

Western Farm, Ranch & Dairy Magazine

The vital resource of the Ag Industry

Rocky Mountain/Heartland • fall/winter edition 2011

Colorado / Iowa / Kansas / Missouri / Montana / Nebraska / North Dakota / South Dakota / Wisconsin / Wyoming

The Importance of Grain Temperature Detection

An Ounce of Prevention: Fecal Parasite Testing

Special Potato Issue!

www.FarmRanchDairy.com



WALINGA®

Walinga offers a complete line of grain handling equipment to suit your every need. Products range from; Agri-Vacs to Push Systems to Grain Cleaners. Capacities ranging from 500 bu/hr to over 7000 bu/hr.

Call: 1-800-466-1197
To Find Your Nearest Dealer

www.walinga.com



FOR THE FARMER WHO WANTS QUALITY SAVES YOU MONEY!!!



**Vertical Beater Design Equals Wider, More Even Spread Pattern
Fewer Trips than Conventional Spreaders to the Same Field**



VB560 TWIN TWISTER

- Twin 34-5/8" Diameter Vertical Beaters with 15MM thick Spiral Flighting
- All Poly Box • Tires - 1600-R-20 - 10"x20" Rim
- Standard - Twin 67P11 Apron Chain
- Tractor Horse Power - 150 • Highway Light Kit Installed

OPTIONS: Scale Kit

- Flotation tires - 16 Ply
- 667 XH Pintle Apron Chain



**VB440
TWIN TWISTER**

- Twin 34-5/8" Diameter Vertical Beaters with 10MM thick Spiral Flighting
- All Poly Box
- 35R Series 540 RPM CV Torque Disconnect PTO
- Heavy Duty Hubs & Spindles - 10 Bolt 15,000 Lbs. with 3-3/8" Spindles
- Tires - 1600-R-20 - 10"x20" Rim
- Standard - Twin 67P11 Apron Chain
- Standard - Highway Light Kit Installed • Tractor Horse Power - 135

OPTIONS: Scale Kit

- Flotation tires 600/55x26.5 16 Ply
- 667 XH Pintle Apron Chain
- 1000 RPM CV Torque Disconnect P.T.O.



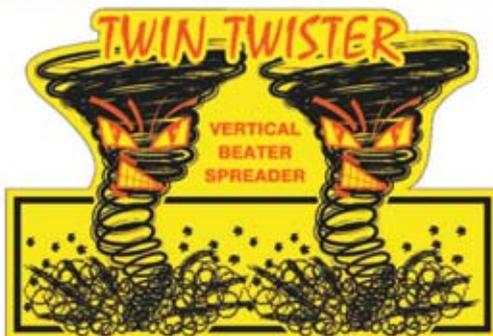
VB750 TWIN TWISTER

- Twin 39" Dia. Vertical Beaters w/15mm thick Spiral Flighting
- All Poly Box • 35R Series 1000 RPM CV PTO
- HD Hubs & Spindles-10 Bolt 15K Lbs. w/3-3/8" Spindles
- Tires - 1600-R-20 - 10"x20" Rim
- Standard - Twin 67P11 Apron Chain
- Tractor Horse Power - 175 • Highway Light Kit Installed

OPTIONS: Scale Kit

- Flotation tires - 600/55x26.5 16 Ply
- 667 XH Pintle Apron Chain

**LESS SOIL COMPACTION
LESS FUEL CONSUMPTION
LESS TIME AND LABOR**



*Manufactured
in Dorchester,
Wisconsin by:*



Phone 715.654.5200 Fax 715.654.5558
www.emcspreaders.com

contents



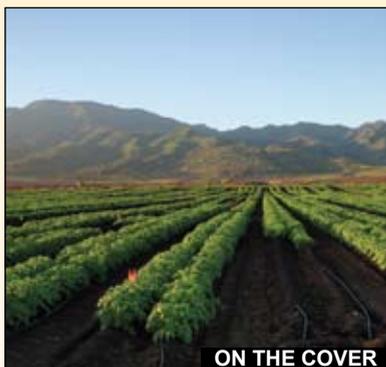
PAGE 9



PAGE 15



PAGE 23



ON THE COVER

Cover photo, courtesy of Montana Seed Potato Certification Program, is of Montana's seed potato postharvest test on Oahu, HI in Jan 2010.

Have an article or photo submission? Give us a call at 1-800-330-3482 or e-mail: info@ritzfamilypublishing.com for image and file requirements. (All submissions subject to approval)

Western Farm, Ranch & Dairy Magazine

Rocky Mountain/Heartland • fall/winter edition 2011

Agriculture

Zapata Seed Company	6
Considerations for growth and success with Canela Russet	6
North Dakota Seed Potatoes	8
H&H Farms	8
Montana Seed Potato Certification Program	10
A. Link, Inc.	
A short Profile of our Company	12
Grazing Grass On Irrigated Farms	13
Ron's Manufacturing	
Vertical Tillage Coulter Kit Attachment Gets Even Stronger	14
Fertilize-Big Yields AND Low Cost	14
Hydroscreen Taking the Trash Out Just for You!	14
Mike's Windmill Shop, LLC	16
Scimetrix Offers Superior Pest Management Products	17
How hard is it to make hand-crafted beer and wine at home?	18
AgriCharts' Website Hosting Platform	
Enhances Clients' Growing Businesses	19

Equipment

New Horizon Corporation	
Earth-Friendly Way to Heat	20
Pressurized Exhaust Kills Burrowing Rodents	21
Phase-A-Matic - 3 Phase Power Anywhere!	22
KLEENair Vacuum Grain Screener	24
Meyer's Equipment Mfg. Corp.	24
Reman Balestacker – The Faremer's Time Machine	26
Dyna Flo, Inc. announces the Dyna Flo Pump	26
The Importance Of Grain Temperature Detection	28

Livestock

Livestock Steel	30
Pearson's Continues Keeping Pace With	
Livestock Industry's Demands In 2011	30
Tom Balding Bits & Spurs	32
National Alpaca Farm Days Celebrated Nationwide	34

Departments

Publisher Information	5
Advertiser Index	35
Marketplace	36

Western Farm, Ranch & Dairy Magazine

a Ritz Family Publication

President / CEO

Michael Ritz
mikeritz@ritzfamilypublishing.com

Executive V.P. Operations

Robert Davis
rdavis@ritzfamilypublishing.com

General Sales Manager

Pat Drury
pat@ritzfamilypublishing.com

Asst. Sales Manager

David Larsen
david@ritzfamilypublishing.com

Office Manager

Angie Hawkins
angie@ritzfamilypublishing.com

Web Tech

Valerie Ritz
valerie@ritzfamilypublishing.com

Secretary

Kristina Ness
kristina@ritzfamilypublishing.com

Ritz Family Publishing, Inc.

www.ritzfamilypublishing.com

Corporate Office

Ritz Family Publishing, Inc.
714 N Main Street
Meridian, ID 83642

Sales

For all sales inquiries, call toll free
1(800) 330-3482 or 1(208) 955-0124
sales@ritzfamilypublishing.com

Subscriptions

For a subscription or to change your existing address,
call toll free 1(800) 330-3482 or 1(208) 955-0124
info@ritzfamilypublishing.com

Printed By Snake River Printing, Nampa, ID

Copyright© 2011. All rights reserved.

Every effort has been made to ensure accuracy of this publication, however, the publisher does not assume responsibility for omissions or typographical errors.

The publisher does not assume responsibility or is liable for the contents of any advertising herein. Publisher's liability for errors in an advertisement is limited to a correct insertion in the next publication. In the event of a misprint, the publisher must be informed of such error prior to printing of the next publication.

Steve's Welding & Repair

Stickney, SD • 605-732-4615

steveswelding@midstatesd.net

Continuous Panels - Call for prices
20 ft sections - all clips and splices included



Come in and view our expanding selection of bearings, sprockets, chain, bushing, etc.



Think of us for all your repair needs during harvest season and all year long.



Art's Way

Since 1956



PO Box 288 Armstrong, IA 50514

Phone: 712-864-3131

Fax: 712-864-3154

www.artsway-mfg.com

Art's-Way Manufacturing Co., Inc.

Zapata Seed Company

Zapata Seed Company, located in southern Colorado in the San Luis Valley, is owned and operated by Brian and Deborah Brownell. This certified seed farm proudly raises potatoes from plantlets in the greenhouse to fourth generation tubers. We are committed not only to producing clean, healthy seed but to reducing our water usage and protecting our fragile soils.

Three generations of Brownell's have been planting trees and winter rye to prevent erosion. We currently use two to three tons of compost yearly on potato ground. During pre-plant and throughout the season, our com-

post tea brewers are utilized to add bacteriological diversity to the fields.



Brian, Elaina, Bridget, Anna, Patrick and Deborah Brownell (holding her grandson Ezra)

Alternating with cover crops such as hot mustard, clover, radish and Su-

dan grass rather than growing small grains, has helped to bring fertilizer back to the surface and add nutrients to the soil while further reducing water usage.

By limiting fertilizer and using crop consultants on a weekly basis to monitor insect populations and detect disease we try to give our crops the best environment possible to thrive in. We also have a seasoned roguing crew with many years of experience in the certified seed business.

At Zapata Seed we are working to conserve this environment that we depend on to raise future generations of both potatoes and farmers. 

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.



NORKOTAH LINES
(CO 3, CO 8) (TX 112, 278, 296)

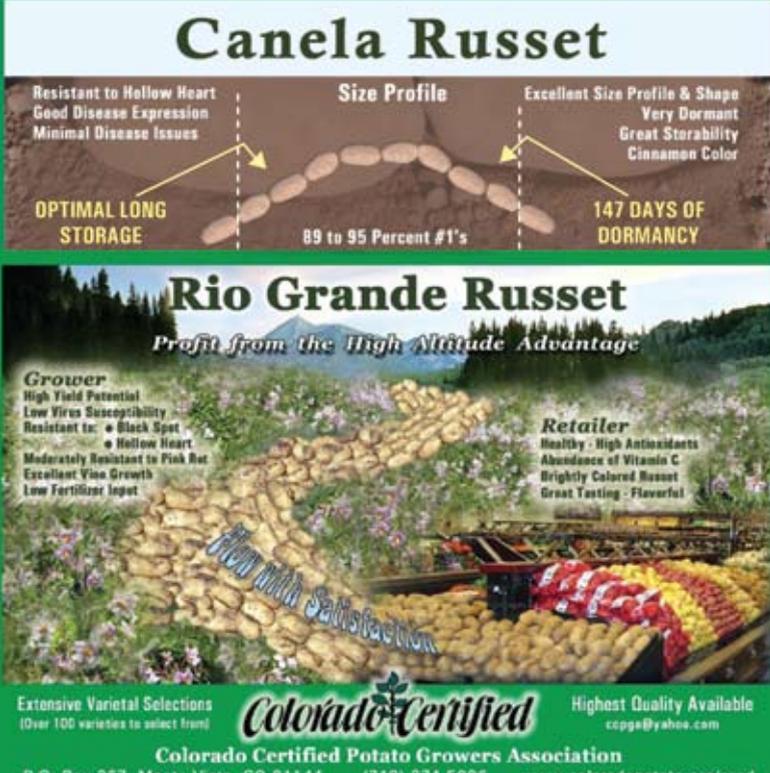
RUSSET
(CLASSIC • RIO GRANDE • MESA • PREMIER)

REDS
(CHERRY RED • COLORADO ROSE • RED LASODA 10)

YELLOWS
(YUKON GOLD • ALEGRIA)

**ISOLATION, EXCELLENT READINGS, QUALITY,
SERVICE AND SATISFACTION**

Brian Brownell
10539 N. 104 Rd. Hooper, CO 81136
Office: (719) 754-9048 Fax: (719) 754-2592 Mobile: (719) 588-3325
email: sales@zapataseedcompany.com
www.zapataseedcompany.com



Canela Russet

Resistant to Hollow Heart
Good Disease Expression
Minimal Disease Issues

Size Profile
89 to 95 Percent #1's

Excellent Size Profile & Shape
Very Dormant
Great Storability
Cinnamon Color

OPTIMAL LONG STORAGE

147 DAYS OF DORMANCY

Rio Grande Russet
Profit from the High Altitude Advantage

Grower
High Yield Potential
Low Virus Susceptibility
Resistant to: • Black Spot
• Hollow Heart
Moderately Resistant to Pink Rot
Excellent Vine Growth
Low Fertilizer Input

Retailer
Healthy: High Antioxidants
Abundance of Vitamin C
Brightly Colored Russet
Great Tasting: Flavorful

Extensive Varietal Selections
(Over 100 varieties to select from)

Colorado Certified

Highest Quality Available
ccpga@yahoo.com

Colorado Certified Potato Growers Association
P.O. Box 267, Monte Vista, CO 81144 (719) 274-5996 www.coloradopotato.org/seed

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 West-



Field of dark Red Norland potatoes in the Red River Valley

ern 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 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.



