilizes thermocouples to read temperatures. A thermocouple is nothing more than two dissimilar metals soldered together to make a heat sensing point. TSGC cables have thermocouples made of copper and constantan (an alloy of copper and nickel), the most sensitive combination made for grain bin temperature scanning systems.

Thermocouples are the most widely used temperature sensor for several reasons. They are rugged, low-cost, dependable, and accurate. The measurement is a point measurement with fairly quick response to temperature change. Watching the trend of the temperatures provides a clear indication of unusual temperature activity.

To repeat the paragraph we began with: *Temperature is the key to safe grain storage and quality grain. When grain goes out of condition, regardless of the cause, there is always an unusual increase in temperature. Temperature is the only truly accurate indicator of grain quality for those who manage grain.*

TSGC, Inc. is one of the largest suppliers

of grain temperature monitoring equipment in the world. Headquartered in America's Heartland, their administration, fabricating, sales and service divisions are located in Spirit Lake, Iowa. They also have an extensive network of contractors representing their products and services nationwide and in over forty countries. TSGC, Inc. is dedicated to serving you.



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C M Welding Inc. has designed a concave/grate that has 1/2 "sq bars with 1 1/4" opening between. The new concave/grate will replace the rear concave on all of the STS and S series machines. The 1/2" Square bars plus the 1 1/4 space between the bars will increase material volume flow by 68%. The more crop volume you can get out of the concave section, the less has to be separated over the grate section.

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put (analog or digital) to allow constant monitoring of the cylinder rod position. Sensor voltage supply: 12/24 VDC. Applications include: steering control, levelling jacks, paver height, snow plow blade control, trash truck automation, etc. For more information, visit: [www.crossmfg.com](http://www.crossmfg.com)



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At Boyd Ag, we provide service to farmers, custom applicators, dealers and any individual that need help meeting their used equipment needs. Our goal is to match up the right equipment for the job each customer requires.

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800-637-7884 or find us on the web at [boydag.com](http://boydag.com)

## Dyna Flo, Inc. announces the Dyna Flo Pump

General Irrigation is licensed in sales, design and installation of deep well and submersible pumps with 40+ years' hands-on experience. We have been selling and installing electric pumps, diesel-driven pumps and PTO pumps for irrigation, and industrial applications. WE have extensive knowledge in handling water and a subsurface and surface dewatering division.

Throughout the years, we have had many calls from farmers and contractors desiring a flood pump that would pump 3,000 gallons per minute without exhausting their budget. Four years ago, General Irrigation created the Dyna-Flo Pump.

We decided to keep it simple using proven technology. The water lube bearings and bearing pedestals are similar to

what a deep well turbine is built with. The packing box and gland are similar to what a centrifugal pump would use.



We incorporated an adjustable swivel on the hitch to more easily adapt to

ditches, canals, and sump holes. Sand collars are used to deflect silt and sand away from the water lube bearings retainers.

Maine-style wheel bearings with spring-loaded grease cups will resist water contamination, and has only one grease able high thrust ball bearing on the drive line behind the PTO shaft.

The Dyna Flo pump operates at 1,000 RPM and will produce 3,000 GPM at approx. 15 feet of lift. The 12"x 50" hoses are fitted with ring lock ends.

The pump can be used for flood control, emptying sloughs, flooding rice ponds and cranberry ponds as well as for water transfer.

For more information about this pump, visit [www.dynaflopump.com](http://www.dynaflopump.com)

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# C&R Supply, Inc. Birth of a Sprayer

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 of sprayer to meet their needs.

“Instead of taking an off the shelf tank and attaching features, we needed to get all the input we could from customers and ATV manufacturers”, said product manager Dusty Miller. “With a good vision of what features and options were required, it became obvious that a completely new tank design was needed”.

The EZ ATV Sprayer was designed with the operator in mind for ease of operation and functional ability and safety. With the sleek design 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 sprayer dual sumps to give 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



Spray 30 feet wide with no boom

as a dual sash baffle. The top of the tank is designed with a fill catch area to prevent chemical from getting on the operator. The EZ 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 requirements and needs.

