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	1,4 SIGHT (DMN)			1,4SEED	
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RESIST 57

- PHOSPHOROUS ACID
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- DRY ROT CONTROL
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President / CEO

Michael Ritz
mikeritz@ritzfamilypublishing.com

Executive V.P. Operations

Robert Davis
rdavis@ritzfamilypublishing.com

General Manager

Brenda Stoner
brenda@ritzfamilypublishing.com

Office Manager

Chelsea Pierce
chelsea@ritzfamilypublishing.com

Sales

Kevin Davis
kevin@farmranchdairy.com
Pat Drury
pat@ritzfamilypublishing.com
Bill Hughes
bill@farmranchdairy.com
Danny Nicolay
danny@farmranchdairy.com

Ritz Family
Publishing, Inc.

Corporate Office

Ritz Family Publishing, Inc.
714 N Main St., Meridian, ID 83642
www.ritzfamilypublishing.com

Sales

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

Subscriptions

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address, call toll free:
1(800) 330-3482 or 1(208) 955-0124
info@ritzfamilypublishing.com

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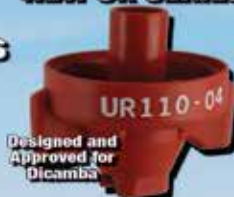
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Stainless Steel Air Seeder Parts

The solution to your corrosion problems!

Romafa Metal Works realized the enormity of the problem that exists of the many corroding air seeder parts and farmers' and ranchers' desperate needs for a solution. Romafa, through careful planning, designing, and testing, developed stainless steel replacement air seeder parts for multiple brands of air seeders.

Romafa Metal Works found by using stainless steel for the replacement part those parts are stronger and more durable. The parts can handle a lot more stress before showing signs of wear and tear. Plus in addition to being more rust resistant, the replacement parts are also more resistant to staining, and – well, let's face it – they look better too.

You no longer need throw money at a relatively temporary solution only to see it rust away almost before your eyes. Instead, replacing your corroded air seeder parts with Romafa's parts made of stainless steel will be a lasting

improvement and solution.

How it started

Back in 2012 Ronald Kornelsen left his job as a designer and started a small family business with his wife, Marcela, and their family, doing welding, machining, and repair work for the local agricultural and cattle ranching community.



Ronald, with his experience with designing and prototypes in the metal-work industry, also offered these skills to fill the needs of his customers and help bring their ideas to fruition.

Romafa (from the first two letters each of ROnald, MARcela, and FAM-

ily) Metal Works very quickly became known as a productive and venture-some business.

Soon local as well as distant customers came to them to have their machinery repaired and/or improved. New ideas were offered, designed, built, and tested.

For Romafa, this created many opportunities for growth as a business, and with the help and expertise of their innovative employees, they have grown to be a business with many different products and projects.

For more information on our stainless steel air seeder parts, our light weight yet durable boom for ditch sprayer trucks, our alfalfa seed sieves for combines (reduces the curls among your alfalfa seed by at least 50 per cent), or if you have a project of your own you need help with, visit our website at www.Romafa.com, or call Jim Kinnaman at 204-364-2244.



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Stukenholtz Laboratory Inc.

Celebrating 51 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 24 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 42 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.



Analysis room at Stukenholtz Laboratory Inc.

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 50 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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Avoiding Disaster With Industrial Hemp: Managing Plant Stress Is The Key

Noel Garcia, CCA
Joe Pedroza
Larry Zibilske, PhD

Hemp growers have one goal in mind: Produce crops with high yields and quality. However, of all crops, hemp alone has the unique statutory constraint that THC, one of the naturally-produced cannabinoid oils, must not exceed 0.3%. Most growers are now painfully aware that a potency test showing a THC level higher than the federal limit will mean the total loss of their crops and in the worst case, be classified as negligent growers. For oil crops, it can be a real balancing act to achieve the highest content of CBD while limiting THC to acceptable levels. However, as fatal as a high THC result is, growers are learning that other factors can lead to a failed crop.