H&H Farms

Located in Colorado's San Luis Valley, H&H Farms produces certified seed potatoes. A three-generation family farm, 50 years of experience along with true dedication to quality and customer satisfaction stand behind their seed potatoes.

After being in the commercial, fresh-market potato business for 12 years, they understand the concerns of today's commercial grower. H&H Farms' commitment to ideal seed size, bruise control, pest management and storage monitoring sets them apart from other seed farms.

Field Monitoring

H&H Farms' fields are closely monitored for pests, providing them with

timely identification and control of insects, weeds and diseases.



Irrigation scheduling at H&H Farms involves a systems approach to water management. This ensures efficiency during irrigation and pesticide applications.

Aerial photographs taken throughout

the season aid in detecting fertility and irrigation problems. Special care during harvest and storage minimizes tuber damage and maximizes long-term storage.

They specialize in Colorado G3 through G6 certified seed.

Customer Care

At H&H Farms they are dedicated to developing long-term customer relationships, and they value feedback. Tours of their farm are available throughout the growing season, and they can make shipping arrangements for you.

For more information, contact Bruce Heersink by calling (719) 852-2706 or (719) 588-1737 or e-mail him at hnh-farms@amigo.net.



TIRE TOWN INC.

18.4-38 New 10Ply.....	\$675
600/65R28 Irregulars 100%.....	\$925
600/70R30 Full Tread.....	\$950
420/90R30 (16.9R30) New.....	\$710
800/70R38 Slightly Used.....	\$1200
20.8-38 New 10Ply.....	\$875
31/1350-15 Rib 6Ply.....	\$110
21.5-16.1 Bar Tread 12Ply.....	\$580
16.9-30 80%.....	\$295
19L-16.1 10Ply Rib.....	\$245
14.9R46 Used 80%.....	\$435
710/70R38 New New New.....	\$2250
14.9R34 Fwd 80%.....	\$400
18.4-34 10Ply New.....	\$605

Nationwide Shipping • Special Prices New & Used • All Sizes - Major Brands - We Deal!
 (800) 451-9864 (800) 444-7209

LOOK **up**, LOOK **out**,
 And LOOK **around**...



Farm safety begins with being alert. We can get a little too comfortable with our work and equipment. Always keep at least a 10 foot circle of safety between you, your equipment, and overhead power lines.

NorthWestern Energy

Delivering a Bright Future

POTATO SUNBURN?

(Here's a solution from Northwest Tillers.)

- **Problem:** Sunburned potatoes
- **Cause:** Potato exposure after defoliation
- **Solution:** Re-cover exposed potatoes with soil
- **Method:** Our reverse-drive tiller moves soil from the furrow over the hills without harming the potatoes, using controllable depth from 1/2 to 2 inches with Northwest's exclusive "Deep Reach" rotors and blades.

Problems start to occur when plant foliage is removed before harvest and potatoes near the surface or above the ground are no longer shaded. The fields can dry out before the harvest and the soil can crack as it dries, exposing the potatoes to further sunlight.

Northwest's Potato Sunburn-Prevention Tiller gently re-covers the potato hill with a sunblocking layer of soil, eliminating furrow clods and saving crop loss from sunburn and maximizing your farm's packout.

Northwest Tillers, Inc.
 3715 West Washington Avenue
 Yakima, WA 98903
 (800) 204-3122
 www.nwtiller.com



H&H FARMS



Independent crop consultants at Agro Engineering help us monitor our seed throughout the growing and storage seasons.

Varieties

- Blazer • Colorado L-3 • Canela

Call or Email Bruce Heersink
 (719) 852-2706 or (719) 588-1737
 Email: hnhfarms@amigo.net

H&H Farms is a member of the Colorado Certified Potato Growers





Montana Seed Potato Certification Program

Certified seed potato and commercial growers alike from throughout the United States know they can expect extremely high quality, clean and disease-free seed from Montana.



Montana seed potato producers have the luxury of the best geographical isolation in the United States. Montana's seed potatoes are produced in mountain valleys with virtually no commercial production. Relatively cool growing conditions in the secluded mountain valleys result in reduced insect pressure and the arid environment limits the spread of diseases.

The excellent quality of Montana Seed Potatoes is backed by the most rigorous testing and inspection standards in the country. All potatoes certified as seed originate from in vitro plantlets produced by the MSU Seed Potato Certification tissue culture program. No out-of-state potatoes are allowed to be used as seed stock for seed certified in MT. During the summer growing season, all early generation potatoes are 100% tested for viruses PVX, PVY and PVY, and all Generation 2 potatoes are tested for PVA and PVY. Many growers also choose to have their generation 3 and 4 crops virus tested.

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. 

North Dakota Certified Seed Potatoes
Contact North Dakota State Seed Department for more information and a Copy of North Dakota Seed Potato Directory. www.ndseed.com (701) 231-5400 P.O. Box 5257 Fargo, ND 58105
Varieties: Russet Burbank, Russet Norkotah, Norlands, many more. Consistent quality and performance.

Edmonton Potato Growers Ltd.
12220 – 170 St., Edmonton, AB T5V 1L7
Ph: (780) 447-1860
www.epg.ab.ca
Northern Grown for Northern Vigor.



MAUGHAN FARMS, INC
EXCELLENT ISOLATION
CLEAN READINGS
QUALITY SEED for over 30 YEARS
P.O. Box 1449 Fort Benton, MT 59442
CERTIFIED SEED POTATOES
• Russet Burbank • Gen 3
Steve: (406) 799-7197
Shop: (406) 734-5255
"Looking for new contracts"



NITROGEN SULFUR SYNERGY PLUS
Patent Pending

URAM is the best nitrogen sulfur fertilization method for many reasons. The addition of Agrotain and/or DCD (dicyandiamide) will further enhance the effectiveness of URAM. Agrotain slows the conversion of urea N into ammonium N. The conversion is usually too rapid for the soil to absorb... even in liquids injected into the ground. 30% is lost through ammonia volatilization. DCD slows the nitrification of ammonia N into nitrate N by 80%. Denitrification of nitrate N is also slowed. Ammonia N has a positive charge while nitrate N has a negative charge. Soils have a negative charge... so ammonia N attaches to the soil and stays while nitrate N leaches.

- N efficiency alone is 40%**
- URAM increases N efficiency 20%**
- Agrotain increases N efficiency 20%**
- DCD increases N efficiency**
- This technology will double the efficiency of N**



"Your Cover Crop Specialists"

- Bounty Annual Ryegrass • Winter Peas**
- Daikon Oilseed Radish • Hairy Vetch**
- Crimson Clover • Persian Clover**
- Subterranean Clover • Cow Peas**
- And More**

Cover Crops make dollars and sense!

- **Improve Yields • Reduce Erosion**
- **Save And Add Valuable Nutrients**

Contact Us For More Information

Phone: (217) 868-5181

Email: ronalthoff@yahoo.com

www.SaddleButte.com/CoverCrops.aspx

- Net & Silage Wrap
- Stall Baler Twine
- Square Baler Twine
- Super XL Series
- Tape & Mono Round Twine

A quality job saves time and money.

Benefit #4 efficiency

Using **PXL Baler Twine** and **Bale Wrap** will give you the quality, strength, and durability you need to help you efficiently handle your workload. Better efficiency means you can get out of the field faster, which means more free time and more cash in your wallet.

NEW!
POWER-BALE & POWER-BALE HD

Our Power-Bale line of products are especially designed for Krone balers and high-density bales. Extra strength for tough baling conditions and maximum weight.

877 438 7659
www.POLYEXCEL.com

PolyExcel, LLC

Committed to Excellence!

A. Link, Inc. A short Profile of our Company

If you're looking for a safe, effective way to biologically improve your soil, the search ends with BIO Gold or BIO Red from A. Link, Inc. of Grand Forks, North Dakota. BIO Gold or BIO Red are dormant soil bacteria used by both conventional and organic growers. For an organic grower, enough nitrogen for the organic plants to produce an above average crop is very difficult. Our bacteria supplies 40 to 50% of your nitrogen needs organically. Conventional or organic corn does very well using BIO Gold or BIO Red. Our BIO also increases brix levels, increases organic material in the soil, helps reduce crusting and can be applied to all soil types for a vast array of uses, just to name a few advantages. For the farmer with thousands of acres to the home gardener with flowers and/or vegetable garden, BIO Gold or BIO Red are your one stop resources for healthier, higher quality crops plus increased shelf life of fruits and vegetables.

After a few years of preliminary research by Douglas Peterson and his brother/ chemist partner, Mark, the company was officially formed in 2006.

A Link, Inc. is proud to be a smaller company that is flexible in meeting all of their customers' needs. 2010, A. Link, Inc. has implemented a pilot program, whereby chemist partner, Mark is formulating BIO Gold or BIO Red engineered for individual grower's needs. The fall of 2010 we will know the outcome of this new program.

BIO Gold or BIO Red have earned rave reviews and in a relatively short period of time, have established a solid reputation

throughout the United States. The only difference between the two products is speed of activation, which is taking BIO from dormancy to application ready: BIO Gold takes twenty four hours, BIO Red takes thirty minutes to activate.

Both have their advantages: BIO Gold is ideal for the farmer with larger acreages, while BIO Red is great for faster activation, for gardeners and farmers with smaller acreages.

The two BIO products are remarkably versatile we have been told. End rot on tomatoes is caused by a fungus, our bacteria consumes the fungus before the fungus has a chance to attack the tomatoes on the tomato plant. Our beneficial bacteria will not only eliminate the fungus but will also boost its immune system so disease is unlikely.

Watermelon growers remark on not only the increased size of their watermelon, but also the melons are sweeter tasting. Watermelon growers have observed larger crops because they have increased their pickings from two to five or six pickings per season. Vineyards have made similar observations noting better quality and better tasting grapes. Having a sweeter, higher quality grape, the wineries are expressing a higher quality wine.

"You can really taste the benefits, because our BIO Gold or BIO Red increases the sugar levels in the fruits and vegetables," Peterson explains. He continues, "I love visiting with people from all over the U.S. and hearing their different stories. Everyone has a slightly different problem and it's rewarding to help them."

BIO Gold or BIO Red are not only used on the above crops, but all crops. All crops need an abundance of good bacteria to overcome the bad bacteria, and that's basically why BIO Gold or BIO Red is so successful in the field.

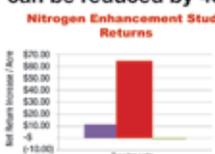
Hog farmers have expressed enthusiasm over their ability to reduce odors by consuming ammonia in their lagoons and barns. Without the ammonia odor, the hogs are living in an environmentally clean atmosphere whereby the hogs eat and drink less, but gain weight faster.

To learn more visit www.biogoldonline.com. Email biodoug@alinkusa.com or Call 877-246-9722.



