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"Sunset Valley Dairy, Burns Oregon"

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"Lawen Pasture Pivots"

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agriculture

May 13 & 14, 2016 Horse and Mule Days

Pack up the family for a couple days of fun in May 2016. Be ready to be taken back in time with horse-drawn equipment demonstrations, wagon rides, and a country-style lunch. This event will allow you and the family to share in the fun of seeing horses demonstrate how each piece of equipment works and what it does. You will see plowing, harrowing, discing, haying, and round pen training as well as classes on packing, driving, training, and harnessing.

Don't forget to bring any horses or horse related items that you would like to sell during the auction. Let us know if you have items, equipment, or stock you want included in the auction. If you would like to advertise your items, please let us know ahead of time.

Bake sale items and lunch will be available as well as RV camping (no hook-ups).

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Bargain interest rates may be the optimistic news for farmers this year, as both long and short term rates remain at historic lows. But while many lenders cling to old Prime Plus formulas for establishing loan rates, others prove they can do better.

"Farmers can borrow substantially under 3%, and close to half of what Prime plus 1% formulas are," according to AGRIfinancial Services, a nationwide lender focusing exclusively on farm lending. Headquartered in Louisville, KY, the company provides an alternative way to borrowing for operating needs, as well as long term fixed rate mortgages.

"It's like a home equity loan, but for farmers," they say. AGRIfinancial Services works with California and western producers in all lines of the industry. Instead of crops or machinery for collateral, farmers use their real estate to back the loan. The resulting benefits pay off with customers.

Not only is the loan rate very low, but the product also offers a 10-year commitment where producers do not have to come in every year, or 3 years to renew the line. Additionally, the loan can be used for farm and business needs – not strictly operating expenses. The loan is priced based on a variable, LIBOR-indexed rate, but farmers can also choose to lock pieces of their debt to a fixed rate if they desire, he explained. All is done inside the loan, without the need for refinancing.

It's quite an amazing loan product and an example of what nontraditional lenders like AFS have been bringing to the market. The company is owned by CGB Enterprises, a major buyer and shipper of farm commodities.



Changing the face of fence construction

Construction of livestock fencing is undergoing rapid change. Just as nail guns replaced hammers on construction sites, so are heavy gauge staplers replacing the hammer in building fence.

Fencers are opting for the speed and reliability Stock-Ade staplers deliver. Crews are shaving hours of time off each job and leaving a cleaner fence row. The ST400 is the tool of choice, driving 9 gauge barbed staples up to 2" into any wood type. The depth adjuster on each tool allows a user to set a gap for tensioning of wire. Crews load the ST400 magazine and the accompanying fencer's tool belt with spare clips of staples, and they are attaching wire mesh over 10 times faster than hammering.



The ST315i, or Impulse stapler drives a 10 1/2" gauge staple (3.15mm) and most importantly frees the fencer from the air hose. Being cordless & powered by battery and framing fuel, the 315i has been a tremendous hit with utility crews and those that can't reach their fence lines with air, like those that have to be on horseback or in rougher mountain terrain.

The most common statement ranchers and fencers make is some form of, "where has this been all my life?!" At trade shows, customers will stand at the exhibit and proclaim the benefits of these staplers. The owners quickly become passionate fans wanting to share the knowledge of how these tools have changed the way they work.

The staples are all class 3 galvanized with divergent tips and the 9 gauge staples are barbed. In addition, Stock-Ade offers a mobile 155psi dual tank, gasoline powered air compressor with a Subaru engine designed to run two tools simultaneously.