Plant stress is a condition that can be challenging to understand for many growers. Marijuana growers discovered that if they stress their plants in the last few weeks before harvest, they can induce higher production of THC. But stress in industrial hemp can lead to disaster.

What happens if the plant is stressed early in the vegetative state and how does that affect overall yield? Potential growers have asked, "Isn't hemp basically a weed and shouldn't it grow well unattended?". The answer is yes, but not as a commercial crop. Between heat, drought and low humidity, Texas and other arid states can provide plant stress challenges to producing a harvestable crop. So let's review the experiences two Texas growers had this year:

(Background: Texas growers started under a handicap: Licenses didn't start being issued until the middle of April – then already more than a month late for planting and they weren't issued immediately upon application. Accordingly, growers were in a panic to get their crops going.)

- It's late June and the weather is hot and humid - typical conditions for the Lower Rio Grande Valley region of Texas for the time of year. A new greenhouse grower, excited to invest in a new and promising crop, sets out to start his grow.

He starts with topsoil purchased from a local supplier; it's a sandy loam which he blends with coconut coir and perlite.

The seeds germinate and for the next several weeks, the plants are growing well. One morning as he walks through the rows of potted plants, he notices many of the young plants are beginning to flower. The plants are only five weeks old and six to eight inches tall. They are not an auto-flowering variety. What's going on?

- Another grower in Texas is preparing to plant his first crop. He has seven acres but decides that it would be wise to start with one. It's a new operation and he hasn't fully established the drip irrigation system, which he decided to self-install. It's getting late in the season, so he direct-seeds before it gets any later. The seeds germinate and everything looks great.

He has close to 2,000 plants in neat rows, stretching out in the hot Texas sun. Things are going smoothly, but it's August now, and the temperatures are starting to tick higher and higher. For two weeks, temperatures went over 100° and the plants begin to show signs of stress. Insects soon moved in and made the situation worse. As the grower walks his field, he notices his plants, now five weeks old, are starting to flower but they are not an autoflowering variety. What's going on?

First, let us understand the mechanisms that trigger a plant to switch to its reproductive (flowering) stage. Flowering is initiated either autonomously or by environmental factors. Photoperiodic flowering is controlled by the amount of light and dark hours. With photoperiod strains of Cannabis, plants switch from the vegetative to the flowering phase when they get longer than 12 hours of dark. By contrast, auto-flowering strains are not dependant on light or dark hours and are genetically programmed to begin flowering when they're 4-5 weeks old.

Other crops show similar characteristics. Olives, for

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example, are controlled by vernalization: they must have a minimum number of cold hours to initiate flowering. So is that what happened to our Texas hemp growers? Was it so late in the year that the plants got enough hours of darkness to initiate flowering? In these cases, the answer was no. Let's look at each situation separately and analyze what went wrong:

- In the first grower's case, the lab analyzed the media and the well water he used to irrigate. A comprehensive analysis showed that the media-mix the grower purchased was mostly inert and devoid of nutrients (and life). The pH was high at 8.3 and highly calcareous with 1,200 ppm of calcium as carbonate.

Additionally, even though coconut coir was added, it did not contribute to the active organic matter as it had not been composed. So, active organic matter measured only 0.52%. The well water tested high in dissolved solids at 1,155 mg/L - mostly sodium and chloride. Notable too, was an elevated boron level of 1.8 mg/L, which can occur naturally in wells deeper than 100 ft. After talking with the grower and discovering how he was fertilizing and irrigating his plants, we understood how stresses had built-up.

He explained that he did not feed for the first 3-4 weeks of growth and had only been watering the plants using a backpack sprayer. He wanted to avoid root rot from overwatering, so he only watered every two or three days. The media in the pots, composed mostly of sandy soil, would become hard and compacted when it dried. The minerals from the water began to build-up in the media, to the point where it had become white and crusty.