BIO Gold® from A. Link, Inc. is an all organic product containing a wide variety of microorganisms including those that are nitrogen fixing. BIO Gold® produces natural hormones such as auxins, indoleacetic acid, and gibberellins (gibberellic acid) which support function of growth and maturity in plants. Since BIO Gold® contains both organic matter and microorganisms, it develops its own compost which contains humates. **BIO Gold® microbes convert atmospheric nitrogen to a usable form by the crop and metabolizes enzymes organically, assuring a constant supply for the plant. Commercial nitrogen rates can be reduced by 40% to 50%.**

Nitrogen Enhancement Study Returns



BIO Gold® nitrogen rates were applied at 50% (100#) of the Control and yield only suffered by 1.0 Bu./A! Considering cost of nitrogen and yield/acre, **BIO Gold®** topped this study with a \$59.40/A. net return.

A. LINK, INC.
877-246-9722
biodoug@alinkusa.com
biogoldonline.com
 Printed brochures available.
 DVD available upon request

BIO Gold® is used by Organic Farmers and Conventional Farmers

LAND AUCTION

Duck's Unlimited Goebel Ranch

**TO BE SOLD IN 4 TRACTS.
BUY 159 OR UP TO 7,285 ACRES!**

October 22 | 11:00 a.m.

Auction Location: Best Western Ramkota, Aberdeen, SD



510 Main Ave Ste 4
Brookings, SD 57006



CHUCKS UNLIMITED



Online Bidding
proxibid

Chuck Hegerfeld, Broker • Jackson Hegerfeld, Auctioneer/Broker Assoc. • Megan Hegerfeld, Broker Associate

605-692-2525 | SDLandAuction.com

Terms: Must have \$15,000 certified funds in order to attend auction. Purchase subject to Buyer Premium. Announcements made day of sale take precedence over all written material.

Grazing Grass On Irrigated Farms

By: Don Hijar – 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 ¼" to ½" 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.

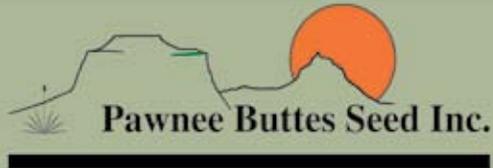
Irrigated grass requires ¾" to 1" of water per week for optimum to maximum production. The source of water can be precipitation or irrigation. Total annual requirements is 24-30"/year. Cool season grasses should be watered from March 1st to November 1st for maximum yield. Cool season grass under irrigation 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. 🌾



Pawnee Buttes Seed Inc.

We sell a lot more than a bag of seed.



Pawnee Buttes Seed, Inc. provides native and introduced grass, forb, and shrub seed for reclamation, pasture, turf and wetlands.

Our emphasis is on educating our customers on proper management techniques to ensure grass stand longevity and conservation of our natural resources.

Don Hijar, Manager
PO Box 100 • 605 25th Street • Greeley, CO. 80632
(800) 782-5947 • (970) 356-7002 • Fax (970) 356-7263
email: info@pawneebuttesseed.com
www.PawneeButtesSeed.com

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 mon-

ey. 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.)

Fertilize-Big Yields AND Low Cost

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

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

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

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

Check the website www.SeaMineralsFA.com for 2010 field trial results or call Rocky Springs Ranch 800-967-0452 for your nearest distributor.

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.
- Custom machines also built to fit your needs.

For more information call: (970) 381-0961

Change any chisel plow into a Coulter Machine

All steel (no cast iron)



The coulter kit includes:
Two 18" 13-wave boron
"earth hardened" coulter
blades.

Exclusive "Double Shields"
for bearings and seals.

Exclusive Double Bearings
on each end of the shaft -
4 bearings in all!

Kit includes all mounting
hardware.

Ron's Mfg.

(Please see press release in this issue)

For more information go to

www.ronsmfg.com or call **(605) 266-2177**

email: info@ronsomfg.com

Ask Us About The Electric Dakota Grills

www.dakotagrills.com



Fertilize Now? Are you crazy!

SEAMINERALS FA can be applied anytime during the growing season

- \$6 per application per acre (3 times per year recommended)
- Works as a soil fertility supplement that re-mineralizes the soil
- Applied as a foliar spray on green plants. Dissolves easily.
- Has a lasting positive effect on the microbes in the soil
- Can be mixed with other ingredients (weed killers, other fertilizers)
- Excellent animal mineral (average 1 pound/head/month)

1-800-967-0452

Call for a Brochure

Lynn Buhr, Rocky Springs Ranch

Siloam Springs, AR

Looking for Distributors in Your Area

www.SeaMineralsFA.com

479-524-8921

SEA MINERALS comes from very clean sea water. Tests have shown that this product contains all the minerals in the same proportions that those same minerals occur in the blood of healthy animals. Anyone who wants to improve the mineral content of their soil and vegetation can do so by applying SEA MINERALS.

Clean Up Your Water With Our Water Filtration For Irrigation Systems

3 Sizes of Water Drive machines available from 2'x8' to 3'x10'

- Maximum GPM 1500-4500 Gal/min
- Screens Choices 1/4" to 1/8" holes
- Galvanized Metal with or without Powdercoating

Mailing: 33998 WCR 37

Shop: 34417 WCR 39 ▪ Eaton, CO 80615

(970) 381-0961 ▪ www.hydroscreeninc.com



Mike's Windmill Shop, LLC

Mike's Windmill Shop, LLC is a family owned business. This shows in the high quality of our products and friendliness of our customer service. When you call or e-mail you are communicating with Mike and Joy, the owners of the business. We love what we do. We build our products right here in our shop in Arizona. Each one of our wind generators are tested by Mike himself. Mike has had a lifelong interest in wind power and decided in 2003 to share his talents with others by starting Mike's Windmill Shop. Over the years we have helped teach many people in their own journey to independence. We answer questions even when you do not buy our products. We have had many people who are building their own

systems who call for advice on how to design and put together their project. We decided that one way that we could



help others is to teach courses in building wind power. In 2009 we started

our wind and solar power workshops. We have taught people from around the world right here in our shop. They have learned how to build their own wind generators, how to design their systems, and how to install and maintain their off grid wind and solar power. Now we are putting our workshop on DVD so that you can learn from the comfort of your own home. Our DVD/CD course will be available by the holidays. Of course we still offer our wind generators for sale for you to install at your home. We help guide you through the process from design, to installation, to maintenance. We are here to answer your questions. We also offer kits so that you can build your own wind generators. Contact us at 928-532-1607 www.mikeswindmillshop.com

MIKE'S WINDMILL SHOP, LLC
HOME OF THE MALLARD
WIND GENERATORS
928-532-1607
www.mikeswindmillshop.com

Mallard LW
5' diameter
low to mid winds \$369

Mallard Supreme
8' diameter \$1299

7'3" diameter \$1099

Solar \$2.95 per watt

Instructional Workshops Soon on DVD/CD
Learn to build your own wind generators,
make windmill blades, install wind and
solar for your home, connect to batteries &
inverters, tips to build your own system
All from the comfort of your own home
Lots of friendly customer support

**CUSTOM SIZED STEEL FRAME BUILDINGS
FOR YOUR FARM FROM VARCO PRUDEN**

Why settle for a standard sized building?
Whether you need a barn, dairy, arena, or storage for crops or equipment, Varco Pruden builders can provide a quality building to meet your needs and budget.

- Custom sizes to 1/16th", from 20' to 250' Wide and 30' to 750' Long
- Wide selection of colors with long-life warranties.
- Delivery as soon as 4-6 weeks, depending on complexity.
- Professional installation available through VP's nationwide network of Authorized Builders.

Trusted since 1948.
To request this free information, go to:
www.vp.com/ad/WFR1211

©2010 Varco Pruden Buildings is a division of BlueScope Buildings North America. All rights reserved.

Scimetrics Offers Superior Pest Management Products

Motivated by the death of a friend's wife from a rodent-borne illness, Richard Poche began the quest to develop the perfect rodent bait. It had to be highly effective, destroy the fleas and the rodent, offer an antidote and yet, be less risk to non-target animals. Richard Poche and Scimetrics Ltd. Corp. proudly offer that very solution with their line of Kaput® products.



Scimetrics is a family-operated business located in the foothills of Northern Colorado. The main facilities include a state-of-the-art laboratory and manufacturing plant. Scimetrics is dedicated to developing products that exceed expectations.

Scimetrics scientists have done extensive rodent research and management in over 60 countries. The Kaput product line is backed by over 100 years of experience in rodent control, formulation and product development.

Kaput® products are available for Rats, Mice, Voles, Moles, California Ground Squirrels, Pocket Gophers and in certain areas, Prairie Dogs. Kaput® Combo Bait products are the only baits in the world that include an insecticide to help control the rodents' fleas. They are available in convenient place packs, blocks, pellets and loose grains. These cutting edge products are formulated with 1st generation anticoagulants. They are highly effective baits and at

the same time, low risk to non-target animals. All the Kaput product lines meet the requirements of the Environmental Protection Agency's Risk Mitigation Decision.

Kaput® products can be purchased in local Hardware, Farm & Ranch stores

and from most Agricultural and Pest Control Distributors. Please visit their website at www.kaputproducts.com for detailed product information and instructional videos. You can also call the helpful **Customer Support Line at 1.866.442.3467.**

Portable, All-Steel Shelters



Approximate sizes of this style hut are 4'6" wide x 3'10" high x 7'6" long or 6' wide x 4'6" high x 7' or 11' length. Check brochure for options and specifications.

Check the web site or call today.
All Port-A-Huts must be anchored.

P.O. Box 369 Storm Lake, IA 50588
800-882-4884
www.port-a-hut.com



Kaput

- **Cutting Edge Rodent Control**
- **Made in Colorado**
- **Environmentally Responsible**



Order Today 1-866-442-3467
www.KaputProducts.com

How hard is it to make hand-crafted beer and wine at home?

Midwest Homebrewing and Winemaking Supplies has been helping folks make their own beer and wine at home since 1995. Midwest offers all the equipment and supplies you need to make your own excellent wine and beer at home. Beer making kits start at \$59.95 and winemaking kits start at \$72.95. Midwest includes a free 90 minute instructional DVD with any purchase.

Making beer at home has never been easier and the quality of the finished product rivals that of micro brewed beer. Midwest offers over 110 recipes to choose from and all of the ingredients you need to make your own custom recipes. Could you be the next Sam Adams? Jim Cook, the founder of Sam Adams started as a home brewer while he perfected his recipes.

Beer recipes are available for beginners to expert homebrewers. Either way, Midwest has a "How to" DVD that takes you step by step through the process of brewing beer at home in your kitchen. Simply pop in the DVD and start brew-

ing. You see the brewing process demonstrated from the boiling process all the way through to the bottling process.



Making wine at home has never been more popular. Back in the 1970's winemakers made wine from what ever fruit they could get their hands on. You may remember the Plum or Beet wine your neighbor or Uncle gave you that made your eyes water. The times have changed. Today winemakers use high quality wine juice from all over the world. This juice has been acid adjusted and pH balanced to insure optimal results. Make high qual-

ity wine the first time you try!

About 75% of winemakers are making wine from juice kits which yield 6 gallons. The other 25% are making wine from fruit and grape juice. The wine juice kits do not require much time and effort. Your reward is 30 bottles of wine that cost as little as \$1.75 per bottle. Midwest's DVD demonstrates how to make wine from fruit and grapes. Wine-making is truly a hobby that you can do for the rest of your life.

Midwest has a free 88-page catalog, which is available on request. The catalog has over 2000 products in it related to beer and winemaking. Midwest's "How to" DVD is free with any purchase. Gift certificates are available on-line. Beer and Wine kits make great gifts!

Contact us at Midwest Homebrewing and Winemaking Supplies, 5825 Excelsior Blvd., St. Louis Park, MN 55416, visit our website at www.MidwestSupplies.com or call toll free 888-449-2739. 

It's so EASY...to make beer & wine at home!
Our FREE DVD will show you how!

