

Western Farm, Ranch & Dairy Magazine

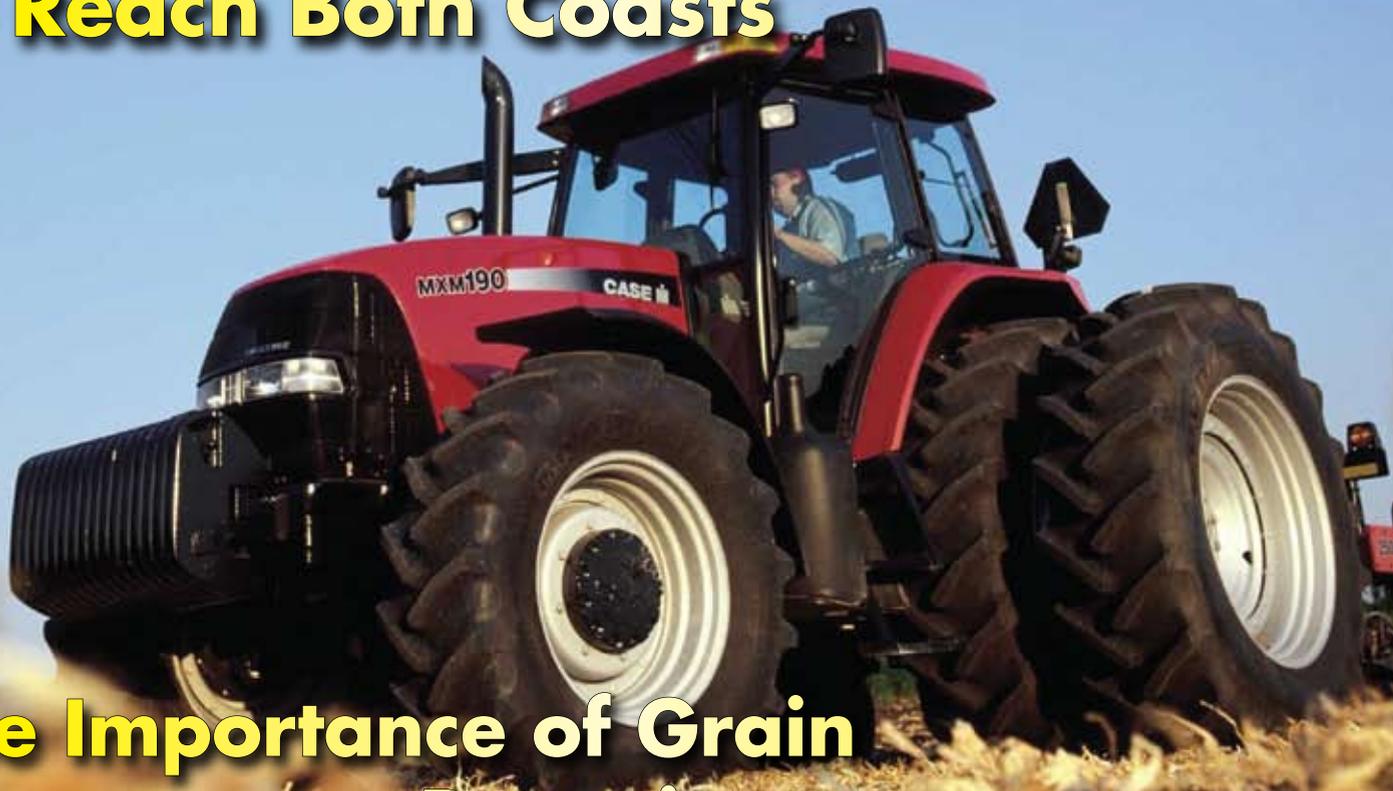
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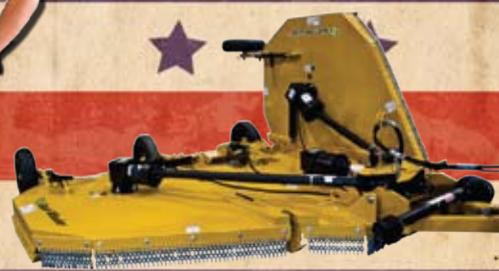
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PAGE 12



PAGE 22



PAGE 34



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Agriculture

North Dakota Seed Potatoes	8
Considerations for growth and success with Canela Russet	10
Montana Seed Potato Certification Program	11
Ron's Manufacturing	
Vertical Tillage Coulter Kit Attachment Gets Even Stronger	12
Midwest Bio-Tech Grows to Reach Both Coasts	12
MagnuM Heat	13
Grazing Grass On Irrigated Farms	14
Oasis Montana	15
The Importance Of Grain Temperature Detection	16
Fertilize-Big Yields AND Low Cost	20
American Agra Curtains Inc.	
The Original Customized Insulated Curtain For Livestock Buildings	20

Equipment

Horstline Newst Member: The LS200 Lime Spreader	22
Cross Manufacturing	
CROSS PDH Position Cylinder	22
Hall Manufacturing	
Bush-Whacker Mowers	22
Pressurized Exhaust Kills Burrowing Rodents	24
Emerson Mfg. Corporation	
100% Built in the USA!	24
Track Works	25
Tee-Post Driver System	26
Manchester Manufacturing Company	26
Scorpion Truck Bed Linings	26
Phase-A-Matic - 3 Phase Power Anywhere!	28
C&R Supply, Inc. Birth Of A Sprayer	28
Delta-Tooth Harrow	
The Shape Of The Future	30

Livestock

Multimin and Multivalent Live – Viral Vaccines in Dairies:	32
Turner Dairy Stalls The Leader In Quality And Innovation	32
Sutherland Farms Red Angus	34
OkMont Kiko Farms LLC	36
Diamond W Corrals introduces the portable sorting and gathering system by the original designer of the Wilson Wheel Corral	36

Departments

Publisher Information	6
Advertiser Index	30
Marketplace	38

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North Dakota Seed Potatoes

Willem Schrage, ND State Seed Department

The North Dakota certified seed potatoes acreage has remained stable as the second largest seed potato industry in the country at around 16,000 acres for the last few years.