C&R Supply, Inc. is a distributor and manufacturer of agricultural and roadside spray equipment located in Sioux Falls, South Dakota. For over 35 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 such as their C&R Foam Marker, Spot Sprayer, and the EZ ATV Sprayer featured in this ad. C&R is a provider for precision ag products such as GPS guidance systems, variable rate controllers, mapping, steering assist systems, and chemical injection units. C&R prides themselves on the knowledge and experience that is required to keep up with today's technology. 

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# Save Your Hearing With A New FEHR CAB KIT

After years of hard work, your tractor and combine cabs start showing their age (just like us farmers)! The foam starts sagging and deteriorating, making your cab dirty, dusty and noisy, but a new FEHR CAB INTERIOR can help your tractor environment become quieter and cleaner. The insulation really should be replaced when it starts to harden and crumble, because it loses all acoustical properties and the sound waves are no longer absorbed. Hours spent in a noisy cab can damage your hearing!

FEHR CAB INTERIORS began as an upholstery service in 1988. As farmers began requesting new insulation for their tractors, we researched and found the original materials for all the different models, and went right to our customer's farms with our service: sewing machine, glue pots, and cutting tables. We replaced hundreds of tractor and combine cab interiors in farmers' machine sheds across the Midwest.

As our customer demand grew, we put together pre-cut, formed, and pre-sewed kits for the most popular models and started shipping the kits to farmers all over the country. FEHR CAB INTERIOR kits are complete with detailed instructions, a diagram, and the best adhesives for applying our parts. Since we also install many cab kits, we know how they need to be made for the best fit.

In the last 15 years the ag-industry has shifted to pre-molded, thermoformed plastic components. We are now manufacturing the most popular parts, and add new models as demand requests.

It's simple to order from us: call 815-692-3355 or fax us at 815-692-2574 or visit our website @ [www.fehrcab.com](http://www.fehrcab.com). We try to ship your order right to your farm within a few days.

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• Ford 8600, 9600 (black) .....	\$315	• JD 40, 50, 55, 60 2W Post Kit .....	\$60
• Ford 7700, TW10 Lwr. (blue) .....	\$225	• JD 30, 40, 50 3-part formed Headliner .....	\$226
• Ford 7700, formed Headliner .....	\$267	• JD 30, 40, 55, 60, 70 2W & 4W Headliner ...	\$226
• IH 86 & 88 Srs. Lower 2W (black) .....	\$129	• JD 30, 40, 55, 60 2W Cowl Unit .....	\$139
• IH 86 & 88 Srs. Headliner .....	\$135	• JD 6600, 7700 Combine .....	\$184
• IH 1420-1480 Combine .....	\$162	• JD 20 Srs. Combine Lwr. ....	\$96
• CIH 7120-8900 Magnum Lower .....	\$186	• MF 2675-2805 .....	\$195
• CIH 9120-9180 (brown or gray) .....	\$224	• MF 550, 760, 860 Combine .....	\$211-\$296, \$507
• CIH 1620-1688 Combine .....	\$228	• Steiger ST & PT Srs. 3 .....	\$252
• Case 70 Srs. 2W .....	\$240	• Versatile 846-1156- Lwr. ....	\$364
• Case 2394, 2594, 3594 .....	\$245	• Versatile 756-1156 formed Headliner .....	\$285
• JD 4030-4630 Lwr. ....	\$144	• White Oliver/MM 55 Srs. ....	\$205
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# Delta Grain Bags – Storing Grain Without Costly Bins

## What is a grain bag?

A grain bag is simply a long PE (polyethylene) bag that comes in sizes of 9 ft. x 200 ft. with a capacity of around 8,200 bushels of wheat or 8,000 bushels of corn (empty bag weight is 270 lbs.), or in 9 ft. x 250 ft. bags with a capacity of around 10,250 bushels of wheat or 10,000 bushels of corn (empty bag weight is 335 lbs.). It should be noted that these capacity amounts may vary with moisture content, specific weight and bagger pressure settings.