The outcome was the plants had experienced chronic stress from underwatering, lack of nutrients and accumulated sodium and boron that was reaching toxic levels as evidenced by a plant sap test that indicated 230 ppm of boron. The response from the plant was one of survival and to reproduce. As Dr. Ian Malcom said in his famous Jurassic Park line, "life finds a way." The instinct for survival and reproduction is what drives all life on earth. In the case of our young Cannabis plants, the response was to flower.

- When we reviewed the conditions of the second grower, we found a different pattern of problems. Our soil analysis showed that nutrient levels were mostly adequate except nitrogen, which was excessively high at 290 lbs/ac. As the plants grew, the excessive nitrogen stimulated rapid growth, leading to a weakened cell structure, making the plants susceptible to insect attacks.

The grower, not being experienced in designing irrigation systems, built-in watering issues - so many of the plants were exposed to drought conditions during a heat wave that affected the region. The slope of the field led to overwatering at the bottom and underwatering at the top. He did not consider that static water pressure increases with every foot of elevation by 0.433 psi - so he started off with a considerable static pressure differential along the vertical length of the lines: highest at the bottom - lowest at the top.

Under the stresses of heat, unbalanced nutrition, insect pressures and uneven water distribution, the young plants' instinct for survival triggered a flowering/reproductive

response in the less than 100 surviving plants.

So what should these growers have done differently to avoid such losses?

No matter the crop, planning and preparation are essential to success. Industrial hemp, in particular, requires very much advance research and planning. There is no better protection against the variables that Mother Nature inflicts to test growers than to have a detailed plan and prepare for your crop's success - and avoid potential problems.

It can seem like a daunting task with so many factors at play, especially since many think it is beyond their control. And rightfully so, as we frequently hear about storms that hit with little warning and destroy large areas of farmland, and heat waves and droughts that cripple parts of the farming community.

How can we prepare for these challenges?

The answer is hidden beneath our feet. Understanding Soil Health is the cornerstone of every successful grower. The foundation of your plan should be the rebuilding of your soil and its life, and management of its nutrients and structure.

Soil health is an idea that involves optimizing the relationships between soil physical, chemical and biological factors. Achieving and maintaining good soil health is essential for producing good crop yields and quality. Fertilizers are only part of soil fertility. Soil microbes live on and around plant roots and interact with roots in several important ways.

Among the most important interactions are ensuring plant roots are protected from pathogenic microbes and assisting

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the uptake of nutrients into the plants. But healthy soil also includes beneficial nematodes, insects, earthworms and fungi – all interacting with each other and the microbes in concert.

Maintaining balanced nutrition and vigorous soil life at every stage of your plants' life cycles will ensure that no matter what challenge Mother Nature sends, your crops will have the best chance of making you money.

Soil or growing media testing is one of the best investments a grower can make, especially when planning a new season. As we saw with our Texas growers, soil lacking in nutrients or having excess nutrients, devoid of life, or being extremely acid or alkaline, all lead to plant nutrient uptake problems – which invariably results in stress.

Irrigation water analysis is also paramount when installing your farm's infrastructure. Poor quality water can neutralize the efficacy of nutrients and treatments, affect distribution by plugging emitters when using drip irrigation and change the soil's native chemistry.

These tools will help you understand where you need to focus your energy and resources. The goal is to provide the best possible environment for your plants to grow. When we correct our soil's nutritional imbalances, we facilitate maintaining adequate levels of nutrients in our plants as they develop.


As the plant grows, its nutritional needs change and meeting those needs will greatly reduce the harmful stresses that prevent the plant from reaching its maximum genetic potential – and limit the production of THC. Simultaneously, we reduce the need for insecticides and other harsh treat-

ments that reduce overall profit. In the case of conventional growers, we also reduce the exposure to strong chemicals and toxic treatments.