ND is the largest producer of seed of the variety Norland with over 2850 acres of Red and Dark Red Norland. Of the 2500 acres of Red LaSoda in the country over 1550 acres are grown in ND. ND is the second largest producer in the country of varieties such as Shepody, Umatilla Russet and Ranger Russet. While it is the third largest producer of seed potatoes for chipping with over 3200 acres, it is the largest producer of Dakota Pearl with almost 1200 acres.

The rich ND soils are producing the most attractive red potatoes, but several kinds of russet potatoes are now grown to supply the demand for the processing industry. The fact that many acres are irrigated has created a reliable supply of processing potatoes.

Through the years ND certified seed potato producers have not changed their tolerances for viruses and have therefore

been able to maintain the low level for diseases that is necessary to produce good quality seed potatoes. In the west of the state in isolation from other potatoes greenhouse tubers are planted for one or at the most two generations in the field. Formerly the first generations were grown in the Beach area in Western ND, but now they are now grown more north, close to Grenora. Most of production is shipped as clean seed to seed potato producers in the rest of the state. In the



Field of dark Red Norland potatoes in the Red River Valley

Cando area of ND isolation is still available allowing producers to maintain low disease readings. After these generations seed lots move to the final seed areas, where they are multiplied further. Seed potato producers in several other states also have found a clean seed source in ND.

Maintaining low inoculum levels of Potato Virus Y (PVY) demands continuous attention of seed potato growers, because of the virus's ability to spread fast when inoculum is present. PVY is still mainly a seed potato growers' problem and has not been of great concern to commercial growers. This is a good indication that seed potato producers have done a good job in keeping the inoculum down. However, since the virus has developed new strains, of which some may produce tuber necrosis the virus may become of more interest to commercial potato growers in the future. ND seed potato producers are staying on the alert to maintain low inoculum levels in order to keep the reputation of ND seed potatoes up.

The ND seed potato directory is available at: www.ndseed.com (click on "Potato Directory") and at NDSSD, PO Box 5257, Fargo, ND, 58105, phone 701-231-5400.

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Considerations for growth and success with Canela Russet

By: Robert Davidson, CSU Extension Seed Potato Specialist

Canela Russet has been grown by SLV growers for the past few years, sometimes with great success, but often with problems related to its individual cultivar characteristics. **This cultivar has the potential for producing a high percentage of US No 1 tubers in a very tight size profile**, but overall yields may be less than other cultivars. Even though yields may be less (380 cwt/a +) Canela Russet has the potential for long term storage and has been very profitable for many growers when sold late season (early May to late June). This cultivar, however, has seen its share of problems in the last couple of years. This article will help to put some of these issues into perspective and, hopefully, provide some insight into understanding the cultivar so that each grower will have a greater chance for success.

Late storage to early season: Canela Russet is a cultivar which has a long dormancy (147 days average from the time of harvest to sprouting) which translates into a need to warm the tubers prior to planting (50-550F for two weeks) to assure proper germination. This is especially critical when deciding to cut the tubers to help promote growth of each eye. Cutting is problematic since the tubers are very smooth and have few eyes, with more eyes concentrated near the bud end of the tuber. It is very easy to cut the seed too small producing seed pieces with no more than one eye. This in turn produces a crop with a high percentage of single stems. During the early trials for this cultivar, the number of stems per plant was 1.9. This is quite low, so efforts must be made to increase the number of stems per plants from 1.9 to near 3.0. **This requires the use of slightly**

larger seed pieces (3.0 to 3.5 oz) and cutting no larger than splitters when available. Additionally, warming the seed prior to planting and avoiding fresh cutting the tubers can pay big dividends in terms of stem numbers. Growing season: Nitrogen management is critical during the season. **Total N rates should not exceed 140 to 160 units total for the season including residual from soil and N from irrigation**



water. These levels appear to be critical for proper growth during the season and also for the finishing of the vines during the late summer. We know that **excess N applied later in the season has a dramatic effect on the vine maturity and on tuber maturity coupled with skin set.** The past couple of years, late season environmental factors have delayed vine maturity on those fields with excess N present and made for very difficult tuber skin set conditions.

Harvest/Storage: It is crucial for this cultivar to have the appropriate length of time for good skin set, assuming that the vines are actually maturing and ready to go down. **Four weeks is not too long for skin set, so proper planning is essential in terms of N management and vine killing.** In the past two to three years many growers have experienced problems relating to Fusarium spp. and

tuber dry rot. **After much investigation, we believe that these problems are related to harvesting immature tubers which bruise more easily and provide wound areas for the pathogen to enter.** Additionally, very cool late season harvest temperatures set the tubers up for greater wounding and, thus, more potential for dry rot. While this cultivar is not resistant to dry rot, it is no more susceptible than many other common cultivars raised by growers in the San Luis Valley. There is one notable difference, however. It appears that Canela Russet takes slightly longer to heal than for example, Russet Norkotah, which can provide greater likelihood of Fusarium spp. becoming established in the tuber. Also, keeping early storage temperatures in the 500F range for longer than two to three weeks can have a very detrimental effect on the amount of dry rot seen in the crop, especially when dealing with immature tubers. Finally, growers should recognize that this cultivar will store for a very long period, but only if the crop has been properly managed during the season and the tubers are mature.

The use of Canela Russet as a long term storage alternative for producers can be very successful when following the appropriate management guidelines. Please keep in mind a few rules as you produce this cultivar. Larger seed, more eyes/seed piece, warming seed prior to planting, N management, proper vine maturity and vine kill with plenty of time for skin set, good harvest practices and proper early storage management. Following some of these practices can help you become more successful with this cultivar and increase both yields and profits.

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After harvest, samples are collected from all Montana seed fields and make the voyage to Hawaii where they are grown out in the winter post-harvest test. Approximately 40 days after planting, all seed lots are visually inspected and leaves are picked

from each plant and shipped back to Montana for virus testing. The pairing of virus testing with visual inspections results in a very accurate crop health status for buyers of Montana seed potatoes.

Every year, the Montana Potato Improvement Association hosts an annual Seed Potato Seminar. This year will mark the 76th gathering of Montana growers along with potato growers and industry representatives from throughout the US. The annual Montana Seed Potato Seminar will be held November 10-11, 2011 in Missoula Montana at the Hilton Garden Inn. Call the Montana Seed Potato Certification office at 406-994-3150 for more information.

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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

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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.)