The bag is sealed airtight with a life of 1 to 1.5 years in the open, preventing the development and reproduction of fungus and insect. This airtight environment can eliminate the need for storage amounts to vary by simply cutting the bag and resealing it again.

## What makes them unique?

The grain bag is a laminated mix of three layers of polyethylene with the first two layers acting as a UV filter. The

third layer is black and is designed to keep out the sunlight.

The unique, specialized design of grain bags not only allow them to stretch to a maximum of 10% measured during the filling process to prevent overfilling, but also allow for storage versatility, whether in the field where harvesting is taking place or a grain storage site, as long as the bags are placed on clean ground with good drainage and free of sharp objects.

## Grain bags vs. forage bags

It is not just a plastic bag that makes a grain bag! Grain bags are designed and developed to store dry grain. Forage bags are designed to store forages.

Grain bags have an 18 month warranty against ultra-violet degradation, defective material and workmanship. Forage bags are not recommended for long term storage of dry grain.

Grain bags are 9.3 mil thick. This is 4% more than a 9 mil bag, 9% more than

an 8.5 mil bag and 14% more than an 8 mil bag. The thicker mil adds more strength and increases durability. The durability is necessary as the bags experience a huge amount of pull when being unloaded by a roll-up style unloader. When using large horsepower tractors this pulling strength requirement is increased.

Grain bags have more ultra-violet inhibitor (UVI) than the forage bags. More UVI offers longer protection in the sun.

Most people think that the value of a grain bag is all about the thickness. That is only one factor. The chemistry, the physical composition, is far more important in manufacturing a premium bag!

Grain bags have a unique formula that includes a proprietary resin (plastic) that:

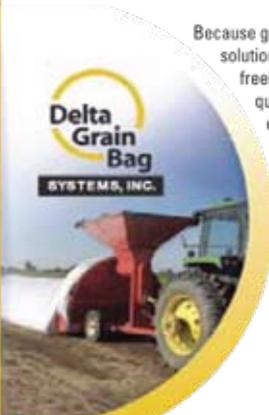
1) Keeps better shape! When using a roll-up style unloader this feature is extremely important. Since dry grain is heavier than forage, its weight and the

**Equip your farm with the easy and economical way to store grain!**  
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*Farmers across the mid-south are storing grain without investing in costly grain bins!*

Storage bags give you control and time to market your crops for top dollar for only 7¢ per bushel without the long-term investment and time delay of building more grain bins. In addition to a wise choice for time and money, the convenience of putting grain bags in the field where harvesting is taking place or anywhere on your farm is a real plus for growers.





Because grain bags are a reliable grain storage solution, grain can be freighted after harvest, freeing up time during harvest without giving up quality or even color. Storage is unlimited especially during a bumper crop season. The bags are sealed air tight without the use of chemicals giving you an organic option for your grains. It's quality storage at a price you can live with.

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tendency to flow makes the bags try to pillow out. On bags that end up too wide, the roll-up style unloader has a real problem on the sides.

2) Increased side wall strength provides better protection due to possible erroneous over-stretching.

3) The higher temperature tolerance of this unique additive allows dry grain to be bagged at a higher ambient air temperature. This can be even more valuable if the customer is bagging hot grain coming from a grain dryer.

Grain bags are a premium bag with unique properties that makes it a valuable piece of the technology to complete the grain bag storage system. Is it wise to gamble your valuable commodity with what appears to be a savings of only pennies per bushel?

**Advantages of grain bags**

- The harvest will not be delayed waiting for storage to become available on farm or elsewhere.
- The grain bag can be put in the field where harvesting is taking place or anywhere on the farm.
- Grains can be stored based on their va-

riety, grade, protein, moisture or for any other reason.

