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ON THE COVER

Grassed contour buffer strips cover an entire field in Tama County, Iowa. Photo by Lynn Betts, courtesy of USDA.

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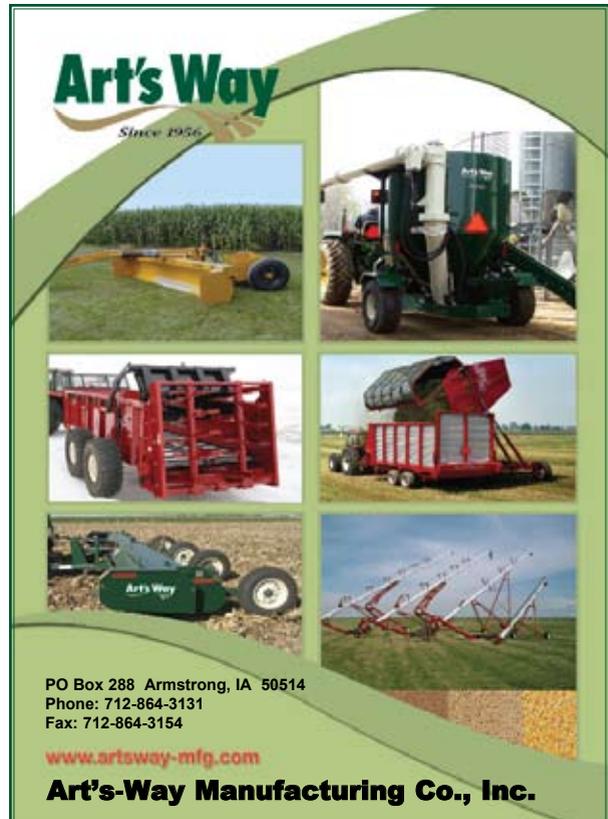
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Pressurized Exhaust Kills Burrowing Rodents

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 le-

thal 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 115 psi in a storage tank. An air hose and a hand held probe inject

Scorpion Truck Bed Linings

Scorpion Truck Bed Linings (www.ScorpionLinings.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) 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). 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). 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. 📞

Hydroscreen Taking the Trash Out Just for You!

“Living on a farm my entire life has taught me many things. One of those is that irrigating is a time consuming job that must be done in a timely manner. Hydroscreen can help with the time. Instead of checking water every hour in some cases, we can lower that to just once or twice a day. Hydroscreen takes the trash out of the water before it gets to the field, stopping the need to clean off the tubes, gates and nozzles.

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 area 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

- Six models to choose from.
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the gas directly into the burrow without any digging.

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 \$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.



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.

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

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PolyExcel, LLC

Introducing The Newest Forage Treatment Technology

During these times of unpredictable weather and relatively short hay supplies, hay growers need all the help they can get to maxi-

mize the quality of the forages they put up. A new silicone-based product line marketed by PolyExcel LLC will allow growers greater flexibility than what has

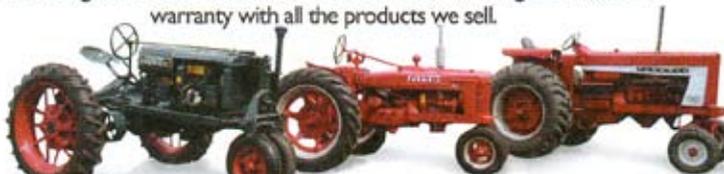
previously been available on the market.

Winner of the 2010 Idaho Commercialized Innovation Award, the Nurturite product line revolves around using emulsified silicone to treat forages. First Response allows a greater tolerance to moisture. It is used at the baler and can be applied as an alternative for propionic acid. Producers are able to bale hay at higher moistures without the typical issues they would have with mold and heating. The treated cost per ton is lower than propionic acid on high moisture hay and the product is not corrosive and will not negatively affect the flavor or smell of the hay.

A second product in the line, Raincoat, is applied at the swather. Raincoat gives protection for your forage in the windrow as well as inside the bale. There are a host of potential benefits received from treatment at the swather, including increased dry matter retention (for alfalfa), higher relative feed value due to increased leaf retention (for alfalfa), protection for al-

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alfalfa subjected to rain or dew and prevention of mold (all forages).