Midwest Bio-Tech Grows to Reach Both Coasts

The bio-tech industry was still in its infancy when James Miller first heard about using enzymes to boost crop production in the late 1970's. Although there were solid field test results to show the products helped to boost crop yields in other parts of the US, Miller was skeptical because enzymes were largely unknown to Midwestern farmers at the time. However, the main benefits of enzymes are attractive --- the products are non-toxic and can generate higher crop yields and quality while potentially reducing expenditures on fertilizer, pesticides, and other crop inputs.

To evaluate the potential for enzymes in the Corn Belt, Miller set up a replicated corn plot on the family farm in Illinois and followed the test results for three years. According to Miller, the results were so impressive that he decided to start marketing the products to local farmers, and he and wife Carole later founded Midwest Bio-Tech, Inc. at Erie, Illinois. After more than 30 years in business, Midwest Bio-Tech has grown well beyond its original sales territory in the Midwest, and the company now does business with farmers from coast to coast.

Also, Midwest Bio-Tech entered a second generation on July 1, 2011, when Doug Miller joined his father in the family business. Although Doug was employed as a university researcher and

teacher for the past several years, he was involved in the business from the start and is familiar with the products and many of the long-term customers. He has also contributed to the company newsletter, website, and other parts of the marketing effort since 2000. James will continue to focus on product sales and customer development, while Doug will concentrate on advertising, electronic marketing, purchasing, and the other business operations.

Midwest Bio-Tech packages and distributes the complete line of Chandler Crop Products, including Biocat 1000, Soil, Seed Treat, and Foliar. During the fall harvest season, the key product is Biocat 1000, which is a liquid enzyme solution that is sprayed on post-harvest crop residue. The product stimulates the beneficial soil bacteria and other organisms that decay crop residue and helps to release nutrients for use by the next crop. Biocat 1000 also reduces the planting and tillage problems that may result from heavy crop residue, including Bt corn stalks. Chandler Soil is a liquid enzyme solution that is sprayed on the soil, and it is designed to stimulate the soil organisms that build soil structure and tilth. Chandler Soil may be applied in the fall with Biocat 1000 or liquid fertilizer, or spring treatments may be applied in a tank-mix with other chemicals or liquid fertilizers. Chandler Seed Treat is available in dry or liquid form and may be

applied to any type of crop seed or seedling at planting time. The seed treatment enhances the plant germination process and provides essential micronutrients to support early plant growth. Chandler Foliar is a post-emergence enzyme spray that is designed to further support plant growth and nutrient uptake through the end of the production season. All of the Chandler Crop Products are non-toxic when used as recommended.

The accompanying photo illustrates the typical benefits of Chandler Soil and Dry Seed Treat for wheat. Relative to the untreated plants (left), the treated wheat plants (right) tend to be taller and more robust, develop more tillers, and grow deeper root systems. As a result, the treated plants are able to take up more nutrients throughout the growing season, generate higher yields and test weight, and are less susceptible to pests, drought, and other sources of stress.

All of the Chandler Crop Products are offered at reduced prices during September and October during our Fall Discount Program. For more information about Midwest Bio-Tech and the Chandler Crop Products, please call 309-659-7773, send email to info@midwestbioman.com, or visit the company website at www.midwestbioman.com. The website provides product brochures and technical papers as well as the latest data on field test results, application rates, pricing, and shipping information.

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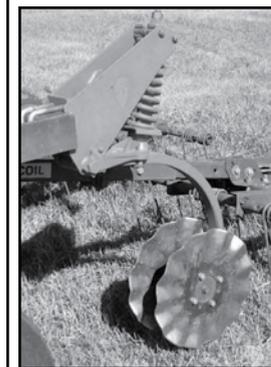
\$600 worth of Biomass/Corn or Flex-fuel each heating season, burning about 35 lbs of flex-fuel per day, compared to the average fossil fuel cost of about \$2,000. That's more than 60% savings on the average home heating bill. American Energy Systems has numerous models of product that qualify for the stimulus tax credit signed by President Obama which will give you an additional savings (up to \$500.00) off of the investment in a **MagnuM** or **Country Flame** High-efficiency clean burning product.

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Grazing Grass On Irrigated Farms

By: Don Hajar – Pawnee Buttes Seed Inc.

Agriculture is changing and today's landowners are looking for a different way to enjoy the land and still make a profit. Growing grass in the arid west under irrigation can be profitable if done correctly. The first step is to study how grass grows to understand what it requires to stay healthy. Doing your homework by reading, attending range management seminars, and visiting an actual irrigated grass operation can be very beneficial. Once you have done all this research you need to determine what you want this irrigated grass to do for your operation. An experienced range scientist, agronomist or individual educated in land, grass and cattle can help you plan this second step.

You need to select the field you want to convert to irrigated grass and decide if spring or fall planting would be best for your operation. Now it is time to prepare a seedbed. The seedbed should be firm and weed free. The grass seed should be planted with a grass drill designed to handle all grass seed types and able to control the depth the grass seed is planted. Grass seed should be planted 1/4" to 1/2" deep. Planting the grass seed deeper reduces emergence by 80%.

Planting a warm season cover crop in June will out compete weeds, firm up the seedbed and provide protection against soil erosion is a good investment. Harvest the cover crop in August, spray the regrowth with Roundup and drill the grass seed directly into the standing stubble.

Seed can also be planted March – May, or if planting in the fall it is the best to plant straight grass prior to October 1st. A grass/legume mix or straight legume should be planted at least 30 days prior to the average historical freeze date. Legumes are less tolerant of frost than grass, and any plant needs to have time to get big enough to survive the winter. You also want to ensure you have good soil moisture prior to winter.

The newly seeded grass needs water within the first seven days. If rain showers do not occur within 2-3 days after planting; begin irrigating.

Fertilizing to establish grass is not as important as it will be when the grass is more mature and you're expecting high forage production. Grass requires 150-200 lbs of nitrogen per acre per year applied in 2-6 applications. Phosphorus requirements range from 40-80 lbs/Ac/year. The best way to determine fertilizer requirements is to take a soil sample and ask the lab to make recommendations based on a desired yield of 5-7 tons of hay/acre.