- Bag cost of 7 cents per bushel of stored grain.
- The high price of freight during harvest can be avoided by negotiating a freight rate on a back load or by shopping around for after-harvest rates.
- Grain can be freighted after harvest, freeing up time during harvest.
- Quality assurance control.
- The opportunity to grow, store and market niche crops on farm.
- Grains retain their quality, including color.
- Gives the producer control and time to market the crop.
- Helps avoid hasty decisions on pricing your commodities at harvest when pricing can be complicated and can cost you money.
- Marketing your commodity knowing that you have the crop in the bag, rather than before harvest when you're hoping you can achieve the bushels to fill contracts.
- Storage in a bumper season is unlimited.
- The grain bags are sealed airtight,

therefore chemicals are not required. No withholding period.

- Perfect for organic commodities.
- Reduce reliance on chemicals helping to delay resistance.
- Eliminate costly on-farm storage systems that ties up capital.
- Flexibility at all times from harvest to marketing and feeding commodity.

**How do you fill them?**

The grain bags are filled by a specially designed bag-filling machine that can be filled from the combine, grain cart or similar types of machinery.

The loading capacity of the filling machine is about 7,000 bushels per hour, depending on the grain type.

How do you unload them?

The grain bag is emptied by a machine that rolls the bag up as it augers the grain out at up to 7,000 bushels per hour.

The E180TH Akron Unloader can be used to empty bags of fertilizers.

How can I find out more?

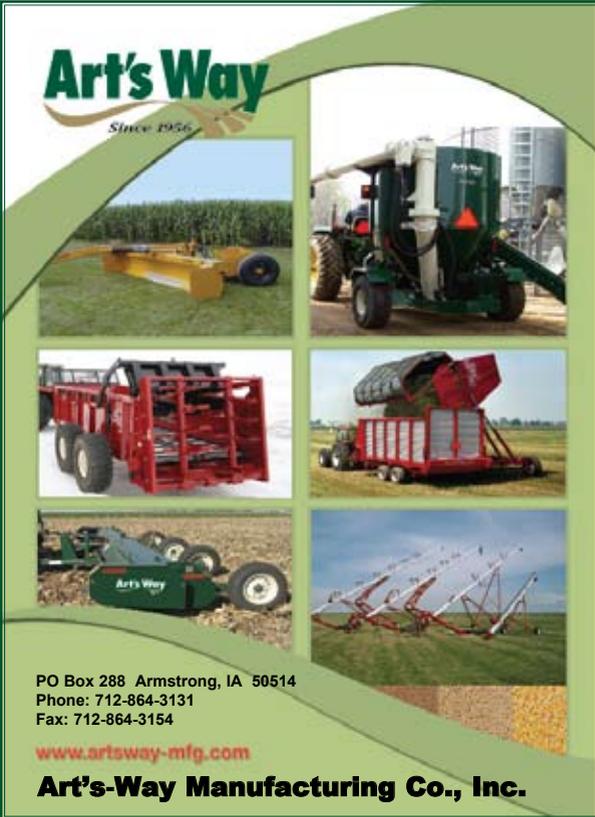
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## Gabel Belting, Inc. – “The Cow Carpet People”

Tim Gabel continues a family tradition started by his father Bob Gabel in 1970. Bob Gabel perfected a method to reclaim used rubber conveyor belt from the mining industry. This rubber belting is made by using the highest quality rubber and bonding it to steel cables which run laterally through the belt. This process produces a product which is very unique for providing rubber flooring in dairy and horse operations. Rubber flooring greatly reduces concrete stress related to problems occurring in the legs and feet of cows confined to free stall dairy facilities.

The steel cables keep the rubber from stretching and buckling caused by constant livestock traffic and skidsteer scraper machines. The belt stays in place and will last indefinitely as compared to the shorter life of some new manufactured rubber products available today.

Unlike these newer manufactured products, the steel cabled rubber belting has a much greater toughness. This provides for a solid rubber floor effect.