Fencing tools have finally moved into the modern age and people are very pleased with how Stock-Ade staplers have improved the job. For more information, call Mike at (859) 619-4890 or visit the website at www.SchwarzEquipment.com



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Miracles of Balanced Plant Nutrition

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

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

There are several problems with this approach:

1. Much can happen to your fertilizer after it hits the ground to make it unavailable to the crop:
 - A. Your native soil chemistry can rapidly tie-up fertilizer components into chemical compounds which the plant is unable to absorb.
 - B. Irrigation water high in mineral salts neutralizes plant-absorbability of many fertilizers by changing their chemistries into plant-unavailable compounds.
 - C. Chemical interactions between the fertilizer components themselves can render them unavailable to the plant.
 - D. Fertilizer can be lost due to the weather – leaching due to heavy rain, high soil temperatures, etc.
 - E. Volatilization of Nitrogen into the atmosphere.

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

2. Crop nutritional demands normally vary widely throughout the growing season. The wrong fertilizer in the wrong form applied in the wrong place in the wrong amounts at the wrong time is simply wasted – along with your money – often leaching into nearby waterways. But worse – your crop ends up being malnourished resulting in yields and quality often far below your crop's potential.

And even worse, crop malnourishment results in a stressed crop, making it vulnerable to diseases and insects (requiring insecticides and fungicides) – and requiring more water. “Nature always eats the weakest with bugs and disease.”

So, you end up spending a whole lot more to get a lot less.

3. Standard soil testing methods used today (Mehlich III and others) by most labs extract nutrient compounds that are both plant-available and unavailable to be interpreted for subsequent recommendations to you. (Sidebar: Reports on some soils often show Phosphorus, Potassium, Calcium or Magnesium as being consistently adequate or high.) This means that the lab has to estimate (guess) what is actually available to your crop, based upon its experience with your soil and render fertilization recommendations

often based upon crop nutrition standards published in the early 1950s.

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

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

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

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

About 17 elements have been identified so far, as being necessary to plants – the number of which depends upon the plant. It has been only fairly recently that the importance of micronutrients (Iron, Copper, Zinc and Manganese) to plant health and quality started being talked about – and a few trace elements have been known for a while to be necessary for a few crops and/or their consumers. With ongoing research, discoveries are being made almost daily about the importance of heretofore ignored trace elements – most recently, SILICON.

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

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

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

When we encounter a field with disease or insect problems, the first thing we want to know about is the complete nutri-

Continued on page 10

How to Become a Beacon of Positivity and Change

Kimber L Russell

As a manager, one must understand who they are, what they represent, how they fit in with the culture of their community and company, as well as what motivates them. In return, we must challenge those who follow us to learn, embrace, and act upon the roads of development that led us to knowing what our purpose is in life personally and professionally. As a leader and manager there must be a collaboration and connection within a team. Being able to guide and develop individuals personally and professionally allows for deep relationships that yield efficiency, dedication, honesty, and growth.

Managers and leaders must acknowledge that the world is ever-changing and that we all have something to learn each and every day. Diversity and inclusion is what make relationships work; however, the foundation of leadership and work relationships stem from the acknowledgement that we are purposeful, that we are worthwhile, and that we value one another. These foundations are then fostered and grown by the giving and receiving of new skills, abilities, knowledge, and problem solving tendencies.

Actionable items that lead to finding out who your employees are and what drives them can be completed in five easy and efficient steps.

One- Have each team member complete a bucket list. In an open and comfortable environment, allow them to share. This allows management as well as employees to embrace similarities and differences of activities and relations to personality types.

Two- Promote work/life balance by encouraging team members to check items off of the list.

Three- Lead by example and get out in the world, check off some items, and make a difference.

Four- Don't let the passion die. Revisit the list every few months and add to it. Share with those closest to you to ensure that you are growing both personally and professionally.

Five- Forget the excuses, forget the what-ifs, and forget what doesn't help us grow. Hindrance is the worst enemy in creating and implementing change.

As a manager it is essential for one to lead by example. By implementing the five actionable items listed above and choosing to be present and engaged, managers promote a positive attitude while inside and outside the office. Not only does an employee need to rely on the strength of the manager but they also need to rely on the power of the manager's positivity and attitude.