- Homebrewing
- Winemaking
- Liqueurs

MIDWEST
 HOMEBREWING AND WINEMAKING SUPPLIES

- Cheesemaking
- Coffee Roasting
- Soda making

 Beer Equipment kits start at just \$59.95

 Over 110 Beer Recipes to choose from

FREE instructional DVD with ANY purchase!
 Call for our FREE 88 page catalog **1-888-449-2739**

Midwest Homebrewing and Winemaking Supplies
www.MidwestSupplies.com

HydroStar Hydrogen Generator

splits distilled water into Hydrogen and oxygen gas

"I have a gas saver on my Dodge Pickup Cummins diesel. It mixes fuel and air and boosted my milage from 12 mpg to as much as 20 to 21 mpg. When I pull my heavy-duty horse trailer with living quarters, it still gets 18 mpg."

*Bill Bloxom,
 Santa Fe, New Mexico*



Hydro-Star L.L.C.
 Andrew Herold Sr.
 11402 West View Court, Beltsville, MD 20705
(240) 715-5000
aheroldsr@yahoo.com
www.makehydrogenerators.com

AgriCharts' Website Hosting Platform Enhances Clients' Growing Businesses

AgriCharts, the agricultural division of Barchart.com, Inc., which provides market data, agribusiness website hosting and technology solutions to the agricultural industry, announces the launch of a variety of new agribusiness website hosting relationships. As a result, the new clients have experienced improved productivity from AgriCharts' professional websites, while keeping them manageable for site administrators regardless of skill level.

"We use our clients' feedback to enhance our platform to fit their needs, which has resulted in improved productivity and better relations with the clients' own users," said Mark Harburda, AgriCharts Managing Director. "Ongoing interactions with our clients are absolutely imperative, not only to maintain client relationships, but to also constantly enhance our product," added Harburda.

The ability to build professional, yet manageable websites has left clients impressed with the efficiency of the AgriCharts platform. "When our company made the decision to set up a new site with AgriCharts, the process of constructing it from scratch seemed daunting. In reality, the process went smoothly, despite my limited website building skills. Working with a pre-made demo site—which nearly encompassed everything we needed—left a minimal amount of customization work on our part," said Kevin R. Kjorsvik of Harrold Terminal, LLC. "The web building tools were logical and easy-to-use, and in the instances that I did need assistance, the technical support team at AgriCharts was available, knowledgeable and immediately completed tasks that I neither had the time for nor ability to accomplish," Kjorsvik added.

AgriCharts' strategy has been successful, leaving customers satisfied by the improved productivity of their growing businesses. "Since working with AgriCharts on our website, customer traffic has increased significantly. Customers, old and

new alike, appreciate all of the information available to them with just a click-of-the-mouse. As the administrator of the site, I appreciate the ease at which I can enter or edit information. The customer service I have received has been phenomenal from the start," said Angie Maguire of Citizens LLC. "Overall, I am incredibly pleased with our transition to AgriCharts and look forward to working with AgriCharts for many years to come," added Maguire.

Some of AgriCharts' new clients include: American Ag Network (www.americanagnetwork.com), Agland Marketing (www.aglandmarketing.com), Cantril Feed & Grain (www.cantrilfeedgrain.com), Co-Alliance Energy and Agribusiness Solutions (www.co-alliance.com), Citizens LLC (www.citizenslevator.com), Decisive Farming (www.decisivefarming.com), Elmer Wood Company, Inc. (www.elmerwoodcompany.com), Exporter Elevator Company (www.exporterelevator.com), Harrold Terminal, LLC (www.harroldterminal.com), Lancaster Farming (www.lancasterfarming.com), Long Leaf Trading Group (www.longleaftrading.com), Premium Feed & Grain (www.premiumfeedgrain.com), Swineweb.com (www.swineweb.com), and Washington Friends of Farms & Forests (www.wafriends.org).

For more information, please visit www.agricharts.com

Two Guys Communications Inc.
A Wyoming Owned Corporation

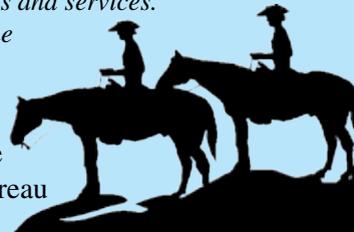
www.twoguyscomm.com

(toll free) 866-632-4285
Cheyenne, WY

For all your telephone, network and computer installations and services.

New long range phone covering up to 3,000 acres.

Members of the
Better Business Bureau





take comfort...

Commercial Furnace

Our most versatile furnace, the GBU130 can be set from 85,000 to 130,000 BTU, giving a wide range of heating for larger homes and commercial use.

The GBU130 has a wide variety of available installations. Thermostatically controlled, it has a built-in pilot, and it can be upflowed or downflowed. If height is a concern, it can be used in a lowboy configuration. A domestic hot water option is also available, so you can heat your home and save money on your hot water at the same time.



GBU130 - Commercial Furnace

-  Pellet
-  Corn

We also manufacture boilers.

Pinnacle Stove Sales | 1089 Highway 97 North
Quesnel, BC, Canada | V2J 2Y3

Phone toll free (866) 967-9777 or call (250) 992-5050
Email us at pinnaclestove@telus.net

www.pinnaclestove.com

New Horizon Corporation Earth-Friendly Way to Heat

New Horizon Inc. is announcing new extended line of Wood Gasification Boilers which provide safe and environmentally friendly way to heat your home and domestic hot water with wood and other biomass byproducts. The boiler uses wood gasification combustion (with a secondary combustion process) which gives a high, overall heating efficiency.

BioMass Gasification Boilers utilize wood (biomass) in the burning process, which uses the energy contained in the wood with efficiency—up to three times higher than traditional boilers or wood stoves. In simple words, it releases wood

gas, also known as syngas or producer gas, from biomass and burn it in a secondary combustion process. Smoke and other emissions are cut to a very low level, due to very high temperature of secondary combustion, making our boilers nature-friendly.

The wood gasification combustion technology used in BioMass wood boilers is the most efficient way to burn firewood. As a result, our boilers use substantially less wood than conventional wood boilers and outdoor water stoves. Additionally, this high efficiency burn technology produces little or no creosote, virtually eliminating the risk of a chimney fire and great-

ly reducing greenhouse gas emissions.

Environmental Benefits of Wood Gasification:

- Reduce carbon dioxide emissions (Greenhouse gas)
- Reduce fossil fuel consumption
- Reduce SO₂ and NO_x emissions (acid rain gases)

Wood as a fuel is a good solution due to the fact that it is a renewable resource like solar, water or wind power. These energy sources will never be depleted unless improperly taken care of.

For more information visit www.newhorizoncorp.com or call them at 1-877-202-5070



Wood Gasification Boilers
BioMass and Eko Line Boilers

BioMass 60 *BioMass* The Next Generation of Induced Draft Multi-Fuel Gasification Boilers

Fuel Source:

- Seasoned Wood
- Corn Cobs with Kernels
- Coal (50%)
- Saw Dust
- Wood Chips (50%)
- Any kind of Pellets

BioMass Boilers

Model	kBtu	Model	kBtu
25	85	60	205
40	140	80	275

BIOMASS COMBO BOILERS

Models 25, 40 and 60
Wood - Oil - Gas

EKO LINE BOILERS

Eko Wood Gasification Boiler

Model	kBtu
25	85
40	140
60	205
80	275

Leading the Way to Clean, Efficient Heating

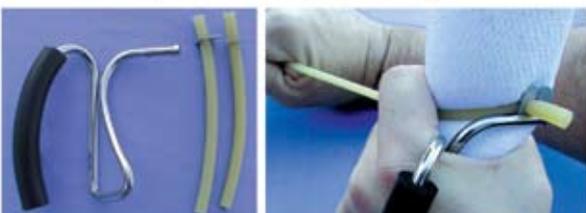
New Horizon Corporation
1-877-202-5070 (304)765-7171 www.newhorizoncorp.com



Make **YOU** and your **BULL** happy today!
With the new **"California Bander"**

- ✓ Bulls don't like being in a chute too long
- ✓ You don't want to be under the bull too long!

Easily places bands in just seconds!!!
The price will make you even happier!



Hear what one of our customers has to say!
"The easiest of all the banders we have used"
Gary Fritsch, Fayetteville, TX

Money Back Guarantee Call today **800-847-2533**
See video at www.inosol.com or call for a free demonstration DVD

Pressurized Exhaust Kills Burrowing Rodents

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



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

Company owners, Allen Hurlburt and Virginia Massey, said that the PERC system involves a narrow steel wand that is used to probe the burrow and inject pressurized exhaust that fills the burrow in two minutes with lethal concentrations of carbon 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 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

BURROWING RODENT PROBLEMS?

PERC - Pressurized Exhaust Rodent Controller can eliminate them!

- Simple To Use
- Low Operating Cost
- Minimizes Crop & Equipment Damage

- Fast Working
- Environmentally Friendly

PERC Can Reduce
Rodent Population By 80-85%
In A Single Treatment.

No Poison bait,
No Explosions!!



(530) 667-5181



H&M GOPHER CONTROL

MANUFACTURING & SALES

WWW.HANDMGOPHERCONTROL.COM

PERC
Model 412





JOHN CONSTRUCTION

POLE BARN SPECIALIST

NEED A BARN
FOR EQUIPMENT?



We Build Any
Size & Style:
Garages ♦ Shops
Hay Barns ♦ Etc.

40 Year Warranty
Metal Engineered Building
& Engineered Truss

www.JohnConstruction.net

We have insurance & carry workmen's comp.

Call for FREE ESTIMATE @ 1.877.737.7707

Cell: 479.841.1796 (John, Owner) johnconstruc1472@att.net

PHASE-A-MATIC

3 Phase Power Anywhere!

Phase converters are used when three-phase lines are not available or are cost prohibitive.

The phase converter will run virtually any 3-phase machine at any single-phase location. Advances in

converter technology have resulted in low price, high performance and reliability closely resembling three-phase line power. This enables us to provide the required power for CNC and other voltage sensitive equipment.

100% BUILT IN USA!



**Axle Jacks • Frame Jacks • Wheel Jacks • Tranny Jacks
Oil/ATF Caddys • Filter Crushers • Ramps • Clutch Caddys
Cylinder Locks • Wedge Locks • Roll Off Safety Stands**

Emerson Manufacturing Corporation

800-633-5124

www.emersonjacks.com



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)

**HERRS
MACHINE**

HYDROSTATICS SINCE 1969

REBUILD OR EXCHANGE

**Hydro Rebuilds On Combines • Swathers
• Skid Steers • IH Loader Tractors.**

*Rebuilt or exchange • Transmissions Are Tested
Save on our IH TA Special*

Package Deals on IH Torque Amplifiers & Related Parts.

If You Want The Best, Call Herrs Machine!

TOLL FREE: (877) 525-2875

1745 Prospect • Washington, KS
www.herrsmachine.com

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.