Additionally, it is essential to learn from those who have experience in growing crops – and industrial hemp, in particular. We are still learning about the stresses that affect hemp and the differences between geographical/climatic regions. Add to that the regulatory standards and market requirements that must be met to harvest a profitable crop and one quickly realizes that industrial hemp is one of the most challenging crops to produce.

We encourage you to reach out to experienced Industrial Hemp (not Marihuana) growers and consultants willing to council you about your plans and goals. Plan and prepare for a successful crop by learning what your soil needs to be healthy and what you need to restore that health.

Include soil microbes and organic matter in your plan and you will ensure vital relationships are maintained in the plant root environment for the entire season...and beyond.

All crops, aside from hemp, benefit from healthy, living soil. It is the greatest asset we have. It is our obligation to be the stewards who restore the rich farmlands that once were the pride of our forefathers. 

Noel Garcia is a Certified Crop Advisor and is Chief Operating Officer and Senior Technical Consultant at TPS Lab

Joe Pedroza is a Texas-Licensed Hemp Sampler and is Business Development Manager at TPS Lab

Dr. Larry Zibilske is Vice-President of Research at TPS Lab



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"Sunset Ranch"

16 miles south of Burns on Hwy 205. 5892.31 +/- total deeded acres consisting of irrigated pivots & native & improved pastures. Irrigation equipment: 5 – Zimmatic pivots, 2 – Valley Pivots, 1 – Pierce pivot. Different crops: Timothy hay, hay/grass mix, alfalfa hay, and irrigated pasture. Has multiple improvements including a couple homes and outbuildings. \$6,250,000

"Moffitt Ranch"

39 Miles east of Bend, Oregon. 7284.62 acres of deeded native rangeland. 1 stock well. There are very adequate cattle working corrals that have a hydraulic chute, Powder River alley & tube, and Powell Cattle scales. This Eastern Oregon Ranch is a cowboy outfit on the High Desert. Reduced to \$3,750,000

"Otley Farm"

414.33 Acres of deeded land. Irrigation Equipment: 1 – 2006 Valley pivot (8000 Series), 1 – 15 HP Turbine Irrigation Pump, 1 – 30 HP Submersible Pump. Improvements: 1993 Fuqua MH (3bed/1¾ bath), New construction home (2 bed/1 bath), 24 x 60 shop/barn, and a set of working corrals with power. This is a great place to produce hay and run a small herd of livestock. \$945,000

"Frypan Farm"

3 miles south of Crane on Hwy 78. 358 acres with Barley and Alfalfa crops. Irrigation equipment: 1 – Turbon pump 60 HP and 1 - Pierce pivot approx. ¼ mile in length. This property would be a great place cattle or a great place to raise hay. The Pierce Pivot is equipped with Field Net Remote Controls and a LESA Sprinkler Irrigation System. \$410,000

"Hunter's Oasis"

This semi-secluded property and the surrounding public lands have consistently produced a great mule deer and Rocky Mountain Elk population for hunting. Other wildlife in the area includes black bear, antelope, bobcats & cougars along with ducks & sage grouse. The cabin is a one room pole construction with a loft and ATV storage. They have a shower, kitchen area and solar system for power. The cabin sits in a nice meadow with quaking aspen and pine trees and there is a nice size pond past the cabin. \$1,050,000

"West Sagehen Property"

This property has a great location within only 5 miles west of Burns/Hines Oregon. The improvements are hidden from Hwy. 20 just over a small hill giving you great privacy and overlooking the pivot and Sagehen Creek which runs through the property all year. The doublewide house has had some remodeling and is in good shape with a nice deck to relax on in the evenings. The shop has 24' overhang for parking plus a 1 bedroom, 1 bathroom apartment. \$950,000