Irrigated grass requires 3/4" to 1" of water per week for optimum to maximum production. The source of water can be precipitation or irrigation. Total annual requirements is 24-30"/year. Cool season grasses should be watered from March 1st to November 1st for maximum yield. Cool season grass under irrigation can produce more forage annually than warm season grass because the growing season for cool season grass is March 1st to November

1st as compared with May 15th to September 15th for warm season grass. Grass planted on irrigated ground should be watered adequately to recoup the benefits of irrigation. Grass watered less than adequately produces much less forage and may never pay for the investment.

A Grazing Management System accounts for 12 months of grazing with a cow-calf operation. If the operation is yearlings the operation needs to be flexible to allow for the peak periods of grass production, summer slump and increased weight of the stockers as time progresses. In other words, a stocking rate of 1500 lbs of beef per acre in April using three 500 lb yearlings may be correct but 60 days later assuming a rate of gain of 2 lbs/head/day would mean each animal is now weighing 620 and the stocking rate is now 620 lbs/animal x 3 head or 1860 lbs/acre.

The pasture is now overstocked and as day length increases and daytime temperatures increase the grass will produce less forage and the stocking rate should be reduced from 1500 lbs of beef/acre to as low as 1100 lbs of beef/acre depending how hot it is, amount of irrigation applied and amount of fertilizer and usage. The more a pasture is abused the less forage it produces.

The key elements of a grazing plan are proper stocking rate, having at least 6 paddocks, six or less days of grazing per paddock and 25 – 35 days of rest between grazing periods. For example, eight paddocks grazed 4 days each would take 32 days to graze all paddocks and each paddock would receive 28 days of rest. The grass should not be grazed less than 4". Reserve is very important to the plant.

With all of these elements in place, grazing on irrigated grass has much more of a chance of being successful and profitable.

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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 future problems.

The important thing for us 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 tempera-

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ture 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, due to the limited knowl-

edge these observations will bring.

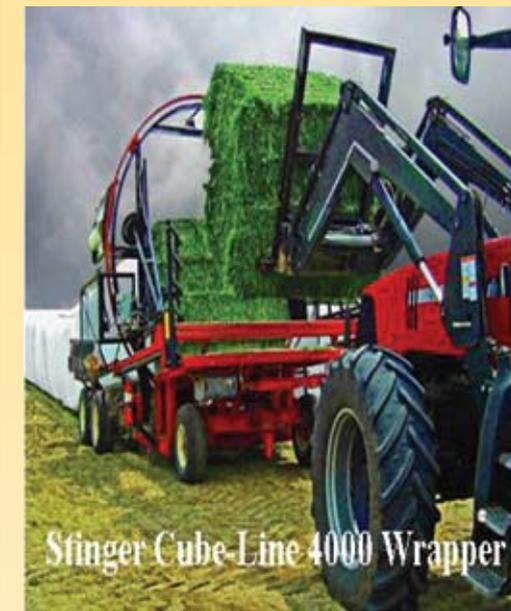
2) The **"Thermometer Method"** is another way to read temperatures. With this method, pipes are inserted into the grain mass and a thermometer lowered into them. After a time, the thermometer is raised and the temperature read for that point. This method also has several serious drawbacks. 1) It is very time consuming. (A thermometer is not designed to furnish quick readings). 2) It must also pass through grain temperatures which are above or below that which is to be measured. 3) 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. 4) 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 leaves much to be desired in all phases of accuracy, dependability and speed of obtaining temperatures.

3) A third concept is the **thermocouple cable method.** A thermocouple is nothing more than two dissimilar metals soldered together to make a heat sensing point. TSGC, Inc 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.

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We will repeat again 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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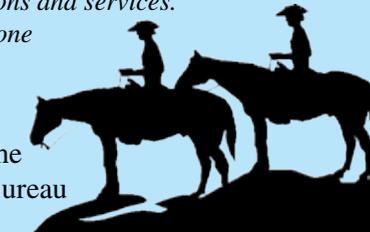
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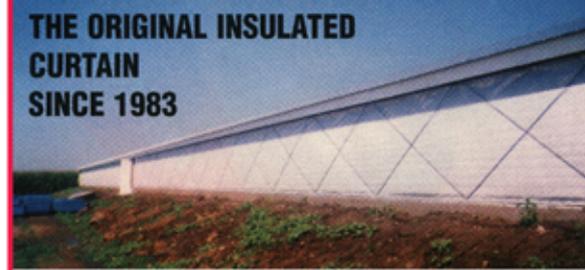
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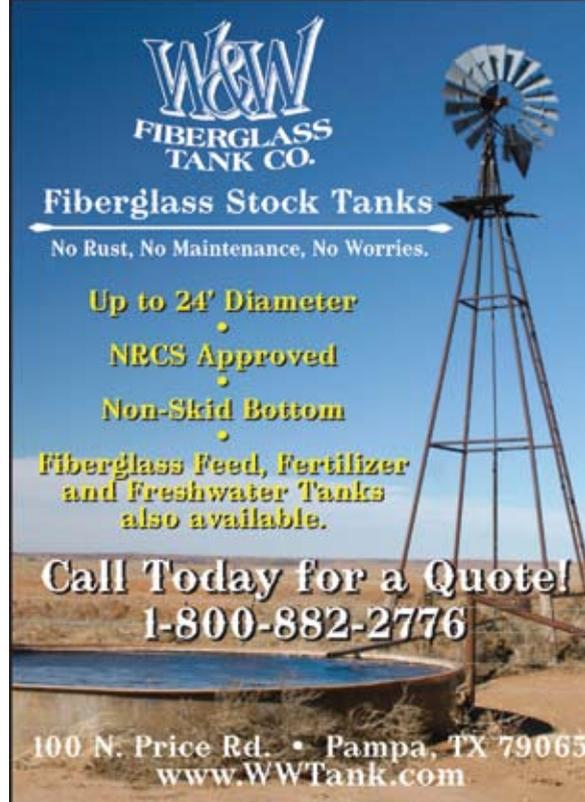
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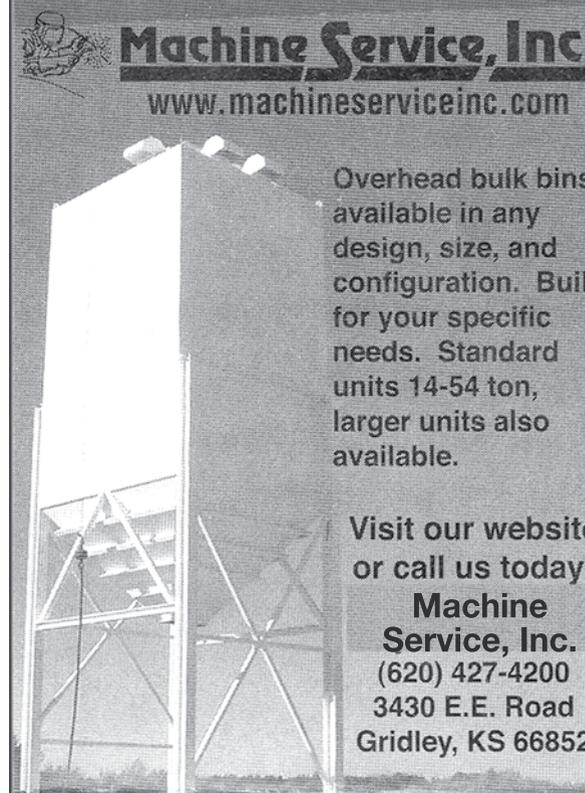
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Our LS 200 is 20 ft long, 500cu.ft. brute set on large flotation tires, 20 ton walking tandems, and optional brakes. As with all our trailers, it is mounted on a height adjustable rubber mounted hitch with swivel clevis. This unit has a full sub-frame solid welded – no uni-body here. This is another Horstline product that will last for many many years. 🛠️