Once the belt is reclaimed from the mine it is shipped to our processing yard in Chaffee, NY. In Chaffee we have machines which were developed by Bob Gabel. The machines process the belt and prepare it for a custom made fit once it arrives at the farm.

At the processing yard the belting is passed through a grooving machine. The grooves do much to improve footing once the belt is installed in the typically wet environment of free stall dairy operations – most importantly, the feeder alleys and milk parlor holding area.

Once the belt has been processed and prepared for each custom made order, it is shipped to the farm and ready for installation. Gabel Belting has a crew of professionally trained personnel to install the belt.

For more information contact: Tim Gabel at 716-496-6025, Fax: 716-496-2006, Cell: 716-440-2879, E-mail: gabeltimothy@yahoo.com, website at [www.GabelBelting.com](http://www.GabelBelting.com) or write Tim Gabel Belting, Inc., P.O. Box 358, Route 16 Olean Road in Chaffee, NY 14030

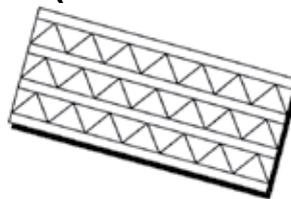


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# Bio-Tech Increases Livestock Profits without Toxins

Last year, Midwest Bio-Tech, Inc. of Erie, Illinois, began its fourth decade of providing non-toxic enzyme products for agriculture, including the complete line of Chandler Livestock Products. The main livestock product is Biobase Rumen, which is an enzyme-based feed additive that multiplies the beneficial microorganisms in the rumen. The product works to increase feed digestion and nutrient absorption, which helps to reduce feeding costs and to improve the daily rate of gain in beef cattle and other ruminant meat animals. The treated animals tend to exhibit fewer health problems and are less susceptible to stress while on the feed, and the market-ready animals will have more lean muscle with a higher dressing percentage. Biobase Rumen may also be fed to dairy cattle, and the product helps to increase milk production as well as milk solids and protein

content. The product may be mixed with farm-raised or commercial feeds, and the recommended feeding rate is 3 to 4 cc's (0.1 to 0.13 ounces) per head per day. The ingredients in Biobase Rumen are completely natural and non-toxic, so a withdrawal period is not required.

Chandler also manufactures Biocat 3000, which is a liquid enzyme treatment for manure pits and lagoons. The product multiplies the microbes that break down manure solids, so more of the waste sediment that accumulates in pits or lagoons may be pumped. Over time, Biocat 3000 will help to liquify all manure solids, and you can utilize the full capacity of the pit. The product also helps to reduce manure odor and makes more of the manure nutrients available for crops when applied to farmland. The product should be applied to the remaining manure solids after each time the pit or lagoon is pumped. The recommended

application rate is one gallon for each 10,000 gallons of non-liquid solids or waste sediment that cannot be pumped, and each gallon should be diluted with at least 10 gallons of water.

Midwest Bio-Tech also packages and distributes the complete line of Chandler Crop Products, including Biocat 1000, Soil, Seed Treat, and Foliar. Like the Chandler Livestock Products, all of the Chandler Crop Products are non-toxic and cost effective when used as recommended. For more information about Midwest Bio-Tech and the Chandler Livestock and Crop Products, please call 309-659-7773, send email to [info@midwestbioman.com](mailto:info@midwestbioman.com), or visit the company website at [www.midwestbioman.com](http://www.midwestbioman.com). The website provides product brochures and technical papers as well as the latest data on test results, application rates, pricing, and shipping information. 