COMPANY REPUTATION & BENEFITS

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

Used and New Irrigation Systems

Tico • Rainbird Wade • T&L • Hobbs/Amadas • Rovatti • Caprari



John Deere/Berkley
NEW for \$9950.00
750 GPM at 60 PSI 400 GPM at 110 PSI
Full Safety Control • Primer/Battery/Muffler
5 x 20 Suction/Screen Rain Cover
Trailer/Fuel Tank add \$1000
New Amiad 3" 750 220 GPM \$1000



Deals on Reels

<p>In Stock Used Irrigation Systems in Good Condition for Immediate Delivery</p> <p>800 pieces Circlelock 6 x 30 \$100 200 pieces Circlelock 5 x 4 \$120 30 Flex O Seal 6 x 20 \$50 1000' Tico Mixed 5/6 x 6/20 \$2500/lot 1000' Al 7 x 30 Hook \$1500 600 Tico 2 x 30 H&R Sprinkler \$55 300 Hook 3 x 30 H&R Sprinkler \$50 200 Sure Rain H&R Sprinkler \$80 150 Pieces Used Hastings Hook 4 x 30 Sprinklers \$100 Ea. <i>Gaskets in stock for all makes of irrigation pipe.</i></p>	<p>100 of Solid Set Irrigation System \$100,000 Tomato Grower Retired</p> <ul style="list-style-type: none"> • 1/2 Mile of Main Line • 2400 (Hook Type) 3 x 30" al pipe with sprinklers • NEW Ahmid Disk Filter 3" 250GPM \$1,000 (This system can be split up. Have pictures of total system) 	<table border="0"> <tr><td>1 Ocmis 2002 Turbine 4" x 1000'</td><td>\$22,900</td></tr> <tr><td>1 Bauer Piston 4" x 1200'</td><td>\$12,500</td></tr> <tr><td>1 Bauer Piston 4" x 1000'</td><td>\$11,900</td></tr> <tr><td>1 Irrifance Turbine 5" x 1000'</td><td>\$14,900</td></tr> <tr><td>1 Hobbs Engine 5" x 1300'</td><td>\$16,900</td></tr> <tr><td>1 Hobbs Turbin 5" x 1300'</td><td>\$19,000</td></tr> <tr><td>1 Cadman 2006 Engine 4" x 1000'</td><td>\$24,900</td></tr> <tr><td>1 Ferbo 90S 3" x 985'</td><td>\$9,750</td></tr> <tr><td>1 Ferbo 125 350 5" x 1200'</td><td>\$14,900</td></tr> <tr><td>1 Cadman 2008 3" x 885'</td><td>\$12,500</td></tr> <tr><td>1 Cadman 1996 25/8 x 900'</td><td>\$12,500</td></tr> <tr><td>1 Bauer 1995 Turbine 4" x 1050'</td><td>\$16,750</td></tr> <tr><td>2003 1 ABI 125 350 5" x 1200'</td><td>\$24,500</td></tr> </table>	1 Ocmis 2002 Turbine 4" x 1000'	\$22,900	1 Bauer Piston 4" x 1200'	\$12,500	1 Bauer Piston 4" x 1000'	\$11,900	1 Irrifance Turbine 5" x 1000'	\$14,900	1 Hobbs Engine 5" x 1300'	\$16,900	1 Hobbs Turbin 5" x 1300'	\$19,000	1 Cadman 2006 Engine 4" x 1000'	\$24,900	1 Ferbo 90S 3" x 985'	\$9,750	1 Ferbo 125 350 5" x 1200'	\$14,900	1 Cadman 2008 3" x 885'	\$12,500	1 Cadman 1996 25/8 x 900'	\$12,500	1 Bauer 1995 Turbine 4" x 1050'	\$16,750	2003 1 ABI 125 350 5" x 1200'	\$24,500
1 Ocmis 2002 Turbine 4" x 1000'	\$22,900																											
1 Bauer Piston 4" x 1200'	\$12,500																											
1 Bauer Piston 4" x 1000'	\$11,900																											
1 Irrifance Turbine 5" x 1000'	\$14,900																											
1 Hobbs Engine 5" x 1300'	\$16,900																											
1 Hobbs Turbin 5" x 1300'	\$19,000																											
1 Cadman 2006 Engine 4" x 1000'	\$24,900																											
1 Ferbo 90S 3" x 985'	\$9,750																											
1 Ferbo 125 350 5" x 1200'	\$14,900																											
1 Cadman 2008 3" x 885'	\$12,500																											
1 Cadman 1996 25/8 x 900'	\$12,500																											
1 Bauer 1995 Turbine 4" x 1050'	\$16,750																											
2003 1 ABI 125 350 5" x 1200'	\$24,500																											

Davey-Joans

Toll Free: 800-360-4991
Cell: 813-760-2001
E-mail: dave@daveyjoans.net
Dave DeGraff

DEPENDABLE POWER CONVERSION YOU NEED

PHASE CONVERTERS TO RUN 3-PHASE EQUIPMENT FROM 1-PHASE POWER SOURCE

PHASE-A-MATIC™

CALL TODAY!

MADE IN USA

NEED 3-PHASE POWER?

PHASE-A-MATIC, INC. has the right phase converter for YOUR application



STATIC CONVERTER

Run your:

- air comp.
- grinder
- lathe
- saw
- mill
- & much more!



ROTARY CONVERTER

FULL POWER to:

- water pumps
- grain dryers
- dairy/milking
- center pivot
- anything three-phase!
- also CNC PAC for CNC/PLC

Since 1965

1-800-962-6976

www.phase-a-matic.com

KLEENair Vacuum Grain Screener

We've displayed the KLEENair unit for the past ten years at the NATIONAL FARM MACHINERY SHOW in Louisville, KY. Visiting with hundreds of producers at the show made us aware of the great amount of confusion regarding the different types of grain cleaners being offered for cleaning grain as it leaves a grain dryer. For example, the Kongskilde, Farm Fans, Super B, and GSI grain cleaners are ASPIRATOR type cleaners, which suck air in through the discharging grain column and pull light fines (like bees wings) in with the air, and then blows them away. An ASPIRATOR cleaner does a fairly good job of removing bee's wings, and light fines, but it doesn't do much about removing fines. If all you want to do is remove bee's wings, the ASPIRATOR type cleaner may be all you need.

The KLEENair Vacuum Grain Screener is significantly better than the ASPIRATOR Cleaners because of the SCREENING ACTION where the Nylon Tipped, Hanger- Bearing Auger moves the grain across a perforated tube, enclosed in a heavy metal hopper, which has a vacuum environment inside. Broken kernels, cracks, splits, fines and bees wings are screened here, drawn out, and blown away by the high-pressure blower. The fines are totally enclosed from the KLEENair Screener to the fines storage equipment. This

helps keep the area around the dryer clean and free from blowing debris.

We encounter many grain producers who have purchased ASPIRATOR type cleaners hoping to clean and remove broken kernels and fines and were subsequently disappointed since this is a job they won't do very well. The KLEENair Vacuum Grain Screener was specifically designed to clean fines and bee's wings simultaneously. The KLEENair Blower is also different than the blower used on other ASPIRATOR type cleaners, in that it moves less volume of air at higher pressure. Therefore it can transfer product further with less wear.

We designed our KLEENair Screener unit to be rugged and solid, with heavy gauge material to provide many years of trouble-free use. The KLEENair units are reliable. Operators tell us they aren't even aware the KLEENair is attached; it simply runs when the dryer runs. Customer reports have been favorable, for instance:

(1) "It keeps the area clean and free from trash blowing around the yard".

(2) A customer reported he could control the FM percentage by the rate he fed grain to the Self-Powered KLEENair (from in-bin storage). He wanted to haul 1% FM in and claimed he was able to do it. (Note: we also manufacture a Self-Powered KLEENair with removable screens for cleaning all types of grains.)

(3) One of our oldest KLEENair Deal-

ers commented recently that the KLEENair really had no competition since the KLEENair is the only unit on the market with both screening and aspirating capability. He has sold them for several years and installs them on nearly all dryers he sells. He reports that selling the KLEENair unit after selling the dryer is easy, once he explains what it does, how it does it, and how little it costs.

Our KLEENair Vacuum Grain Screener gives you a lot more VALUE for dollar spent than any other grain cleaner on the market. You get more for your money, both in terms of equipment and performance.

Our new SELF-POWERED KLEENair Vacuum Grain Screener was designed for situations where the KLEENair cannot be attached to the unload auger of a dryer. The SELF-POWERED unit is slightly over 8' long; it includes a 2' long inlet auger and a 2' long discharge auger. It has REMOVABLE SCREEN sections and screens are available in any screen size you may require. It comes complete with shielded grain inlet, grain discharge outlet, and electric drive motor with drive kit. The three HP "Little Bertha" Blower and Motor Assembly are recommended for this unit. The ASPIRATOR Kit and the VAC CLEANUP ACCESSORY KIT are available for the SELF-POWERED units.

For more information, please call us at 1-800-642-6005 or visit our website at www.productionsales.com. 

Meyer's Equipment Mfg. Corp.

The future of agricultural technology takes a large step forward with the arrival of the revolutionary Meyer's VB750 & VB560 Twin Twister Manure Spreader. The Twin Twister's unique vertical beater design creates a wider, more even spread pattern. You'll make fewer trips to the same field resulting in less soil compaction while saving you in time and money!

With over 40 years of experience in the design and development of the Meyer's product manure spreaders,

Meyer's Equipment Manufacturing



Corporation has the answer for your manure handling needs.

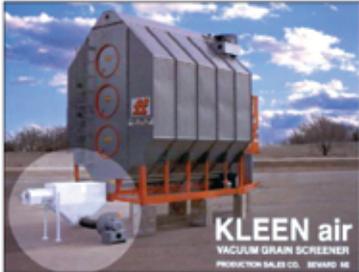
Meyer's EMC's extensive product line of Meyer's Heavy-Duty Spreaders are more than machinery. The Meyer's big load carrying capacity manure spreaders provide a more efficient use of your time and a better return on your equipment investment. They are an investment in the future of your business. At Meyer's Equipment Manufacturing Corp., we are committed to building a quality product at a fair price. Our Manure Spreaders are not massed produced. When you purchase a Meyer's Box Spreader you can expect quality and dependability! 



Production Sales Company

1387 Progressive Rd. P.O. Box 328
Seward Nebraska 68434

1-800-642-6005



A very simple way to screen corn out of the dryer.

Screen grain from anywhere with the Self-Powered stand alone unit.

Removes Fines and Bee's Wings.

Moves screenings 100' in any direction.



Dealer Inquiries Invited

8" or 10" Auger version.

High pressure Direct Drive Blower

1 HP or 3 HP Blowers.

Single Phase or Three Phase

Heavy Duty Flighting

Nylon Bristle Brush Tips.

Visit our Web Page

www.productionsales.com

AMERICAN WHOLESALE CO.

Used/New Walk-In-Coolers
Freezer Boxes • Refrigeration
Systems • Equipment
Large Inventory – All Sizes
Buy • Sell • Nationwide
Wholesale Prices

(216) 426-8882

Fax: (216) 426-8883

Email: awcco@aol.com

www.awrco.com



6 TON SMC STAINLESS STEEL FERTILIZER SPREADER

SMC Pull Spreaders

Available in 5, 6 and 8 Ton Capacities

- Simple Design, Durable Construction
- Economical
- Flexibility for Special Needs
- Service You Can Bank On

Dealers
Wanted!

SIMONSEN
INDUSTRIES, INC.

P.O. Box 247
Quimby, IA 51049

(712) 445-2211 • Fax (712) 445-2626

Call Toll Free: 1-800-831-4860

www.simonsen-industries.com



Not getting the same amount of bushels through your airlock as you used to?

Solution:

- Complete Airlock Remanufacturing
- Increases Efficiency by reducing blowby

Assurance:



- Free evaluation & quotation
- Guaranteed to perform like new at a fraction of the cost



Rotary Airlock, L.L.C.

800-883-8955

815-626-5366 Fax

www.rotaryairlock.com

sales@rotaryairlock.com

Reman Balestacker

THE FARMER'S TIME MACHINE

The most efficient method of square bale picking and stacking available on the market today. Timing is everything especially when it comes to hay and straw cash cropping. There are so many variables like weather, temperature and time, so getting high quality forage off the field and into storage FAST means higher profits for your business. With the Reman Balestacker being one of the fastest machines on the market, reaching your highest profits is possible. No wonder farmers call it the TIME MACHINE.

The Reman Balestacker picks up 3x3, 3x4 and 4x4 square bales effortlessly with no adjustments between different length of bales. The

Reman Balestacker picks up and stacks into a tight free standing stack every time. On the strings or off



the strings, the Reman Balestacker picks up following the paths of the baler avoiding cross tracking over

bumpy terrain at up to 120 bales per hour with a 3 km drive from field to stacking site. The benefits and bales really stack up.