Jim Whittle from Gooding, Idaho has used both products over the last couple years and credits them with allowing him to put up better hay in any conditions, especially adverse situations when he never would have even thought about baling previously.



Untreated

“I have used First Response at the baler and baled alfalfa at very high moisture. The product did a very good job at controlling the mold and kept heating under control. I’ve also used Raincoat on almost all of the alfalfa I have put up throughout the last year. I’ve seen improvement in dry matter recovery and overall test on the alfalfa, and it has allowed me to put up good hay even during periods of heavy dew or rainfall. Using a combination of these two products, I feel like I can get good results under almost any circumstance.”



Treated

The Nurturite line also includes an enzyme-based silage treatment, Silage PT, that gives the positive natural bacteria an advantage in the silage mass. A silicone-based product for silage will also be available during the course of the season. It will have the benefits of the more traditional product – stability, shelf life and ease of use – but will also help to prevent mold and heating in the pit to provide even more consistent silage throughout the pile.

For more information on the Nurturite product line, please contact Eddie Toms at 763-244-5972 or eftoms@visi.com



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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 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.)

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Ron's Mfg.

(Please see press release in this issue)

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Elston Manufacturing

From Sanders to Gopher Getters

In 1925, Rue R. Elston, the founder of the Elston Company and his wife, Clara, and son, Wendell, moved to Sioux Falls, SD from Spencer, Iowa. Rue found employment with the Manchester Biscuit Company. The next



year his son Jack was born. In 1927 Rue, wife Clara, and two sons, Wendell and Jack moved to Minneapolis, MN where Rue found work as a bus driver for Twin City Motor Bus.

One snowy night, Rue saw a young man get hit by a car while spreading sand with a shovel at a bus stop. The man lost his leg in the accident. After seeing this accident, Rue thought a unit could be manufactured to mount in front of the drive wheels of a bus and be electrically controlled by the driver. Such a unit could help eliminate this type of accident by spreading sand in front of the drive wheels of the bus. After extensive testing and engineering, the first units were installed on Greyhound buses.

In 1938 a corporation was formed to manufacture the Elston Electric Sander. Today sanders are used on city buses such as those in Seattle, Washington and are mandatory on school buses in many Northern States. They are also used on fire trucks and a special design for railroad trains.

In 1952 Rue, and his son Jack, engineered and designed the Elston Cargo Space heater, a unit that controls the inside temperature of semi-trailers that transport products that cannot



be frozen. Through the years several models have been designed. These units are sold in the United States, Canada, and parts of Europe. **®**

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have taught many people in their journey to independence. We have people who are

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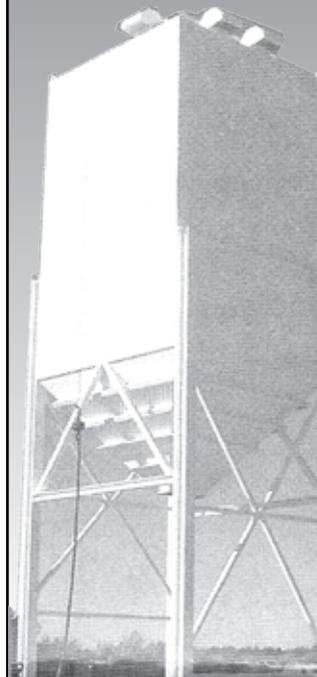
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Missouri Hay Tarps

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.