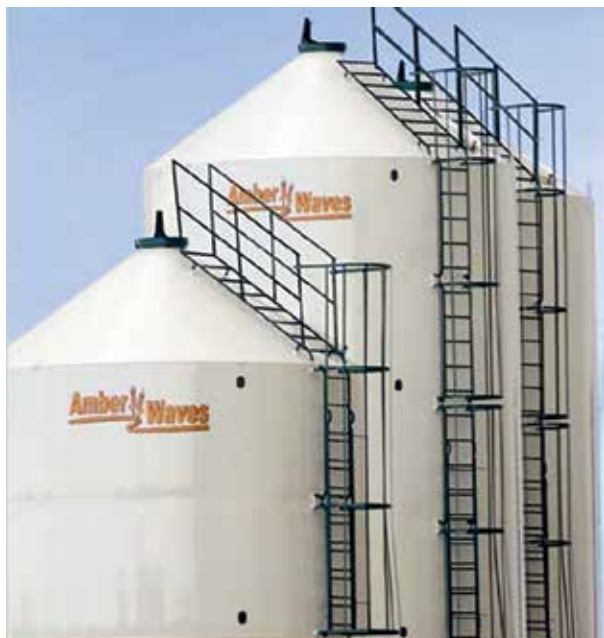
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equipment



Photo courtesy of USDA NRCS.

The TireGrabber – Working with large-scale tires is now easier, more efficient, and safer!

The TireGrabber is an award winning farm machinery attachment that makes working with large scale tires safer, faster and more efficient. It connects to any skidsteer, bobcat, front end loader or forklift. If you have been wrestling with working with large scale tires – whether just a few times a year or on a daily basis – **The TireGrabber** is the unit for you.

Growing up on the farm, Darcy Goossen came to the realization that tires and equipment were getting larger and larger all the time. Safety was becoming a real concern – especially when it came to changing out large sprayer tires. That was where the seed for **The TireGrabber** was planted.

Over the course of several years Darcy built several prototypes, each time tweaking a bit here and improving a lot there. By using a patent pending three-point equal pressure design, the forks clamp onto the tire with an incredibly firm,

secure grip allowing you to move and install large scale tires safely, easily and more efficiently. Finally he had produced a unit that he felt was ready for use.



As he began using **The TireGrabber** he was pleased to find out it was doing exactly what he had originally intended for it to do – make changing large scale tires safer, faster and more efficient. Additionally, by using **The TireGrabber** you can now store your large scale tires laying down and stacked, saving you warehouse space and wear and tear on your large scale tires.

What Darcy didn't plan on though was the response he got from friends, family members and neighbors. They all felt he was on to something – and that something he was on to also needed to be on the market for others to get.

Since that time Darcy has designed several different models and sizes and they are now available depending on your needs. From tire stores who have the task of changing large scale tires on an ongoing basis, to farm machinery dealerships who perform high volume change overs to farmers of all sizes who only change tires twice a year **The TireGrabber** has you covered.

Darcy has attended multiple trade shows and in 2018 The TireGrabber won the Farmyard Inventions Award at Canada's Farm Progress Show in Regina, SK.

For more information you can contact Darcy at 780-678-4288, or visit his website at www.TheTireGrabber.com 📞



The TireGrabber - an award winning farm machinery attachment that connects to any skidsteer, bobcat, front-end loader or forklift!

- Patent pending 3-point equal pressure system design—incredibly firm, secure grip on tire.
- Can be stored laying down and stacked, saves space and wear on your tires.

Four models available to fit your needs!

- **TG3000** and **TG3000AC** - designed for the farmer who changes tires a couple times per year. Easier way to move and store tires.
- **TG4000** and **TG4000XL** - designed for heavy users (row crop farmers, dealerships, tire stores). Can handle many changes, move and store their tires faster, easier and more efficient.

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Dalton Ag Products: Simple. Durable. American.

Dalton Ag is a leading manufacturer of high performance fertilizer application equipment for agriculture, located in the heart of the Corn Belt in Lenox, Iowa. Founded in 1996 by local entrepreneur Dick Dalton, 2021 marks the 25th anniversary of Dalton Ag. The Company offers a wide range of fertilizer application equipment under two brands: Dalton and Mobility.