Each feature of the Reman Balestacker is designed with the end user in mind. From the easy to use ergonomic handheld controller to the durability and safety of the machine, the Reman Balestacker was designed and build for you. So whether you are trying to maintain the moisture of your forage or beat the rain to your hay, the Reman Balestacker is the answer for you.

For more information contact Reman sales and service, Listowel, Ontario, Canada 519-291-5035 or visit the website balestacker.com

Dyna Flo, Inc. Announces

The Dyna Flo Pump

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

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

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

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



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

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

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

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

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

For more information about this pump, visit www.dynaflopump.com

POWER LOCK



Electric Tarp Systems for Grain Trailers

- Simply press a switch
- Tighter tarp-longer tarp life
- Easily converts back to manual
- Easy installation
- Electric Conversion kit available for most manual roll tarps

Proven most durable in windy operation!

Wagon Master Roll Tarp



- Available with trussed flat bows
- Trussed bows on wider wagons
- Standard with front roll return Assy
- Heavy duty 18 oz vinyl tarp
- Industry's strongest, aluminum end caps
- Rugged, yet lightweight, steel roll pipe

Manual Systems Available Replacement Tarps Available

www.aerindustries.com
800-535-8552

We Build The Hardest Working Trailers On The Market...



THE TRUCK BED

... We also build truck beds with design and construction recognized as the "Premier Bed" to this day.
Available 16'-26'



THE END DUMP

... Addressing end dump safety issues, with 45° angles where the floor joins the sides and in the front corners. Also, there is no place for a load to "hang-up". The load comes out smooth.
Available 30'-33'

THE AERCHAIN

... A trailer that hauls more, weighs less, and pulls easier than anything in its class.
20'-40', 99" inside
Width, 86" Inside Height



STEEL MAX TRAILER

... Already recognized as the "Best Built" Chain Trailer on the market.
28'-30'x95" Inside Width



"A LEADER IN THE INDUSTRY"

South of hwy. 4 • Box 116 • Utica, KS 67584
Visit Us At www.aeroswint.com

888-883-3269

...And You Need A Trailer That Works Harder Than You Do.

INTRODUCING THE DYNA FLO PUMP



The newest flood pump from Dyna Flo Inc.



Pump Uses:

Flood Control
Flood Rice Ponds
Flood Cranberry Ponds
Empty Sloughs
Transfer Water

- Pumps up to 3000 GPM at 15 ft. of lift
- Adjustable swivel on the hitch
- Spring loaded grease cups for water contaminant resistance
- Operates at 1000 RPM
- 12" x 50' hoses with ring lock ends

NEW

Bottom Feeder Attachment
Enables longer pumping in shallow water levels



SEE OUR WEBSITE FOR MORE PICTURES & INFORMATION

Dyna Flo Pump, Inc.
Oakes, ND 58474 | 701-742-3223

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 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 impor-

tant 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 knowledge 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.

Thermocouples are the most widely used temperature sensor for several reasons. 1) They are rugged, low-cost, dependable, and accurate. 2) The measurement is a point measurement with fairly quick response to temperature change. 3) Watching the trend (changes) of the temperatures provides a clear indication of unusual temperature activity.

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.

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

Roller Mill
"The Stockman's Choice"

- 18" diameter rolls
- Hardened rolls 58 Rockwell "C"
- Dynamically balanced rolls
- Leaf spring roll protection
- Worm drive roll adjustment
- Capacity up to 4000 bu/hr.
- Auger or conveyor discharge
- PTO or electric



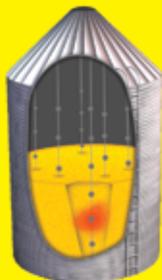
North Central Steel
1349 Golden Road, Minneapolis, KS. 67467
1-800-582-0106



Got Grain?

Grain Temp Monitoring Systems

- **A vital tool** commercial elevators have been using for years.
- **Portable, Computerized & Wireless** systems available.
- **Quickly detect** changing grain conditions.
- TSGC cables are **reliable, made tough and built to last!**
- **Economically priced** and proudly made in the **U.S.A.**

FOR A FREE QUOTE, CALL 800-438-8367

Tri-States Grain Conditioning, Inc.
"The Vital Link To Preserving Your Profits"
P.O. Box 468 Spirit Lake, Iowa 51360
712-336-0199 Fax 712-336-0299 Email Tsgc@TsgcInc.com

See "The Vital Link" at www.TsgcInc.com

Sales • Service • Installation • Free Tech Support

Livestock Steel

Livestock Steel is owned and operated by Tom, Terry and a team of associates willing to service and answer your guardrail needs and questions. Tom and Terry alone have 20+ years of combined experience to help you choose the guardrail product that fits your specific needs. From our HQ in the Carolinas, we keep the flow of used highway guardrail products coming to our customers from our yards all across the nation. We take pride in offering affordable, superior products to our customers who are ready for a lifetime livestock fence. We believe that used guardrail is the most economical long term solution for corral fencing and other fencing applications.

Today, with our newly developed Gal-

vanized I-Beam fence post option, we can now offer both used guardrail and LONG-lasting I-beam posts. This option now gives our customers the abil-



ity to transform their lifetime guardrail fence PANEL into a permanent, "maintenance free," fence installation. We offer the livestock industry the strength it needs to build one-time, life-time, real-

life livestock fencing solutions.

We at Livestock Steel desire to put quality products into the hands of every satisfied customer. Livestock Steel offers more than a dozen choices of Guardrail Fencing Solutions. We offer custom guardrail fencing solutions to customers who give attention to special applications or products. Check out www.LIVESTOCKSTEEL.com for more info on what we offer; Also look for our always updating photo gallery of our customer's installations. You can also download actual plan examples installed by University livestock programs on our website. If you have any questions about Used Guardrail please call us. We look forward to hearing from you!



Pearson's Continues Keeping Pace With Livestock Industry's Demands In 2011

Pearson Livestock Equipment is well into its 48th year of producing quality equipment for the livestock industry. Our "Original Hydraulic Chute" has been on the market for 8 years and has been very successful! Last year we designed a kit to make any Pearson chute, ten years old or newer, into a complete hydraulic chute. It is composed of a hydraulic headsweep, headgate, squeeze and tailgate, or any combination thereof. This kit is powered by a 2-horse 110v or 220v motor but can be powered by our 8 or 13 horse Honda engine hydraulic unit, a hydraulic bale bed, skid-steer or most tractors. This kit has been received with great excitement!

We also have a hydraulic kit to adjust our alleys. The power is supplied by using the power beyond port from the hydraulic chute. The alley valve is mounted top front center, where it can be actuated from the catwalk on either side of alley. The screw jack which adjusts the alley is replaced by a hydraulic cylinder, which will adjust the inside width of the alley from 30" down to 16".

This simple hydraulic package can be put on any of our alleys that are equipped with the screw jack for adjustment. If you

already have a hydraulic chute you may put our alley behind it and come from your chute valves, from the power beyond port, to the alley valve.

Pearson's offers a complete line of cattle working equipment, including our "Original" straight-side manual chute and automatic headgate, AI cage, working tubs and alleys. We also



produce a complete line of bison handling equipment. Quality products and customer satisfaction continue to be our goal.

For more information on any of our equipment or inquiries about a dealership or distributorship, call (308) 645-2231 or email us at info@pearsonlivestockeq.com





LIVESTOCK STEEL

GOT GUARDRAIL?
GUARDRAIL PRODUCTS = BUILD IT ONCE



THE ULTIMATE
Beef/Dairy Panel: Corral/Blinder-Windbreak-Chute
 12" Guardrail, Straight, USED:
 26 ft and 13.5 ft Available

Save \$\$\$\$ w/ Undamaged
 Used Highway Guardrail

STRONG STEEL POST: 8' USED
 8ft x 6" x 4" = Standard I-Beam
 7ft - 14ft Steel Post Available
 call for quote.

877-724-5411
 See Products Online At:
www.LIVESTOCKSTEEL.com

PEARSON
 "DESIGNED FOR CATTLEMEN
 BY CATTLEMEN"



Complete Working Facilities for Cattle and Bison
*Heavy, rugged construction
 Built to last!*

National Distributor for Tru-Test Scales

INFORMATION OR BROCHURES:
PEARSON'S, INC.
 90 COURT ST.
 THEDFORD, NE 69166
 (308) 645-2231




STOP

Don't Vaccinate Without It!
MULTIMIN[®] 90
SURE Trace Mineral Supply by Timed Injection!

It's time to add MULTIMIN 90 to your animal health management program!



Available in 100 ml & 500 ml

MULTIMIN 90
Ask for it by name!

A recent study injecting **MULTIMIN** at the same time as a modified live virus (MLV) vaccine revealed very useful data for cattle producers.

- 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
NEW WEBSITE
www.multimininglobal.com
 1-866-269-6467 • 1-970-372-2302



Protected by U.S. Patent # 7,285,292.
 Copyright © 2011. All Rights Reserved. AM 19949 06/11

Tom Balding Bits & Spurs

By Gavin Ehringer

At his shop just outside of downtown Sheridan, Tom Balding heats bars of steel and bends the arms to form a “U” shape - one of the first steps in mak-

ing mouthpieces for one of his famed western bits. Hundreds of steps will follow before the piece is polished and boxed up, destined for a horseman in Texas, a collector in Italy, or perhaps

as the trophy prize for a barrel racing competition in California.

Balding came to Sheridan, Wyo., three decades ago. After fabricating precision parts for the Southern California aerospace industry, he made the life-changing decision to move to Sheridan. An interest in horses was one motivating factor. When a local horsewoman asked him to repair her broken bit, Balding’s destiny was forever changed.

“When I came here, I knew I wanted to do something in the western horse world, perhaps make saddles,” he said. “But I hadn’t really thought about making bits and spurs until that moment.”

Today, Balding’s bits and spurs are highly regarded, both in the U.S. and abroad. Top performance horse riders like recent National Reining Horse Association Futurity winner Andrea Fappani and 2009 National Reined Cowhorse Assoc. Snaffle Bit Futurity Champion Zane Davis swear by Balding’s hand-forged works of art.

Despite producing a large volume of bits and spurs each year, the Balding shop is a modest affair. He shares the shop with three other craftsmen, all painstakingly trained by the master metal worker. Each bit or spur is custom made and entirely hand-crafted. Whether a customer wants special engraving work on a bit or metal overlays with a customer’s name, ranch brand or logo on a pair of spurs, the shop can make it happen.

“Our products last a lifetime, and I expect many are passed down through generations,” says Balding. “And we always make time for customers to tour our shop and see how we make things.”

Please feel free to call with any questions, 307-672-8459, check us out on the web www.tombalding.com or follow us on Facebook.

WORKING BITS FOR AMERICA'S FARMERS & RANCHERS.



Tom Balding
Bits & Spurs
Celebrating 27 Years

American Made



Check for daily posts on facebook

*Plain, Custom, or Trophy ...
Bits, Spurs, or Buckles*



Double Cross mouthpiece
Medium S Shank



Tom's heavy West Texas Style spur

- Largest selection of bits and spurs
- Custom mouthpiece widths
- Hot forged heelbands for the perfect fit
- Custom buckles and jewelry
- Gift Certificates
- Personalized with names, brands, and initials
- Youth spurs make the perfect gift
- Made entirely in Sheridan, WY

www.tombalding.com 307-672-8459



Diamond W Corral



Oklahoman
5-panel unit • 1,625 sq. ft.



Texan
6-panel unit • 1,850 sq. ft.

FIELD SORTING JUST GOT BETTER
PORTABLE SORTING OR GATHERING SETUP!
NO MORE gathering, loading, unloading, sorting, then RELOADING!

- By RL Wilson, designer of original Wilson Wheel Corral
- Two styles to choose from
- Portable gooseneck unit that splits
- 6' x 33.4" center alleyway
- (2) 6' double gates at each end
- Solar 12v battery powers hydraulic system to lift up & down

MANUFACTURED BY:

Burlington Welding, LLC

www.diamondwcorrals.com

PATENT PENDING

580-431-2556

For information on any Purina Mills® feed or to find the Purina Mills dealer nearest you, visit www.purinamills.com or call 1-800-227-8941.