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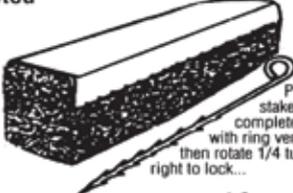
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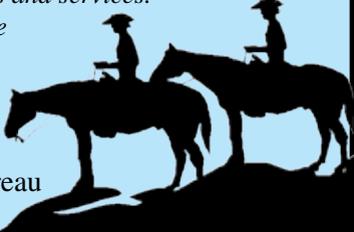
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which contributes to and is usually the most common cause of failure. All connections are soldered, which is not feasible with other designs. Even though some other manufacturers claim to use Baldor motors, they still have start capacitors and switch 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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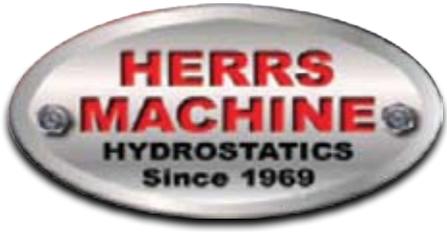
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The Importance Of Grain Temperature Detection

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 moisture 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 dissipated. 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.

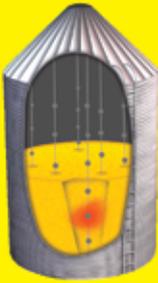
The increased temperatures are likely to excite the other two causes of heating. When grain respiration alone is the cause of heating, visual inspection of the trouble area, while turning, will show little evidence of cause. If moisture translocation has brought about the increased rate of respiration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

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ture 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 thermometer 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

Continued on page 23

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“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,



Spray 30 feet wide with no boom

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 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.

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Grain Temperature Detection

Continued from page 21

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.*

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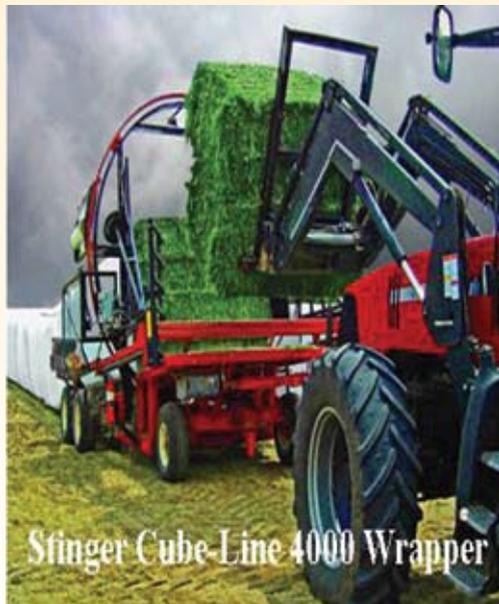


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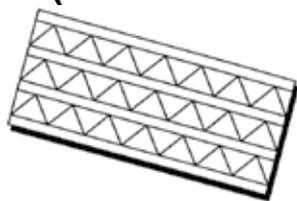
Once the belt is reclaimed from the mine it is shipped to our processing yard in Chaffee, NY. In Chaffee we have machines which were developed by Bob Gabel. The machines process the belt and prepare it for a custom made fit once it arrives at the farm.

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.

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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 or write Tim Gabel Belting, Inc., P.O. Box 358, Route 16 Olean Road in Chaffee, NY 14030

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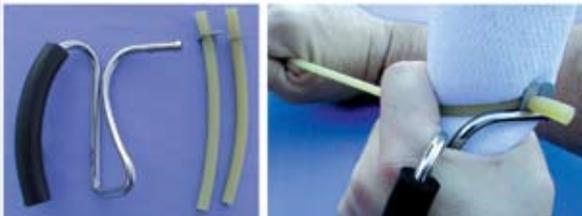


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This is a goose-neck unit that opens for access in or out of the front. There is a total 16 gates throughout the system. On each end of the alley there are two sets of 6' gates that open between the split goose-neck hitch and the rear axle assembly.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

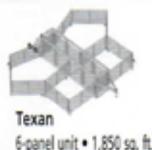
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Uncle Wesley Sawyer, like many ranchers in West Texas, kept Spanish Goats. Upon Wesley's death, his nieces and nephews inherited his ranch. At that time, on the Edwin Sawyer ranch, Eddie Sawyer, Sarah's brother, developed an interest in the Spanish Goats from the Wesley Sawyer line and began to breed those Spanish goats to bring out

their strengths. He used a herd consultant and started culling on undesirable



traits. When Angelo State University started a buck performance test, he began sending the Sawyer bucks to the test. Upon the death of Edwin and Lura

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