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The 3000 psi PDH position cylinder is available in 2.5 to 5 inch bore. All sensor components (except electrical connector) are imbedded internally within the cylinder for superior durability and long field life. The internal electronic feedback senses cylinder rod position and provides out-

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 🛠️



Hall Manufacturing Bush-Whacker Mowers

Hall Manufacturing is excited to introduce 0% interest for 36 months on most of our 2011 product line. Bush-Whacker mowers are increasing in demand for agricultural, commercial and other applications where a heavy-duty, rugged mower is needed. We pride ourselves by leading the way with innovative design, superior performance and proven durability. We understand that today's economic times are not the best and we don't want that to stop you from getting the job done.

We hope that our great 0% interest for 36 months will give you enough flexibility to get you the best tools so you can finish the job.

For years our dealers and consumers have requested Bush-Whacker medium-duty cutters and now they are available. Designed with the same innovation as the heavy-duty Elite Series, but a better fit for clipping pastures, cutting grass and stocks to control insects and cutting brush up to 2" in diameter. Priced where the most price conscious consumer will

be excited.

Hall Manufacturing has been in the business of fabricating steel products for over 75 years. During that time our engineers, and love for barbecue, have come up with a barbecue pit smoker that is sure to win over your toughest judge. The Smokin' Bob is made of 5/16" rolled plate steel for the body & firebox. The cooking chamber is 60"x 30" and has over 10.7 square feet of cooking surface. The big question will be, with a trailer or without. 🛠️

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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 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 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

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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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Cat 6 cyl, eng brake, 10 spd, Hendrickson WB, 12K FA, 40K RA, 234" WB, 21" bed, 114K miles.....\$19,800

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Pete 357 Quad/Axles
- Cum M11, 350 hp, 9LL trans, A/C, Hendrickson WB, 261" WB, heavy 3/8" frame, 20K FA, 46K RA, 61K-259K miles....(4) 1998....\$28,900 ea; (4) 1997....\$27,900 ea

2000 IHC 4900 T/A - DT530 6 cyl dsl, 300 hp, Allison MD-3560 6 spd, A/C, A/B, double steel frame, Hendrickson WB, 238" WB, 16K FA, 40K RA, 256K miles.....\$29,900

(2) 1998 Freightliner FLD12064SD Tri/A - Cum M11, 305 hp, M9LL trans, Chalmers susp, 20K FA, 40K RA, 260" WB, air lift 3rd axle, 224-255K miles.....\$28,500 ea
1997 Pete 357 T/A - Cum C8.3, 300 hp, 9 spd, Chalmers susp, 20K FA, 40K RA, 248" WB, alum wheels.....\$24,500

1993 Ford LT9000 T/A w/MTM 11 CU Mixer - Cum L10, 300 hp, 7LL trans, diff lock, Hendrickson WB, 248" WB, booster axle, 201K miles.....\$13,500

1991 Ford LTA9000 T/A - Cat 3406B, 350 hp, eng brake, 9 spd, Hendrickson WB, 40K RA, 192" WB, double frame, 64K miles.....\$12,600

1993 KW T800B T/A - Cat 3406C, 9 spd, jake, AG100 8-bag susp, 230" WB, 12K FA, 38K RA, 5/16" frame, alum wheels, new oil cooler, reman head, radiator, diffs & dbl lockers, 150K miles.....\$16,500

1996 Pete 357 6x4 - Cum C8.3, 300 hp, 9LL trans, Hendrickson WB, 20K FA, 40K RA, 250" WB, 247K miles.....\$23,500

1995 Pete 357 6x4 - Cum C8.3, 300 hp, 8LL trans, Hendrickson WB, 20K FA, 40K RA, 250" WB, 296K miles.....\$23,500

Tee-Post Driver System

by Bucketdriver.com

What took hard work and an all-day placing 60 tee-posts into hard ground by hand can now be accomplished in one easy hour with the Bucketdriver.com Tee-Post Driver System.

This amazing system is so effective and easy to use that after buying it from Bucketdriver.com you'll find yourself wanting to hide it from your neighbors.

It's that good. If not, Bucketdriver will buy it back from you.

Mountings

Bucketdriver.com offers two styles of clamps to attach their drivers to your tractor bucket. One sells for \$19 and the other sells for \$25.

Workings

Driver-IV and Driver-V both have an all-directional swivel for fast indepen-

dent post alignment. Load your bucket up with t-posts. Grab the first post to be driven and load it into the Driver Barrel by throwing the post up into the barrel past the auto-latch and move forward into position. After the bucket operator locks the tires, their Drivers will maintain each post level before pressing down and with just a little help by tilting your bucket transfer all energy

down into each post. Then you just tilt the bucket slightly as you're pressing down to maintain a level post.

After driving the post in and before raising the bucket, reach into the bucket and grab the next post. Then raise the Driver and bucket, leaving the post in place. Reload by throwing the next post into the Driver barrel past the auto-latch. Then move forward to the next slot and press.