IDAHO

Primeland Country Store-Craigmont

101 E. Main • Craigmont, ID
(208) 924-5281 • www.primelandcoop.com
(Omolene®)

Primeland Country Store-Cottonwood

402 Main St. • Cottonwood, ID
(208) 962-3341 • www.primelandcoop.com
(Omolene®)

Primeland Country Store-Grangeville

1001 N. A St. • Grangeville, ID
(208) 983-0210 • www.primelandcoop.com
(Omolene®)

Primeland Country Store-Lewiston

1200 Snake River Ave. • Lewiston ID
(208) 743-8602 • www.primelandcoop.com
(Omolene®)

Primeland Country Store-Moscow

2555 Hwy. 95 S. • Moscow, ID
(208) 882-7581 • www.primelandcoop.com (Omolene®)

IOWA

Sperry Union Store Inc.

11721 Locust St. • Sperry, IA
(800) 728-2169 • www.sperryunionstore.com
(Accuration®)

MONTANA

Fleet Supply

1401 25th Ave. N.E. • Black Eagle, MT • (406) 761-1451
(Omolene®)

SOUTH DAKOTA

Central Farmers Cooperative

113 E. Walker • Montrose, SD
(605) 363-5360 • (800) 419-2605
(Accuration®)

Sioux Nation

504 N. Deadwood • Fort Pierre, SD
(605) 223-3101 • (800) 658-3657
(Accuration®)

WASHINGTON

Ag Supply Company

1115 N. Wenatchee Ave. • Wenatchee, WA
(800) 774-8188 • www.ag-supply.net
(Omolene®)

Primeland Country Store

E. 102 Front St. • St. John, WA • (509) 648-3480
(Omolene®)

SEE WHAT THE CHECKERBOARD CAN DO



www.purinamills.com

Purina Mills®

MIRACO

Livestock Water Systems

Miraco offers innovative, energy-efficient, fresh, cool water systems designed to be the best in the business.



5 Year
Guarantee

Over 30 Models Available! Plus,
Miraco makes installation easy!
For a free catalog, call us today!

BIGspring
Livestock Waterers
MiraFount
Energy Free Waterers

A WATER SYSTEM FOR EVERY NEED

P.O. Box 686 • Grinnell, IA 50112 • 641-236-5822 • Toll-Free: 800-541-7866

www.miraco.com

National Alpaca Farm Days Celebrated Nationwide

Members of the Alpaca Owners and Breeders Association (AOBA) are inviting the public to visit their farms and ranches on National Alpaca Farm Days on September 24th and 25th. This is a unique opportunity for the public to explore the many aspects of the alpaca livestock industry in the United States and Canada.

From meeting these beautiful, inquisitive animals in person to experiencing luxurious alpaca products at individual farm stores, there will truly be something for everyone.

Visitors can also learn how alpacas are a green business opportunity, as they are animals that are sensitive to their environment in every respect!

While most alpaca farms welcome visitors throughout the year, National Alpaca Farm Days are sure to include special activities and educational opportunities.

About Alpacas

Alpacas, cousins to the llama, are beautiful, intelligent animals native to the Andean Mountain range of South America, particularly Peru, Bolivia, and Chile. The United States first commercially imported alpacas in 1984. There are now over 160,000 ARI (Alpaca Registry, Inc.) registered alpacas in North America.

There are two types of alpacas in the United States today. Although almost physically identical, what distinguishes the two types of alpacas is their fiber. The Huacaya (wa-Ki'-ah) is the more common of the two and has a fluffy appearance. The Suri (SUR-ee) is the rarer of the two and has fiber that resembles pencil-locks.

Adult alpacas stand at approximately 36 inches at the withers and generally weigh between 150 and 200 pounds. They do not have horns, hooves, claws or incisors. Alpacas are alert, intelligent, curious, and predictable. Social animals that seek companionship, they communicate most commonly by softly humming.

It's all about the fiber!

Many fiber enthusiasts find that the alpaca business is ideal for them. Alpacas are shorn every year. Most breeders

shear in the spring. Shorn with sharp, well-oiled sheep clippers, alpacas can stand upright or be laid down. One shearing, typically ten to fifteen minutes per animal, produces approximately five to ten pounds of fiber. Variables such as age, genetics, environment and nutrition all influence fiber production.

After alpacas are shorn, there are several options to process the fiber. Both the United States and Canada process alpaca fiber in small and medium-sized lots. One advantage of sending fiber to these mills is that when the yarn is returned, the specific product of a specific alpaca can easily be identified. This is a strong selling point in the cottage industry. An alternative to this is to send the alpaca fiber to a regional or national co-op. Co-ops pool fleeces and collectively manufacture sweaters, hats, scarves, gloves, socks, and other items for wholesale and retail distribution.

Two distinct alpaca breeds create two types of fiber. Huacaya (wa-Ki'-ah) alpacas grow soft, spongy fiber. Huacayas have a corrugated crimp that holds the finished yarn together. Once spun, this dense fleece makes a very soft, yet durable, string. Huacaya fiber is commonly used in knit and crochet applications, but can also be used to fashion felt or quilt batting. The Suri (SUR-ee) has the same body structure as the huacaya but its fleece grows as long, silky locks. Suri fiber is smooth, shiny and has no crimp. Suri fiber grows to great lengths, creating majestic waves, swirling about the alpaca's body as it moves. When processed, suri is commonly used in fabric or woven applications, utilizing the weft and warp of a loom to hold the fibers in place. The most prominent Italian suits are sometimes crafted from suri alpaca fleece.

The softness of alpaca fiber is a result of a fine fiber diameter, which can be measured on a micron scale. A human hair has a micron level of approximately 100 whereas alpaca can range from 16 microns (in the form of Royal Baby Alpaca) through the 20's (for Superfine Alpaca). Micron levels determine the nature of the finished products. Baby Alpaca and low micron fibers are used to create finished goods worn next to the skin, for a sub-

limely soft and luxurious feel. Higher micron fibers create finished goods too, but typically produce outerwear and apparel that can be layered. The benefits of warmth and durability, however, remain. Course fibers, not suited to wear next to the body, have many applications. Course fibers can be felted, used as lining between other fabrics, or can create the most exclusive rugs.

Making alpaca fiber even more desirable, it is organic and naturally flame retardant. Containing no lanolin, this fiber is also naturally hypoallergenic. Most people who are sensitive to wool find that they can wear alpaca without the itching or irritation they feel from wool because alpaca fiber is smooth. Alpaca fiber comes in 22 natural colors, yet can be dyed any desired shade.

Because of its soft texture, alpaca fiber is sometimes compared to cashmere. Alpaca is stronger, warmer and yet lighter than wool. This is because alpaca fiber has a hollow core that provides it great thermal properties within extremely lightweight garments. This characteristic also allows alpaca clothing to breathe and wear more comfortably during any season.

Additional performance characteristics include: stretch, water repellency, and odor reduction. For travelers, clothing made from alpaca is desirable because it is wrinkle-resistant.

In today's marketplace, alpaca is used to create long-lasting fashions that are both useful and desirable. Alpaca fashions are present in some of the most prominent stores and catalogs throughout the United States and elsewhere around the world. Its use by designers is increasing, as they recognize the many positive attributes of alpaca. Wholesale distributors provide convenient opportunities for retail buying agents to add the latest alpaca fashions to their store inventories.

Green Alpacas?

Alpacas come in 22 natural colors, but they are all green!

Sensitive to their environment in every respect, alpacas have soft padded feet instead of hooves and can leave even the most delicate terrain undamaged. Dam-

ADVERTISERS INDEX

ADVERTISER	WEBSITE	PAGE	ADVERTISER	WEBSITE	PAGE
2 Bar Angus	www.2barangus.com	37	New Horizon Corporation	www.newhorizoncorp.com	20
Ag Supply Company	www.ag-supply.net	33	North Central Steel		29
A Link, Inc.	www.biogoldonline.com	12	North Dakota Certified Seed Potatoes Assoc.	www.ndseed.com	10
Aero Industries	www.aeroindustries.com	27	Northwest Tillers, Inc	www.nwtiller.com	9
Aeroswint	www.aeroswint.net	27	NorthWestern Energy		9
Alfalfa Pellets, LLC		36	Norwood Sales, Inc.	www.norwoodsales.com	39
American Wholesale Co	www.awrco.com	5	OK Ranch Inc	www.sheepfeedlot.com	36
Art's Way Manufacturing Co Inc	www.artsway-mfg.com	25	Pawnee Buttes Seed Inc.	www.pawneebuttesseed.com	13
Bakko Brothers	www.bakkobros.com	36	Pearson Livestock Equipment		31
Bakko Industries, Inc.	www.thejugwaterer.com	36	Phase-A-Matic	www.phase-a-matic.com	23
Bio Till	www.saddlebutte.com/covercrops.aspx	11	Pinnacle Stove Sales	www.pinnaclestove.com	19
Burlington Welding LLC	www.diamondwcorrals.com	32	PolyExcel, LLC	www.polyexcel.com	11
Central Farmers Cooperative	www.purinamills.com	33	Port - A - Hut	www.port-a-hut.com	17
Colorado Certified Seed Potatoes	www.coloradopotato.org/seed	7	Primeland Country Stores	www.primelandcoop.com	33
Colorado Hay Probe	www.udyone.com	36	Production Sales Co.	www.productionsales.com	25
Dakota Gasification Co	www.dakotagas.com	38	Ron's Manufacturing	www.ronsmfg.com	15
Dakota Grills	www.dakotagrills.com	15	Rotary Airlock, LLC	www.rotaryairlock.com	25
Dakotah Toys, Ltd		37	Scimetric - Kaput Products	www.kaputproducts.com	17
Davey - Joans		23	Scott Ertl Products LLC	www.ertlizer.com	37
Dyna Flo Pump Inc		27	Sea Minerals FA	www.seamineralsfa.com	15
Edmonton Potato Growers LTD	www.epg.ab.ca	10	Simonsen Industrial Inc	www.simonsen-industries.com	25
EFS Distributing	www.efsdistributing.com	37	Sioux Nation	www.purinamills.com	33
Emerson Manufacturing Corporation	www.emersonjacks.com	22	Skinner Harvesting LLC	www.skinnerharvesting.com	36
Fleet Supply Inc		33	Sperry Union Store, Inc.	www.sperryunionstore.com	33
H & H Farms		9	Steve's Welding & Repair		5
H & M Gopher Control	www.handmgophercontrol.com	21	Stock Auction Company	www.bigiron.com	37
Herrs Machine	www.herrsmachine.com	22	Texas Plant & Soil Lab	www.texasplantandsoilab.com	39
Hoskins Manufacturing Co. Inc.	www.hoskins-mfg.com	37	The Profitable Grain Farmer	www.grainsystem.com	37
Hydroscreen Inc.	www.hydroscreeninc.com	15	Tire Town Inc		9
HydroStar LLC	www.makehydrogenerators.com	18	Tjernagel Family Livestock LLP		36
InoSol	www.inosol.com	20	Tom Balding Bits & Spurs	www.tombalding.com	32
Jim Boggs		37	TSGC Inc	www.tsgcinc.com	29
John Construction	www.johnconstruction.net	21	Two Guys Communications Inc.	www.twoguycomm.com	19
Livestock Steel	www.livestocksteel.com	31	Udy Corp.	www.udyone.com	36
Lone Star Enterprises Inc.	www.lonestarenterprises.com	36	United Country Marketing Services	www.sdlandauction.com	12
Lost Valley Fence		36	United Power	www.unitedpower.com	36
Maughan Farms, Inc		10	URAM Fertilizer Synergy		11
Meyer's Equipment Mfg. Corp.	www.emcspreaders.com	3	Vets Plus	www.probios.com	40
Midwest Supplies	www.midwestsupplies.com	18	VP Buildings	www.vp.com/ad/WFR01211	16
Mikes Windmill Shop	www.mikeswindmillshop.com	16	Walinga USA, Inc.	www.walinga.com	2
Miraco	www.miraco.com	33	Zapata Seed Co.	www.zapataseedcompany.com	7
Multi Min USA, Inc	www.multimininglobal.com	31			

age to topsoil decreases long-term soil fertility and in the process, the soil is eroded and weed invasion is encouraged.