## Chandler Livestock Products

### Biobase Rumen

- Enzyme feed additive multiplies the beneficial organisms in the rumen
- Increases digestion and absorption of nutrients
- Higher feed efficiency & output in beef & dairy



### Biocat 3000

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# Smuggled Horses in West Texas Found to be Diseased

U.S. Border Patrol agents recently seized 10 adult horses and four yearlings as they attempted to enter Texas illegally by walking across the Rio Grande River near Indian Hot Springs, in southern Hudspeth county, south of El Paso. The animals were turned over to the United States Department of Agriculture, Animal Plant Health Inspection Service, Veterinary Service (USDA/APHIS/VS) officials, who tested the horses in Presidio, Texas for a number of disease conditions that are considered foreign to the U.S. All 10 of the adult animals tested positive for Equine Piroplasmiasis (EP). EP is routinely found in Mexico and numerous other countries around the world, but is not considered to be endemic to the U.S.

The blood borne protozoal disease can be fatal to horses and could create major constraints to interstate and international movements if left undetected. EP does not affect humans.

According to Dr. Grant Wease, field veterinarian for USDA/APHIS/VS in El Paso, the illegal movement of animals is an ongoing concern in the vast open spaces of West Texas. "In some places the Rio Grande poses no barrier at all to foot traffic for man or animal." According to the latest USDA information, Dr. Wease indicated that "In 2011, approximately 280 head of cattle and 160 head of equine (primarily horses) were intercepted by USDA officials along the Rio Grande." To further complicate the situation, many of the normal import process for live-

stock entering Texas have been impacted by border violence, making the attempt to smuggle animals into the state even more tempting.

The investigation by USDA and Texas Animal Health Commission (TAHC) is ongoing to determine not only the source of the horses, but the possible destination as well. The TAHC recently passed EP rules requiring testing of race horses prior to entry into a Texas track, and numerous other states have done the same because of recent cases found in that population of horses. "Racing Quarter horses with some connection to Mexico appear to be at highest risk of testing positive to the emerging disease," according to Dr. Dee Ellis, State Veterinarian and TAHC Executive Direc-

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tor. Although the interdicted horses were described as Thoroughbreds, they were considered to be more likely breeding type animals rather than race ready horses. Dr. Ellis went on to state, "This situation highlights the ongoing border security problems Texas is facing, which leads to an increased risk of disease introduction for the Texas livestock population when animals enter our state illegally. I encourage all citizens that witness

unusual activity regarding livestock movement near the Mexican border to contact their local law enforcement or animal health officials as quickly as possible to report the situation."

The TAHC strives to provide quality customer service to the citizens of Texas and works with its USDA partners daily to protect Texas livestock and poultry from foreign animal diseases. With limited state and federal resources however, the two agencies

must continually review ongoing surveillance efforts along the border to ensure their actions are as effective as possible.

For more information contact the TAHC at 1-800-550-8242 or visit [www.tahc.state.tx.us](http://www.tahc.state.tx.us).

Founded in 1893, the TAHC works to protect the health of all Texas livestock including cattle, swine, poultry, sheep, goats, equine animals and exotic livestock. 

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# Caring for the Environment — a Cornerstone of the Dairy Industry

Every glass of milk helps contribute jobs, income and vitality to hundreds of communities across the nation. From the multi-generation dairy farm families, to the companies that process milk and produce other nutritious dairy products, to the neighborhood grocer, dairy farmers and dairy companies don't stand alone—they actively support and strengthen local and national economies. Dairy businesses contribute as employers, purchasers of supplies from local companies, supporters of community civic and charity groups and more. In fact, in 2011, on-farm cash receipts from milk produced on Idaho farms amounted to \$2.446 billion dollars ranking it as the largest single sector in the state's agriculture industry.

At its core, sustainability is about stewardship — it's about caring for farms, the environment and our communities —cornerstones of the dairy industry's legacy. This long heritage as responsible stewards of the land, air and water has allowed dairy farmers to pass their farms along to multiple generations.

Today, the world's population growth

is putting further pressure on our finite resources, along with other growing environmental concerns. Through the U.S. Dairy Sustainability Commitment, dairy farmers, dairy processors, retailers and businesses are working together so they can continue to provide products that are nutritious, produced responsibly and economically viable for all.