The Tee-Post Driver System by Bucketdriver.com has received great reviews for their expertise in piecing back old fencerows and building snow-fence and beach-fence.



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Manchester Manufacturing Company has been engineering grain harvesting innovations since 1919. Force Feed Feeder Chains, Hillside Raddles, Plastic Inserts, and Weed Wipers are available. We can help your grain feeding problem. Available for ALL combines. If your combine won't feed at the auger, especially in short, weedy or tangled crops, it's because it isn't feeding at the cylinder. We solved the problem by designing a slat with a flap on it. Each slat on our Force

Feed Feeder Chain works like a beater to feed material into the cylinder. Our Hillside Raddle holds grain while harvesting on a hillside. The Hillside Raddle has patented lugs attached to the steel slats. These lugs prevent grain from sliding to the downhill side of the raddle pan before it reaches the chaffer, thus preventing overloading of the lower side of the chaffer sieve and cleaning shoe. We also offer replacement slats for the wooden slat raddles on all Gleaner combines built before 1971. The Plastic Inserts convert

the Force Feed Feeder Chain to an all-purpose chain to harvest all crops. They are ideal for grain stripping headers, handling only the grain and not the stalk and straw. They prevent wear on the feeder house floor, splitting, cracking, crushing of grain. The Manchester Weed Wiper is the perfect solution for eliminating nuisance weeds from your crops. It works excellent on rye, weeds, Johnson grass, or any growth above your crop to be harvested. Available in self-propelled units or a front mount boom system.



Pricing

Driver-IV, designed for new posts and used (tops of used posts have been flattened or smeared over), is priced at just \$65.95. Driver-V, the top of the line, is priced at just \$119.95 and is designed to gun and run with new posts. Two people can easily press a post every minute. With their Tee-Post Driver System, any time is a good time to plant t-posts. Let them take that pain away.

Contact Information

You can view the video of these wholesale priced, American-made Drivers at Google>bucketdriver2010 and, of course, at their website at www.bucketdriver.com. See for yourself how and why they work so well. Their contact phone number for customer service and questions is (580) 747-9288. The Tee-Post Driver Systems are made at 1618 Indian Dr., Enid, OK 73703. ©

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Scorpion Truck Bed Linings

Scorpion Truck Bed Linings (www.ScorpionLinings.com) is proud to announce in 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 and franchise fees to its dealers, feeling that they know how to better spend their money

that 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.

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APPLICATIONS

Phase-A-Matic, Inc. Rotary Phase Converters provides the power necessary to run all load types - including CNC/PLC, transmitters, lasers, welders, battery chargers, heating elements, etc. Whatever the load type - motor, resistive, induction, or transformer load - our Rotary Converter will power it. Phase-A-Matic, Inc. provides phase conversion solutions

for the farmer in agricultural use, including for water distribution, dairy farming, miking, augers, grain dryers, conveyers, cooling towers, and also for the wine



production industry to run crusher-stemmers, wine presses, bottle corks, irrigation pumps, etc. The Rotary Converter is designed to operate as modules with the ability to be connected in parallel to produce any required output, no matter

how large. With fuel prices skyrocketing, diesel generators are now being replaced by Phase-A-Matic, Inc. Rotary Phase Converters. Bring your request to us and we will supply the right conversion for your application.

RELIABILITY – MTBF (Mean Time Between Failure)

Failure rate (MTBF) is so low it's almost impossible to determine. We find that within the first 12 months approximately 1 in 150 might have a problem, and usually within a few weeks or months. After the first 12 months, it might be one or less in 10,000 over a 30-year period. We continue to hear of our Rotary Converters that have been in service for 25 or 30 years or more, and which are still working flawlessly. It could go on to do another 25 or 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.

TRANSFORMERS

Phase-A-Matic, Inc. also has available all sizes of transformers: single-phase and three-phase 50/60 Hz, all voltages, step-up and step-down, including custom made for special applications.

ABOUT US

Product lines began IN 1965 with the well-known **STATIC CONVERTER**, the workhorse for tens of thousands of regular shop machines, such as mills, lathes, etc. **The ROTARY CONVERTER FULL POWER** line is a true phase converter jointly developed with Baldor Electric and built to our stringent specifications for high performance and proven long-term dependability. It is the quietest rotary converter on the market, and the best quality available anywhere. It meets your concerns in delivering the critical uptime and reliability your operation requires.

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Professional, available technical support for proper sizing and installation, consistent product reliability and immediate delivery from stock for most items are core components of the strength of the company and its esteemed reputation. Our converters are used by the military branches of the United States Department of Defense, and also are used in colleges and universities throughout the United States in the teaching of phase converter technology.

Phase-A-Matic, Inc. phase converters range from 1/3 to 500 HP or more. We have the right converter to meet your needs in delivering economical, reliable and true 3-phase power of the highest quality, thus providing the dependability and uptime you must have. Phase-A-Matic, Inc. 800-962-6976, www.phase-a-matic.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 as a dual sash baffle. The top of the tank is designed



Spray 30 feet wide with no boom

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 25 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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Delta-Tooth Harrow

The Shape Of The Future

Invented in 1988 by a Colorado rancher, the Delta-Tooth Harrow brings new life to an old implement. Totally redesigned to eliminate the problems inherent in other flexible harrows, the Delta-Tooth consists of a series of cast triangles and connectors bolted together in a pattern. This unique design allows for very tight tine spacing, more weight per foot, and superior longevity, creating the most versatile

harrow ever built. A quick comparison between the Delta-Tooth harrow and others:

Will it tangle? No, regardless of how roughly it has been used or how old it is, it will never tangle. Is it easy to repair? Yes, if needed the harrow can be repaired right in the field with two small wrenches. Does it self clean? Yes, because it is heavier and travels with a shaking motion, trash will accumulate to a certain

point then the harrow will roll it out. Can it be pulled at high speeds? Yes, speeds up to 15mph are common.

Distributed by Hi-Valley Manufacturing in Kremmling Colorado, the Delta-Tooth Harrow is custom assembled to each customer's exact need. We offer three bolt patterns, and custom widths to fit every budget. For more information please contact Dave or Chris Sammons 970-724-9488.