"If I don't do it, someone else will." This simple phrase will always keep the manager and employee in the frame of mind that no one is irreplaceable and ninety-eight percent of change and productivity stems from a positive attitude. Attitudes are contagious; ensure that, as the manager or team leader, you are spreading an attitude that will do "good" and increase productivity, culture, cohesiveness, and trust.

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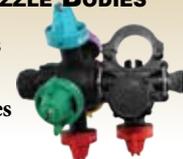
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Miracles of Balanced Plant Nutrition

Continued from page 8

tional status of the crop.

But correcting nutritional problems alone won't necessarily fix a field already in distress – especially when there is disease or crop damage. Diseased or damaged plants require some intensive care.

More Than Just The Elements

Biological Inoculants, sugars, hormones, humates, organic acids and more are game-changers and need to be an integral part of your season fertility program – but especially, biological inoculants.

Biology – both soil and plant – does a lot:

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

• And a whole lot more...

Biology is an exciting part of today's agricultural research – documenting newly-discovered benefits and characteristics almost constantly.

Sugars stimulate biological activity and reduce excessive vegetative growth of plants, due to too much Nitrogen.

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

We see many times a year, that these other things, in addition to basic nutrition, can restore a hailed-out crop within two or three weeks and very rapidly (often, in one season) turn bad fields from disasters into successes!

Plant Tests

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

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

Leaf or Petiole? Very generally speaking, leaves contain the historic nutrient content of the plant. Petioles contain the nutrients flowing within the plant as of the moment the sample is taken.

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

But the problem there is, by the time problems can be actu-

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

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

More To It Than Nitrogen

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

Does Your Plant Test Report Include Everything That Is Important To Your Crop?

We’ve already seen that there are a lot of nutrients required for proper and balanced plant nutrition – only a few of which have been mentioned here – much more than just N-P-K. Accordingly, for you to get a complete picture of your crop’s nutritional status, you need to know about the secondary nutrients, micronutrients and trace elements. Different crops have different nutritional needs and some

crops have special nutritional requirements – especially for trace elements.

Does your lab include these in its reports – and does it have plant tests for your specific crop, including its special nutritional requirements?

Plant Tests Are The Cornerstone

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

What To Take Away From This Article:

If your lab’s soil reports and recommendations are pretty much the same, year-after-year, there’s something wrong, someplace.

If you follow your lab’s plant test recommendations and things still aren’t working well, there’s something wrong, someplace.

If you have disease and insect problems, there’s something wrong, someplace.

If your yields and quality are flat, mediocre or are generally declining, and you’re not doing very well, there’s something wrong, someplace.

The Devil is always in the details – especially the smallest ones.



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There has been some speculation about the acceptability of the direct harvest system due to the high losses of beans, therefore keep using the Ubly Bean Knife for the best possible cut and quality for your money. Do what hundreds have already done. Make Ubly Your Advant-EDGE.

Peanut farmers rejoice!

Ubly Peanut Digger Blade Manufacturing, Inc., a subsidiary of Ubly Bean Knife Mfg., Inc., received a patent for the Ubly Lifting Fingers, stainless steel lifting fingers that are flat and curved upward to better guide peanuts up on to the top of the elevator during the digging process.

Used with their patented Ubly Digger blades, which have a thin, hard-faced edge to stay sharp and always cut the tap root, the lifting fingers and the smaller diameter Ubly 6-inch Bottom Elevator Idler Wheels raise the peanuts without turbulence and in a smooth, uniform ribbon to the top of the elevator.

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Stuck In A Rut? No Track Pivots by Southwest Raaft Co.

Southwest Raaft came into being out of frustration dealing with Center Pivots stuck in a rut during peak watering times. When time is of the essence and down



time is costly! Not to mention the hassle of pulling or digging the pivot out. After trying several products meant to prevent you from getting stuck that didn't work, we found the RAAFT TRACK. A system that truly works!!

We pride ourselves on service. We try our best to have or get the tract to you as fast as possible. Being farmers ourselves who operate pivot systems, we know the importance of getting a sprinkler going quickly. Because we use the system, we can answer questions in a practical and informative manner.