The 2011, industry-level, U.S. Dairy Sustainability Report from the Innovation Center for U.S. Dairy discusses the national efforts underway and provides a summary of the industry's progress and goals. The full report and the executive summary are available for download at [USDairy.com/Sustainability/Report](http://USDairy.com/Sustainability/Report).

"Across the supply chain, the dairy industry continues to demonstrate leadership in meeting consumer demand for great-tasting, wholesome and nutritious dairy products, while finding new ways to preserve our planet's precious resources," said Barbara O'Brien, president of the Innovation Center for U.S. Dairy, which was founded under the leadership of America's dairy producers.

For the dairy industry, sustainability is as much about telling our story as it is

about using resources wisely and sustaining our dairy farm businesses for the next generation. To help showcase the many outstanding efforts underway, the Innovation Center for U.S. Dairy® launched the U.S. Dairy Sustainability Awards, a program to recognize dairy farms, dairy companies and collaborative partnerships for efforts that advance the sustainability of the dairy industry.

Winners of the 2011 awards were recently announced and while the award program is brand new, the sustainability practices of the winners, and others throughout the dairy supply chain, are not.

Dairy producers, with support from across the supply chain, are continuously advancing production methods to meet the needs of a growing population. Caring for the land, air and water is a responsibility dairy farmers share with their local communities. In addition, dairy farmers and businesses across the industry are working with governmental agencies, university experts and environmental organizations to develop new technologies aimed at conserving national resources and protecting the environment. Learn more about these stories and more at [USDairy.com/Sustainability](http://USDairy.com/Sustainability) 🌱

## Let's Fight for Healthier Kids

Children are the future and we all have a role in making sure they have the best chance at leading healthy, productive lives. Childhood obesity is an epidemic in the United States and it's important to consider that many children are not only overweight, but also undernourished. Over 16 million children live in food insecure households, meaning many go to bed hungry. Today's children could become the first generation with a shorter life expectancy than their parents.

The dairy industry is committed to providing healthy products that align with the 2010 Dietary Guidelines and school meal standards and to giving children access to proper nutrition and nutrition education in schools. Dairy foods help feed nearly 40 million children through

school meal programs, Woman, Infants and Children (WIC) and other public health programs, and for many children, these meals provide the only nutrient-rich foods in their day.

For dairy, there are many opportunities to support this commitment to healthy children such as providing innovative, nutrient-rich dairy foods for school and government feeding programs as well as to supermarkets, quick service restaurants and more. Additionally, joining public-private initiatives with a focus on improving child health is a way to be involved in change for future generations.

National Dairy Council® and the National Football League®, in collaboration with the U.S. Department of Agriculture, launched Fuel Up to Play 60 in order to encourage small, positive steps within

the school environment for sustainable changes toward healthier food choices and increased physical activity for children.

Fuel Up to Play 60 is one of the largest national in-school nutrition and physical activity programs that exist today. More than 70,000 schools are enrolled in Fuel Up to Play 60, representing two-thirds of U.S. school districts and serving over 36 million children. The program also is supported by the nation's leading health and nutrition organizations including the American Academy of Pediatrics, the American Academy of Family Physicians, the Academy of Nutrition and Dietetics and its Foundation, Action for Healthy Kids, the National Hispanic Medical Association, the National Medical Association and the School Nutrition Association. 🌱

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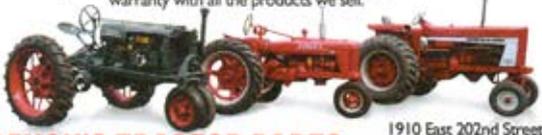
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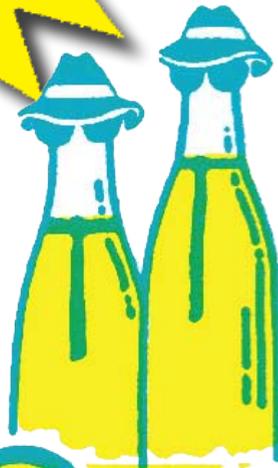
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