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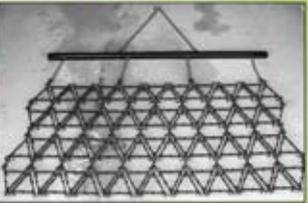
ADVERTISER	WEBSITE	PAGE	ADVERTISER	WEBSITE	PAGE
2-D Cowboy Vet Products LLC		38	Max Jantz Excavating Inc		18
A L Doering Spark Plug Corp	www.aldor-sparkplugs.com	38	Maz-Zee S.A. International		9
Advanced Farm Equipment, LLC	www.lenco-harvesters.com	9	Midwest Bio-Tech, Inc.	www.midwestbioman.com	2
Aeroswint	www.aeroswint.net	23	Mission Valley Power	www.missionvalleypower.org	17
Alfalfa Pellets, LLC		38	Multi Min USA, Inc	www.multimininglobal.com	33
American Agra Curtains Inc,	www.americanagracurtains.com	21	Newman Assoc.		38
American Wholesale Co	www.awrco.com	15	Noland Feed Inc.	www.purinamills.com	34
Art's Way Manufacturing Co Inc	www.artsway-mfg.com	5	North Dakota Certified Seed Potatoes	www.ndseed.com	11
Bakko Industires, Inc.	www.thejugwaterer.com	39	NorthWestern Energy	www.northwesternenergy.com	8
Bettermilk - Jenlis Inc		37	Oasis Montana, Inc	www.oasismontana.com	15
Bio Till	www.saddlebutte.com/covercrops.aspx	17	Okmont Kiko Farms LLC	www.okmontfarms.com	37
Boyd Ag	www.boydag.com	14	Pawnee Buttes Seed Inc.	www.pawneebuttesseed.com	14
Bucket Driver	www.bucketdriver.com	27	Phase-A-Matic	www.phase-a-matic.com	29
Burlington Welding LLC	www.diamondwcorrals.com	36	PolyExcel, LLC	www.polyexcel.com	4
Calmer Corn Heads	www.calmercornheads.com	17	Pre-Owned Parts, Inc	www.pre-ownedparts.com	39
C & R Supply	www.crsupply.com	29	Ron's Manufacturing	www.ronsmfg.com	13
Central Farmers Cooperative	www.purinamills.com	34	S & S Wood Products, Inc		37
Colfax Tractor Parts Inc	www.colfaxtractorparts.com	39	Scorpion Protective Coating	www.scorpioncoatings.com	27
Colorado Certified Seed Potatoes	www.coloradopotato.org/seed	11	Scott Ertl Products LLC	www.ertilizer.com	39
Colorful Manes & Tails	www.colorfulmanesandtails.com	39	Sea Minerals FA	www.seamineralsfa.com	21
Cross Manufacturing Inc.	www.crossmfg.com	23	Simonsen Industrial Inc	www.simonsen-industries.com	31
Dakota Gasification Co	www.dakotagas.com	18	Sims Cab Depot	www.cabdepot.com	23
Dakota Grills	www.dakotagrills.com	13	Sioux Nation	www.purinamills.com	34
Davey - Joans		19	Skinner Harvesting LLC	www.skinnerharvesting.com	38
Delta Implement Co Inc	www.deltaimplementco.com	39	South Dakota State University	www.sdstate.edu/abs/	19
Eagle Butte Co-Op	eaglebuttecoop.net	34	Sperry Union Store, Inc.	www.sperryunionstore.com	34
Edmonton Potato Growers LTD	www.epg.ab.ca	11	Spokane Ag Expo	www.agshow.org	5
EFS Distributing	www.efsdistributing.com	39	Spruce Mountain Ranch	www.sprucemountainranch.com	35
Emerson Manufacturing Corporation	www.emersonjacks.com	25	Steve's Welding & Repair		7
Farm Eyes Surveillance	www.farmeyes.net	29	Stinger Inc.	www.stingeritd.com	19
Fibers 4 Ewe LLC	www.fibers4ewe.net	39	Sutherlin Farms Red Angus	www.sutherlinfarms.com	35
Fleet Supply Inc	www.purinamills.com	34	Tire Town Inc	www.tiretown.com	38
Gnuse Mfg Co	www.gnusemfg.com	20	Tjernagel Family Livestock LLP		39
Graham Equipment	www.grahamelectricplanter.com	4	Track Works	www.trackworks1.com	25
H & M Gopher Control	www.handmgophercontrol.com	25	TSGC Inc	www.tsgcinc.com	16
Hall Manufacturing	www.bush-whacker.com	2	Turner Inc	www.dairystalls.com	33
Hampton Truck & Equipment Sales	www.hamptontrucksales.com	24	Two Guys Communications Inc.	www.twoguysscomm.com	20
Herrs Machine	www.herrsmachine.com	31	United Power	www.unitedpower.com	38
Hi-Valley Manufacturing	www.deltaharrow.com	31	VP Buildings	www.vp.com/ad/WFR01211	16
Joe Priest Real Estate	www.joepriestre.com	39	W&W Fiberglass Tank Co.	www.wwtank.com	21
L & M Industries		31	Walder Manufacturing	www.waldermfg.com	38
L & S Farm Supply		23	Walinga USA, Inc.	www.walinga.com	40
Lakeshore Equipment	www.lakeshoreequipmentsales.com	39	Wall Mountain Co Inc.	www.weldingvideos.com	38
Lime City Equipment, Inc.	www.limecityequipment.com	3	Wenz Service Inc.	www.ihdisgusted.com	38
Machine Service Inc	www.machineserviceinc.com	21	Whitewater Welding	www.horstline.com	5
Magnum Heat	www.magnumheat.com	13	Wind River Seed	www.windriverseed.com	7
Manchester Manufacturing Co	www.manchestermfg.com	27			

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Infectious Bovine Rhinotracheitis (IBR) is caused by Bovine Herpes Virus-1 (BHV-1). It is highly infectious and can cause significant economic losses on dairy farms. The BHV-1 virus can go inside the cells and such latently infected bovines will shed BHV-1 from time to time after stressful situations during their lifetime. Animals that have become exposed to the virus thus become carriers of the disease and as such pose a threat to the herd. Stressful situations (like calving, high milk production, a negative energy balance, heat stress) can result in reactivation of latent infections in carrier animals that infect other animals in the herd. The cycle of infection is maintained mostly through direct animal to animal contact because nasal discharges from infected animals contain large amounts of virus.