The Dalton line consists of toolbars and liquid applicators for in-ground injection of anhydrous ammonia and liquid nitrogen, plus the associated wagons, tanks, nurse trailers and row units. These products are designed for commercial row crop producers and have working widths of up to 60 feet. Dalton toolbars have industry leading wing down-flex for consistent depth on uneven ground, greaseless pivot points, and are available with 6"x6" steel tube frames for additional strength in difficult soils. Dalton products are available in a number of colors to match the customer's fleet, including blue, red, green and black.


The Mobility line, with its white and black livery, is designed for the spreading of dry material such as fertilizer and lime before, during and after the growing season. The spreaders come in either row crop or tandem walking axle models, and



Mobility Model 600 Row Crop Dry Fertilizer Spreader

have weight capacities of up to 12 tons.

Dalton Ag has built a solid reputation on designing and fabricating farm equipment that is simple, durable and American. Dalton and Mobility are both names that farmers and dealers can count on.

For more information, contact Dalton Ag at 1-800-342-7498, email office@daltonag.com or visit www.daltonag.com. 



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Users find it very easy to operate and straightforward to install. In fact, more than 75% of endusers install their own RiteHeight® systems. Installation is simple because there are just four main items: 1) Console with display and keypad, 2) Junction Box, 3) Sensors, and 4) Cables.

RiteHeight® is adaptable and works on any type of new or used trailed, or self-propelled sprayer with electric-over-hydraulic solenoid valves. It works with all common hydraulic designs and requires no additional hydraulics.

Once installed, use the TEST menu to check connections. Then move the sprayer to a safe spot outside, unfold the booms, and run the auto SELF CALIBRATION step. This allows the computer to learn your sprayer's behavior.

At spray time, set the optimal target height. Choose the operating mode: Bare Ground, Partial Canopy, or Full Canopy. RiteHeight® allows operators to make on-the-go adjustments to target height. The RiteHeight® system is easy to over-ride and constantly monitors for operator input. Headland Mode allows for quick & safe turns.

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ate RiteHeight® directly from the Universal Terminal screen on many tractor and sprayer displays. Some users move RiteHeight® sensors from the booms to their Y-Drop systems where correct boom height is necessary to optimize placement of liquid fertilizer in row crops.



Since 2007, Greentronics has taken great pride in offering this high quality product at the most reasonable price on the market. Customer input has driven many improvements over the years and operators with older RiteHeight® systems are advised to contact Greentronics about upgrade options.

For more information, visit: www.greentronics.com or call Greentronics Ltd. at 519-669-4698



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Brown Weight Valve

A Valve You Can Love

Introducing the WEIGHT VALVE

Garry Brown, a former dairyman, has been developing and selling his weight valve for several years. This valve is not a float valve. It uses a valve that is normally closed (a float valve is normally open, and the float holds the valve closed). This valve has a weight on an arm that pushes the spring-loaded valve open when the water level is lowered in the tank. The arm is adjustable for setting the water depth.

Brown's weight valve uses a solid block of HDPE (high density polyethylene) mounted on the arm. HDPE is lighter than water and is the perfect weight for the valve. This block rests at the water's surface. As water in the tank lowers, the weight pulls down on the arm, pushing the spring-loaded valve open and turning on the water.

As Brown developed his weight valve, he built it the way dairymen would want – heavy duty and built to last. The valve housing and weight are made of HDPE, and all metal parts are made of stainless steel. It is built to last, priced competitively with other valves, and made in America.

If you have been around dairymen much, you know that almost all of them have things that they love. They love the

brand of their tractor (and probably have several replacements). They love the kind of pickup truck they drive. They love the breed of cows they have. And the list could go on.

But you seldom will find a dairyman that loves the kind of float valves that they use in their water troughs. Float valves have been the only device available to control the water level in any container, water trough, swamp cooler, and toilet tank for roughly two hundred years. More often than not dairymen will tell you how much they dislike them, and they can't find one that works well and lasts.