Alpacas prefer to eat tender grasses, which they do not pull up by the roots. Lacking upper teeth, alpacas “cut” the grass with their bottom teeth and upper palate. This vegetation cutting encourages the plants’ growth. Because they are modified ruminants with a three-compartment stomach, alpacas convert grass and hay to energy very efficiently, and stop eating when they are full, further preserving the landscape on which they live.

However, alpacas do not mind eating brush, fallen leaves and other “undesirable” vegetation, leaving the “good

stuff” for species that do not have the stomach to digest such roughage.

Alpacas’ pellet-like droppings are PH balanced, and an excellent, natural, slow release, low odor fertilizer. This rich fertilizer is perfect for growing fruits and vegetables. Because alpacas consolidate their feces in one or two communal spots in the pasture, it is easy to collect and compost, and the spread of parasites is controlled.

While alpacas are environmentally friendly ... and even beneficial... to the land, what makes them even more “green” is the fiber they produce. No chemicals are employed either during feeding or during the industrial production of alpaca fleece into fiber. If dying

is desired, only 20% of a normal dye quantity is required.

All fiber from an alpaca can be used. Even the fiber from the lower legs, belly, neck, etc is being used for things such as natural weed mats to be placed around trees. Alpaca fiber is biodegradable.

Alpacas require no insecticides, herbicides and fertilizers which pollute the groundwater.

An ever-growing American herd and source of fiber is on the horizon for this sustainable industry. To learn more about the alpaca industry visit www.alpacainfo.com.

To find out more about National Alpaca Farm Days visit www.NationalAlpaca-FarmDays.com

AGRICULTURE



Lone Star Enterprises, Inc.

New, Custom Built, and Remanufactured Roller Mills and Roller-Grinders, Mill Accessories, Parts, and Service. Electric Motor Sales and Service Also Available.

Phone: (605) 647-3001 or

Toll Free: 1-866-393-1116

Fax: (605) 647-1966

Or check us out online at

www.LoneStarEnterprises.com

AGRICULTURE

JUG



JUG Livestock Waterers Bakko Industries, Inc.

Glenwood, MN 56334

Email:

carmen@thejugwaterer.com

www.thejugwaterer.com

AGRICULTURE

Skinner Harvesting, LLC

Individual wanted for custom harvesting operation. Guaranteed monthly salary, lodging and home-cooked meals provided.

Contact Dan Skinner

Ph: 620.343.8140 Cell: 620.340.2843

www.SkinnerHarvesting.com

GOAT-SHEEP

Tjernagel Family Livestock LLP

Buying All Classes of Sheep & Goats

Pickup & Delivery Available

3061 390th St., P.O. Box 87
Story City, IA 50248

515-733-2390 Office

515-231-2008 Mark

73636 White Pole Rd.

Anita, IA 50020

712-762-3296 Office

712-249-3319 Ralph

205 Grove St., Royal, IA 51357

712-933-2637 Lori

tjlivestock@iowatelecom.net

Bakko Bros. Haybuster Tub Grinders

Featured Available Grinders

- Late model/low hr. used truck-mounted grinders with or w/o grapple
- Variety of older model used grinders available
 - Used Haybuster H1 100E engine mount grinders available
 - Used Haybuster PTO tub grinders in stock
 - Used Mighty Giant grinders also available

We specialize in selling tub grinders, parts & service to the grinding industry!

We have available a fine selection of new & used truck-mounted, trailer & PTO grinders.

See them at:

bakkobros.com

North American Distributor of Haybuster Engine Mount Grinders

Call John Renz, Sales Manager, for information

CELL: 712.249.5951

UDY Corporation
Scientific Equipment
5 models to choose from.

Colorado Hay Probe

Manufactured by UDY Corporation

Colorado Hay Probe Model 2001

Stainless Steel Piercing Tip
Re-Sharpener
Replaceable

Collection Chamber Holds Approx. 1/2 Pound Perfect for the Lab

Removable End Cap

Push Rod

Staring Tip Guard

Durable Anodized Aluminum Alloy

VISA

MasterCard

Colorado Hay Probe
Popular "Push In" Design
Model 2001-See website for pricing
www.udycorp.com
UDY Corporation
201 Rome Court, • Fort Collins, CO 80524
Voice: 970.482.2060 • Fax: 970.482.2067

Lost Valley Fence

"For All Your Fencing Needs."

Barbed wire, rail,
wind break, corrals,
fence repair

Free Estimates

Tom: 406-403-8749

Fairfield, MT



24-Hour Emergency Dispatch

Brighton • Ft. Lupton • Coal Creek

(303) 659-0551

(800) 468-8809

www.unitedpower.com

Custom Sheep Feedlot

Lambs & Ewes
to feed, fatten & grow.

Kyle or Dale Shippy

605-842-0935

or

605-842-3967

www.sheepfeedlot.com

HAY & FORAGE

Alfalfa Pellets sun cured 1/4" and alfalfa meal, 17% protein; Chopped alfalfa; We Buy & Sell Alfalfa.

Call: 620-793-7701

BEEF-DAIRY

COMING SOON

To a pasture near you

2 Bar Angus

BULLS • FEMALES • EMBRYOS • SEMEN

Annual Sale Oct. 1, 2011

Selling 100 females & 35-20 +

Month old bulls with average \$ beef \$75

1-877/2-BAR-ANG
806-344-7444

www.2BARANGUS.COM

BEEF-DAIRY

KEEP ICE OUT

HOSKINS
AUTOMATIC
WATERERS

Energy Efficient,
Stainless Steel
Tanks

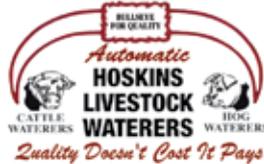


SELECT DEALERSHIPS
& DISTRIBUTORSHIPS

AVAILABLE

36" model
shown and
models available
up to
120" long

HOSKINS MFG. CO., INC.
PO Box 101 • Hoskins, NE 68740
800-658-4020 • 402-565-4420
www.hoskins-mfg.com



BEEF-DAIRY

THE AMAZING HAY\$AVER



U.S. Patent No. 5158040

Adjustable To 3 Different Sizes

E.F.S. Distributing
800-441-5365

2285 230th Street • Early, IA 50535

www.efsdistributing.com

EQUIPMENT

Is **STRAY VOLTAGE** the unwelcome visitor on the premises? Now there is an affordable, reliable way to deal with it.

The ERTLIZER®

Stray Voltage Device

Providing solutions for Stray Voltage,
Ground Currents and Electrical Pollution

Scott Ertl Products, LLC

www.ertlizer.com

715-305-2387

EQUIPMENT

FOR SALE: 2010 Commercial Compost Turner, 12-foot

- Sims drum plan
- Ford in-line 6 diesel engine
- Two Char-Lyn motors turn drum 300 rpm
- Two Char-Lyn motors power dual wheels
- Hydraulic pump 80 gal/min
- Exceptionally rugged construction
- Hydraulic power allows infinitely slow speeds
- \$180,000

Contact: Jim & Lynda Boggs

jimboggs@bellsouth.net

706-234-5842

GRAIN MARKETING

DISCOVER THE SECRET!

Accurately Forecast Grain Prices!

Call 800-800-4960 (ext 1494)

for a free recorded message
or visit

www.GrainSystem.com

YOUR BUSINESS

THE MARKETPLACE WORKS!

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

AGRICULTURE

Dakota Toys, Ltd.

SEND \$3.50
FOR A
CATALOG

Farm Toy Parts
including Pedal Tractor Parts -

44718 South Dakota Hwy. 34 • Madison, SD 57042

Telephone: 605-256-6676

Fax: 605-256-9093

Email: daktoys@yahoo.com

EQUIPMENT

****SELL AT AUCTION****

Farm Machinery, Construction Equipment, Trucks, Fleet Vehicles

Sell Your Equipment with BigIron.com

BIG IRON

STOCK AUCTION COMPANY
Quality Equipment Auctioneers

- Online Internet Unreserved Auctions •
- Certified Big Iron Sales Representatives •

1-800 WE SELL 8 • www.BigIron.com

PRODUCING FERTILIZERS FROM LIGNITE COAL

Dakota Gasification Company produces DakSul 45 Ammonium Sulfate and Agricultural Anhydrous Ammonia

The Great Plains Synfuels Plant near Beulah, ND is owned by the region's electric cooperatives. The same Lignite coal that has provided reliable electricity for more than 30 years is now helping to further strengthen our rural economy by producing fertilizers that add value to agriculture, provide jobs, and a clean environment.

FOR ANHYDROUS AMMONIA CONTACT:
Tara Schoenwald Vesey or Steve Liebelt at
888-342-3378 or Fax 701-221-4450

FOR DAKSUL 45 AMMONIUM SULFATE CONTACT:
SALES AGENT: H.J. Baker & Bro., Inc.

Westport, CT 203-682-9200 — Fax : 203-227-8351
Naperville, IL 888-457-8555 — Fax: 630-527-8075
Fresno, CA 800-992-2888 — Fax: 559-227-0115

DAKOTA GASIFICATION COMPANY

1600 East Interstate Avenue
P.O. Box 5540
Bismarck, ND 58506-5540

Cleaner Skies
DakSul 45
21-0-0-24S Ammonium Sulfate
A product of Dakota Gasification Company
To Greener Fields



**DAKOTA
GASIFICATION
COMPANY**
dakotagas.com



Wheatheart offers a complete line of **Heavy Duty & Hard Hitting** fencing equipment designed to make fencing jobs safer, faster and more efficient. Wheatheart post pounders include conveniently located joystick controls and four way tilt mast with a post hugger. Drive wood or steel posts up to 12" in diameter.



Wheatheart's SA series of swing-away, portable grain augers combine high performance and quality with the convenience of a low profile swing hopper and hydraulic scissor lift.



1-800-446-0316
www.norwoodsales.com



www.wheatheart.com

NOT LIKE THE REST OF THE BOYS

Our Exclusive Soil Testing Method is **PLANT BASED – NOT SOIL BASED!**
That's why it's accurate for EVERY SOIL TYPE on the planet.
Find out how you can use less fertilizer and water –
but get excellent crop results!

...and now offering the

SOLVITA[®] SOIL – COMPOST – MANURE – GRAIN
Controlled Laboratory Tests

We've been making better crops and fixing problems for many different kinds of growers around the World for 73 years – and we're really good at it!

A FULL SERVICE
SOIL – PLANT – WATER – COMPOST – FERTILIZER – HEAVY METALS
ANALYTICAL AND CONSULTING AGRONOMIC LABORATORY.



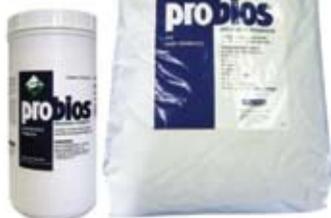
Find out about all the ways we can help you at
www.TexasPlantAndSoilLab.com

956-383-0739

5115 West Monte Cristo Road ♦ Edinburg, Texas 78541

Any species ...

Feed Granules, 50lb (CHR-403)
Dispersible Powder, 5lb (CHR-401)



Anytime of year ...



Bovine One Gel, 300cc (CHR-100)
Equine One Oral Gel, 30cc (CHR-700)

NOTHING ELSE COMPARES



probios®

www.probios.com • 800.468.3877



VETS PLUS, Inc.
Global Animal Health

Manufactured for and marketed by Vets Plus, Inc., under license from Chr. Hansen
*Probios is a registered trademark of Chr. Hansen, Inc.