An initial outbreak of IBR is generally characterized by a sudden milk drop and high fever, nasal discharge, an inflamed, crusty nose ("Red Nose Disease") and sore and cloudy eyes (conjunctivitis). Severe pneumonia due to secondary bacterial infections are often diagnosed and abortions in the second half of pregnancy with an increase in calf pneumonia are seen.

Secondary outbreaks are not as severe and can be identified by occasional abortions in the second half of pregnancy and an increase in numbers of calves with symptoms of pneumonia.

Following diagnostic testing of the dairy herd by a veterinarian, a vaccination protocol should be put in place in the herd health management program to protect esp. the newly bought cattle as well as the replacement cattle.

Diagnostic testing will include blood and bulk milk tank testing of levels of neutralizing antibodies against the IBR virus. These antibodies are formed as part of actively acquired humoral immunity in the body due to administration of vaccine or exposure to disease-causing pathogens and they will assist in the prevention of the clinical disease following a subsequent challenge of the virus or these antibodies can at least help to limit disease progression.

Trace minerals play an important role in optimal immune function in livestock in esp. high stressed animals like high milk producers.

A recent study report by the University of Florida on the concurrent use of the injectable trace mineral supplement, Multimin, and a modified live virus vaccine revealed very useful data for cattle

producers. The study showed that vaccination causes a decrease in the trace mineral status of the vaccinated animals. This may be due to different trace minerals playing an active role in different pathways of the acquired immune response. This may potentially impact reproduction if these animals are bred following vaccination. The study also indicated that injecting Multimin, along with MLV vaccines can help manage this decrease in trace mineral status.

The report by the University of Florida also indicated that concurrent administration of Multimin and MLV vaccine increased the production of neutralizing antibodies against IBR virus significantly and that this statistically significant increase in IBR antibodies was present as early as 14 days after vaccination and the Multimin administration.

Management systems like injecting Multimin90 4 weeks before calving and again 4 weeks before AI in dairies focused on improving the trace mineral status of cattle, thus have the potential for decreasing disease and improving reproduction and production performance.

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- The study showed that vaccination causes a decrease in Trace Mineral status. This may potentially impact reproduction if animals are bred following vaccination.
- Injecting **MULTIMIN**, along with MLV vaccines, can help manage the decrease in Trace Mineral status.
- Trial data showed that concurrent administration of **MULTIMIN** and MLV vaccine increased the production of neutralizing antibodies against IBR virus significantly.
- The statistically significant increase in IBR antibodies was present as early as 14 days after vaccination and **MULTIMIN** administration.

Data listed above is based on a study report by University of Florida.

For the complete trial data please visit our

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Sutherland Farms Red Angus

Sutherland Farms is nestled in the center of the beautiful Bitterroot Valley, located south of Missoula, Montana. Bob's love for ranching and farming began while he was still in high school when he received a youth loan from the state of Montana. He started buying cows and renting pasture. We bought our present ranch after leasing it for about 10 years. We still lease most of the land that we farm, and also a lot of pasture.

Sutherland Farms is operated primarily by Bob, Laurie and their son Chad. Chad is the oldest of two boys. Chad has spent his life farming and ranching with his parents. Chad is Bob's right hand man and helps with day to day decisions at Sutherland Farms. He also has his own herd of Red and Black Angus cows. Our other son, Cody, grew up loving rodeo, he is quite the horseman and a great hand to have around the ranch. Cody went on to college and graduated from Montana Tech, in Butte, MT, with honors and received a bachelor's degree in Mining Engineering. He still has horses

and cattle on the ranch and comes home whenever possible to help out.

Initially, we raised commercial cattle. In 1990 we changed to Registered Red Angus Cattle. The mother cows are the heart of the Sutherland herd. Currently, we have



200 Commercial cows and 400 Registered cows. Each year we evaluate the mother cows for udder and feet quality. The mother cows are the factory of the operation. We want the bulls and heifers we sell to be high quality, have longevity and to be very functional, productive cattle.

For fifteen years the bulls were marketed by private treaty but now the first Friday in March is very important and busy day for the crew at Sutherland Farms. We

have a sale facility we built here at the ranch. The next bull sale falls on Friday, March 2, 2012.

Sutherland Farms Red Angus sells roughly 100 yearling Red Angus Bulls each year. We feed and grow the bulls in our own bull development feedlot on a corn silage, and protein supplement. This ration is designed for a 3 lb/day gain. Each bull will be hand selected based on the following traits: soundness, structure, performance, physical evaluation as well as calving-ease, growth and total maternal EPD's. All bulls are guaranteed to pass a breeding soundness exam. We take a lot of pride in the group of bulls we offer each spring. It is only the top 50% of the bull calves that are sold in the sale.

Each year through the selection of great genetics and vigorous culling process we hope to improve the group of bulls we offer for sale as well as increase the quality of the replacement females. For more information about our operation, check out our website: www.sutherlandfarms.com

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OkMont Kiko Farms LLC. is a wonderful Goat operation run by the Southard family with, "Goats of Many Colors" nestled in Central Oklahoma, Noble, Oklahoma to be exact. We raise Registered Purbred Kiko Goats and have a commercial herd of Kiko / Boer crosses. Started in May of 2011 we have grown from 5 Pured Bred Kiko goats to over 30 goats including the Kiko Boer crosses. We have, at the moment 5 Purbred Kiko Bucklings for sale with Iron Horse and Goldmine Bloodlines with more expected in March or April. We have 2 herd

sires one is 100% New Zealand Kiko and the other is Pure Bred Kiko. We like the Kikos for their parasite resistance and the crosses they produce are hearty healthy goats that grow fast and reach commercial weight quickly. On our website www.okmontfarms.com you can view the "Kiko Advantage" presentation. Our goats are raised on forage and are supplemented with free choice minerals. We invite you to view our website at www.okmontfarms.com or call for more information or even just to talk goats at 405-255-1250. Thank you and Be Blessed Spain Southard. 🐐



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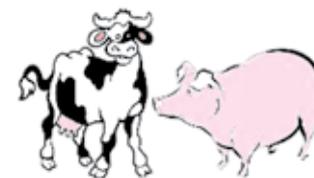
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