We have been selling the Tracks for the past three and half years. Almost without exception, when some one has purchased a set to try, they have come back for more. We are happy and proud to be selling a system that works so well!!

We look forward to the opportunity to work with you. Give us a try. For more information or to find a dealer near you, go to nostuckpivots.com



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- Nematode Testing

Contact: Paul Stukenholtz, Consulting Agronomist

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Stukenholtz Laboratory Inc.

Celebrating 46 Years of Agricultural Testing

In 1970, there were no commercial soil and plant testing laboratories in Idaho. Farmers applied fertilizers based upon educated guesswork. Dr. Dale Stukenholtz and his wife Joyce saw an opportunity to build a business and started a soil and plant testing laboratory and field consulting service based in Twin Falls, Idaho. Dr. Stukenholtz had an unusually diverse background as an educator at the University of Nebraska, an agronomist in the fertilizer industry, and a farmer, and he saw a need for more modern fertilizer recommendations to produce greater yields at less cost. His clients were the growers, so he could make unbiased recommendations that maximized economic return to the farmer. After extensive field research, he developed these improved fertilizer recommendations that quickly became popular with growers and form the basis for nearly all fertilizer applications in the intermountain west area. Stukenholtz Laboratory clients include growers from all neighboring states and several foreign countries including Australia, Canada, Egypt, Russia, Mexico and New Zealand.

Stukenholtz Laboratory provides 1 to 2 day service, including picking up and delivery time, across Southern Idaho from St. Anthony and Grace to Parma and Homedale. Results can be delivered, mailed, faxed, or pulled from the Laboratory's webpage: www.stukenholtz.com. To improve their service, Joyce and Dale Stukenholtz expanded the laboratory 19 years ago, installed the latest in computerized instrumentation and quality control, and made it the most modern and well equipped agricultural laboratory in their market area.

Critical to the success of Idaho's most efficient laboratory and largest field consulting firm has been its personnel. Dr. Stukenholtz has had a PhD in Soil Fertility and Plant Nutrition since 1964 and his son and Laboratory Manager Paul has nearly completed his own. Consulting agronomists include J.P. Kruckeberg of American Falls, a 37 year veteran of field consulting and the most successful single agronomist in the state, and Bart Kunz. The Laboratory and office staff are equally good.

Stukenholtz Laboratory continues with research and improvement. In conjunction with the Idaho Crop Production Association and University of Idaho CFEP research project, Stukenholtz Laboratory has helped to ensure that fertilizer recommendations in Idaho are the most cost efficient possible and produce the maximum economic yield while protecting the environment. Stukenholtz Laboratory personnel have conducted field research on over 40 different products and continue to be the experts at "cutting edge" agricultural technology. As we end our first 45 years of business and begin our next, we would like to thank our current and former employees for their dedicated work and our customers and clients for their years of support.

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RanchWorx®

Built for Results - Overbuilt to Last

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

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

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

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

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

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

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

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

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

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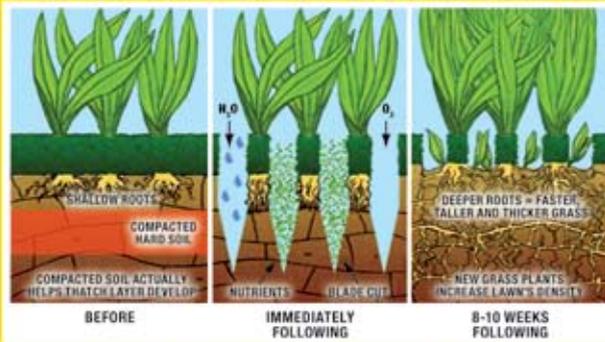
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Benefits of using a RanchWorx Aerator



- Increases grass & hayfield production
- **Increases water retention**
- Fractures sub-soil up to 19"
- **Reduces fertilization cost**
- High work rate – Single pass
- **Relieves soil compaction**
- Eliminates soil erosion
- No till application
- Reclaim CRP ground the no-till way
- Levels rough ground
- Brush management
- Increase stocking rates for wildlife and cattle

RanchWorx would like to introduce our **Trailing Roller System**. Designed to leave behind a smooth and level finish in a single pass while still reaping all of the same benefits of our aeration system.

12' x 42" SA Single with Optional Seeder Package



8' x 42" SA Single with Trailing Roller



- Reclaim rough pastures or hay lands
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Walinga Bulk Feed Bodies & Grain-Vacs

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

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

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

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

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

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

Walinga Agri-Vac

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

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Sunny D Mfg., Co. Inc – *The Oregon Roadrunner*

The Oregon Roadrunner, manufactured by Sunny D Manufacturing Company, Inc., is the all purpose machine when it comes to loading and unloading blocks of hay, everything from a stack of bales in the field to a six-pack of 3x4 bales. What used to take several people hours to buck the hay, whether loading trucks, unloading trucks, or moving the hay from one truck to another, now takes one person just minutes to accomplish. There is no other machine that can match it.



Humble Beginnings

In 1971, Art Davina – then a rancher in Bonanza Oregon – saw the need, designed and built the first Oregon Roadrunner.

That machine is still being used today.

While struggling through the hard times, redesigning to incorporate new ideas and improving on old ones, and building a strong customer base one customer at a time, Art managed to build his back-yard business to a point where he was able to open his first shop. By 1985 the business was large enough that he began the process of incorporating it. Later, needing more space to meet customer demand, he bought a larger property, and moved the business to its current location in Klamath Falls.

When health problems forced Art to take a step back and de-stress his life, he wanted to find the perfect person to take the reins. Ed Majors took over as GM in 1998 and in 2003, began the process of buying the company from Art. Today, Ed officially owns it.

Sunny D Today

From those humble beginnings in 1971 to the 21st century, Sunny D Manufacturing Company Inc. has grown to a business totaling 15 employees. Welders, fabricators, mechanics, a painter, and various support personnel create from bare metal the machine that called “The Oregon Roadrunner.” What used to be only available in white with your choice of stripe, a customer can now choose their color and design. For more information, call 1-541-884-2361, or write 4343 Highway 39, Klamath Falls, OR 97603. 

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livestock

Chandler Herefords

Chandler Herefords has been in the cattle business for well over a century. Six generations of great cattlemen have been involved in managing the operation.



Our conservative approach to raising breeding stock has been very successful over time. We believe that profitable

cattle must “do more with less” especially in these times of ever increasing cost of production. Our mature cows consume grass or grass hay for nutritional input while raising powerful calves and maintaining the ability to get pregnant. Unlike many of our competitors, we know which of our animals are efficient because we are managed with this in mind. We are using several new and popular sires to enhance our gene pool and we can trace our cow family lines back for over a century. Our website: www.chandlerherefords.com highlights our program and the sires we are using in detail so feel free to visit and sign our guest book.

With all this past performance history from thousands of registered calves raised here, we know what our cattle are capable of. We have sold cattle to customers in nearly every state in the union. Their feed efficiency and fertility is really evident when they are asked to perform in less than ideal forage or environmental conditions. If you are looking for no compromise Hereford cattle with a history dating back for over a century then look no further. It is what we are all about. We have stood the test of time and we are here to stay.



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Bio S.I. Technology – Floor-Mate and Jackpot

The livestock industry is volatile, at best, and often downright difficult. Minimizing loss and increasing animal health are two factors which tie directly to the bottom line. Bio S.I. Technology's line of livestock products include Bio S.I. Floor-Mate and Bio S.I. Jackpot direct-fed microbial. Bio S.I. Floor-Mate is an environmental spray that reduces ammonia and begins breaking down solids, thereby reducing odor. Bio S.I. Jackpot is a direct-fed microbial that works in the digestive system to improve natural immunity and performance.

Bio S.I. Jackpot is ideal for use in receiving programs, weaning programs and hospital pens. Received cattle will benefit from a one-ounce oral drench by means of the high concentration and diversity of microbes. Bio S.I. Jackpot will repopulate the digestive system with microbes that were lost due to shipping stress and illness. One of the most important factors in a receiving program is to ensure the rumen is functioning; without microbes in the digestive system, ruminants essentially starve. Maintenance doses in drinking water or applied to daily feed ensure cattle receive the maximum benefit of competitive exclusion and performance.

Weaned calves benefit from Bio S.I. Jackpot in several ways. Utilizing direct-fed microbials allows the rumen to begin working faster which reduces transition from mother's milk to grain and roughage. Reducing the propensity of scours will save time and money from a treatment standpoint and ensure that the cattle are reaching their anticipated average daily gain. Cattle receiving Bio S.I. Jackpot are also more resilient and are able to

return to prior performance and health after an illness.

For cattle that are being backgrounded or finished, the benefits of Bio S.I. Jackpot continue. If an animal has an opportunity to be more thrifty and productive from the beginning, it will perform better in the long run. Bio S.I. Jackpot provides cattle with a better beginning. By maintaining a healthy digestive system there will be a natural improvement in performance, allowing the cost of gain to be reduced. Using Bio S.I. Jackpot as a preventative measure, no matter what segment of the production chain, will have a positive impact on your bottom line.

Once we have given the animal what it needs to improve health and performance we are left with cleaning up after them. That's where Bio S.I. Floor-Mate comes into use. Bio S.I. Floor-Mate is a specially formulated mix of soil-borne microbes that eliminate ammonia while working to digest and decompose organic material rapidly. When ammonia is eliminated and solids deteriorate faster, opportunities for respiratory illness and vector-borne pathogens are reduced. Also, the operation won't be smelled from a mile away, which helps improve relations with neighbors.

In dairies, Bio S.I. Floor-Mate can be used in flush tanks and added to lagoons. It can also be used to improve compost piles used for green chop and silage growth. Bio S.I. Jackpot is certified for organic use by WSDA and IMI Global maintains it on their Feeds Verified list for use in All-Natural, NHTC and many other value-added programs. 



Good for Livestock,
GREAT
for Your Bottom Line.

The livestock industry can be volatile, and often downright difficult. Minimizing loss and increasing animal health are two factors which effect your bottom line. Improve your bottom line with Bio S.I.'s livestock products, Bio S.I. Jackpot direct-fed microbial and Bio S.I. Floor-Mate.

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SweetPro Feeds of Walhalla, ND

SweetPro Feeds of Walhalla, ND produces Vitamin, Mineral and Digestive Aid supplements for livestock and has pioneered the use of Distillers Grains (DDGS) on rangeland.

Dried Distillers Grains (from ethanol production) as a carrier for supplementation provides significant benefits to the Rancher, the Feeder, the Consumer and the Land itself.



Although used in feedlot and dairy settings, until SweetPro's patented non-molasses DDG block became available for rangeland applications, the benefits of feeding Distillers Grains were unavailable to these non-bunk fed livestock.

Historically many small farmers steeped barley before feeding it to their animals. While this practice faded due to various

influences such as economies of scale, elements relating to this fermentation of grain have been refined by SweetPro Feeds. SweetPro has overcome the historic mechanical limitations and taken the science to new levels with stabilization for open range feeding, organic complexed trace minerals, four classes of viable digestive enzymes and prebiotics to deliver maximum performance potential. Feed efficiency is improved by 25%.

Additionally, a blend of cereal grains (wheat, oats, and barley malt) plus flax are used in the proprietary fermented blend additive, "ProBiotein." This assures that the most complementary amino acid profile is available.

SweetPro complements a forage based diet by NOT using starch or sugar (which can create a rumen Negative Associative Effect) as the main ingredient.

SweetPro blocks also produce a unique dynamic which both influences the total protein and the type of protein available to the animal. Total protein is improved, not just from the protein in the supplement, but also from the rumen microbes (single cell protein). SweetPro blocks contain three classes of prebiotics to feed and keep robust these rumen microbial populations. The better the microbials perform, the more single-cell protein is available to the cow when the microbe's short life-cycle ends.

The other protein dynamic in SweetPro is high bypass protein. This is protein not used in the rumen but available directly by the animal. This is most important during the two key times when the cow's protein demands are greatest, late stage pregnancy and peak milking demand.

When these protein and fiber oriented energy benefits are combined with SweetPro's strong vitamin and mineral package, ranchers have a solid tool to help reclaim the losses they'd otherwise absorb when forage is poor. Even poor quality forages can be fully utilized with pastures stretched or more animals run on the same ground.

SweetPro benefits the Rancher by improving feed efficiency 25% while promoting better herd health and fertility. Heavier "growthy" calves can be expected at weaning along with labor and fuel savings (blocks are only placed out every 10 days). It also benefits the producer by providing new options for grass finishing and putting more "Pounds on Pasture" per day than older means of vitamin and mineral supplementation.

SweetPro products also help the Feeder by allowing them to bring in healthier and heavier calves. These calves need only half the time to finish as in years past. With 25% improved feed efficiency, 400 to 800 pounds less corn is needed in the finishing process.

The Consumer benefits through a healthier meat that has much better mineral deposition and a better taste. The Land itself also gains advantages. With 25% improved feed efficiency, stress on pastures is reduced while the more efficient digestion allows for an even spread of softer stools that are much easier for dung beetles to work into the soils. Soil fertility is increased markedly over only a few years time.

SweetPro Feeds' combination of a healthy and cost-efficient vitamin and mineral delivery system along with a 25% improvement in forage feed efficiency has impacted ranching, feeding and the nation positively. www.sweetpro.com



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Reduced Labor
More Pounds on Pasture
(4/10th more pounds per day)

25% BETTER FEED EFFICIENCY
NO MOLASSES!



PBI Parlor Systems Leading the Way in the Dairy Industry

Operating from their office in Portales, New Mexico, PBI Parlor Systems is a leading manufacturer of milking stalls and equipment for dairies around the world.

The owner, Steve Peacock, has a strong dairy business background, and an even stronger pride in his company's products. His commitment to improving dairy profits and delivering excellent customer service is unmistakable. And each of the company's employees shares his dedication.

Of course it all starts with an efficient stall design - their stalls are engineered to be the best solution for maintaining cow safety and dairy efficiency. In fact the company came into existence in the late 80's after designing a parallel stall at the request of a local dairyman.

His stall design was a winner! Good news travels fast, and word of this design spread quickly from person to person, which led to more parlor business.

Building on his design and engineering experience, the entire PBI crew continues to produce and install innovative parlor stalls all over the world. To ensure the quality of the final product, they control every stage of production. Dairies of all sizes, from small family-dairies to large mega-dairies have been fitted with PBI stalls.

Because PBI designs and builds the stalls, they are custom fitted to your unique requirements. They use heavy duty galvanized and stainless steels to provide a durable yet sleek stall with no

rough edges to hurt cows and profits. Performance excellence is ensured by their expert project installer and crew, which they make available for every installation. You will assuredly receive a quality, hassle-free installation, and on-going support.

Value is built into every PBI stall design. Low installation and maintenance costs make PBI stalls a valuable investment for dairies of all sizes. Plus their durable construction, smooth operation and labor saving design provide ongoing increased profits.

Innovation is what started PBI. Their stall designs are adaptable to suit the needs of dairies of all sizes, no matter the environment. They are compatible with all brands of milking equipment. And though innovation started PBI, service is what maintains and grows the company. PBI Parlor Systems takes pride in its continued commitment to meet and exceed their customers' needs. From the free quote they give you, through the completed installation, they maintain a hands-on approach that delivers unrivaled customer service.

But their customer support doesn't end with the sale. PBI's on-going personal contact with their clients and easy accessibility cater to meeting your needs now and later. They choose to maintain close relationships with their clients. Client feedback about stall performance is essential to PBI's commitment to developing and refining products that satisfy the needs of dairy farmers all over the globe.

For more information, call PBI Parlor Systems at 800-295-5677 or visit www.PBIParlorSystems.com



PBI PARLOR SYSTEMS Elite Stalls

The Elite Parallel Stall is our signature stall

- A powerful hydraulic cylinder operates an entire row raising the headstalls to a full 62" clearance. High enough for even your largest cow.
- Lowering of headstalls can be adjusted to your specifications.
- Rapid exit allows cows to leave at the same time.
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- This stall is offered on 26" centers for Jersey cows only, 27" centers for mixed herds or holsteins, or 28" centers for holsteins.

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Powder River introduces new 2000 Series Squeeze Chutes

Powder River squeeze chutes are known worldwide for their strength and durability. Powder River introduced the first all steel commercial squeeze chute in 1938 and has been making products loved by ranchers for almost 80 years. In the last year Powder River has been introducing a new line of squeeze chutes, the 2000 series. These chutes are highly engineered with safety for the animal and operator in mind. The 2000 Series Chutes are bull tough, simple and easy to use, and provide features that benefit speed and durability.

The Powder River 2000 Series Chutes come in 3 major configurations with some additional options. The chassis is similar on each chute and all embody the quality that customers have come to expect with Powder River. All 2000 Series Chutes feature standard: side exits, adjustable floors, split kick pans, dual sided v-squeezes, and an ultra-low profile floor.

The H2000 chute is a hydraulic actuated chute at an economical price. The headgate, center squeeze, and tailgate are hydraulic while the easy to use floor adjustment remains manual to save cost. The M2000 chute is the next evolution of the best selling Manual XL chute (eXtra Long) that is still a Powder River favorite. The M2000 stands out with its rack and pinion headgate and in-line center squeeze that removes handles from the operator's way. The headgate is fast and has a very fine latching mechanism that delivers tighter catches. It also features a neck extender (standard) to aid in head control.

Rounding out the group, the S2000 features a self-catch headgate that offers smooth operation and lots of adjustability. The S2000 can also be ordered with the groundbreaking Stabilizer feature. The Stabilizer is a secondary headgate that catches the cow again in front of the shoulders gently isolating neck movement and al-



lowing unprecedented head control while retaining neck access.

If you have been thinking about a new squeeze chute, there is no better time to look into the Powder River 2000 Series Chutes. Talk to your local equipment dealer or visit www.powderriver.com to find a dealer near you.



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Larkspur, CO



Plainview, TX



Wallsburg, UT



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Want to see pictures of your ranch in Powder River ads? send them to: marketing@powderriver.com

America's Ranches are Our Showroom

If you want to get a look at some Powder River Equipment, there is a good chance you don't need to go further than your nearest pasture. The fact is, Powder River has been making livestock handling equipment longer than anyone else out there. We revolutionized cattle working equipment by introducing the first all steel cattle equipment in 1938. Today we are still the brand of choice by livestock producers around the world. From the strongest gates in the industry, to the latest in squeeze chute innovations Powder River is committed to quality, value, and efficient livestock equipment.

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

TERMS & CONDITIONS: MANUFACTURER'S COUPON - Redeem this coupon at time of purchase. Coupon applies to the purchase of up to 5, coupon-specific products. Coupon may only be used once, and must be forfeited at time of redemption. Offer good only at participating locations. Not redeemable for cash. Customer is responsible for applicable sales tax. Void where prohibited, taxed or restricted by law. NutraStart is trademark of Milk Specialties Co. © 2015. MilkSpecialtiesGlobal.com

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

Limit: total of 5 items

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