Can you think of any other device that uses two-hundred-year-old technology? There are variations that have had some success but most are not a dairyman's favorite device.

That is changing. There is a new water valve available that is not a float valve but operates on a new principle. There is finally a water valve that dairymen can love.

The arm on the regular size Brown Weight Valve is a one-eighth-inch-thick bar of stainless steel. The weight is a solid block of HDPE about the size of a brick and weighs about two pounds – these weights will never fail like a float valve will.

With a weight valve, the most pressure that can be put on the valve is the weight of the arm. The arm is hinged to push

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in on the valve – but not attached to the valve, so if the water level rises the weight will float up without putting pressure on the valve.

There are several different sizes of Brown's valves that deliver from four gallons per minute to over twenty gallons per minute. Brown has put together many configurations, such as a valve with a short arm and a hanging weight, and an arm that allows the valve to be mounted under water. Other sizes and configurations as demand dictates.

Weight Valve FREEZE VALVE

Brown has found a perfect freeze valve to use on the weight valve to keep water lines and valves from freezing. It is fully adjustable from a dribble to a full stream (with a 3/16 in. opening). The freeze valve, like the weight valves, are built to last. Moving water will not freeze. This valve can be closed to where it delivers a pin-point stream (it has to be left on with a solid stream) and can deliver as little as two gallons in three hours. You don't need very much volume in your troughs to hold this additional water during the night when animals are not drinking.

The weight valve arm is adjustable so you can adjust it to shut off the water at a lower level during cold weather so the additional water added to the trough at night when a few animals will drink will not overflow the trough.


There are several freeze valves on the market that turn on a smaller stream of water when the water temperature approaches freezing. These are being sold for use with float

valves. Since the water cannot rise any higher than the float's shutoff without damaging the float valve, this requires an overflow drain to carry the additional water out of your corral. It would be very expensive to put underground drains in all troughs, and this water is wasted – adding further expense. There is one other way to keep troughs from freezing using a float – heat the trough. And that is expensive.

The arm of the weight valve is hinged so it only puts pressure down. If the water level is raised higher with a freeze valve, it puts no pressure on the valve or weight. The weight floats up with the rising water. By adjusting the small stream of water that the freeze valve delivers, it comes out of the valve at the water pressure in your water line, and runs toward the weight so it tends to keep the weight from freezing in the trough.

During really cold periods, it will keep the water line, the valve, and the area around the valve from freezing. When the animals start drinking in the morning, the new water coming into the trough will melt the rest of the trough. If the weatherman says it's going to be extremely cold, you can open them a little more. During the summer you can shut them completely off.

The WEIGHT VALVE, and the FREEZE VALVE are a perfect match. For one person to come up with just one of these ideas is great – but Garry Brown came up with both!

To learn more, visit www.BrownWeightValve.com, contact Garry at 1-801-602-9910, or email wilgerbin@aol.com. 

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Catch A Ride On The Feed Train®

In his previous career, before becoming a manufacturer, Bob Lutz was a cattle farmer. As such, he was always looking for ways to save time and money and make life a little easier. Since he was running a rotational grazing system to conserve his pastures, he was spending a lot of time moving feed bunks. Thus the dream of the time and labor saving mobile feed bunk system came into existence.

In order for this system to work properly, a special steering mechanism was necessary to cope with the hilly terrain here in northern Missouri. Bob kept experimenting until he came up with the correct formula and put it into action for his own use. He then applied for and was granted a patent on the steering system.

The high quality construction of the Feed Train® mobile bunk led to requests for stationary bunks of the same quality and those were added to the product line. Next we were

receiving customer requests for creep feeders and these were designed so that no tools are required for set up, thus avoiding the "lost screwdriver syndrome."

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Deaton Nutrition Inc.

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- Conservation Biology
- Agricultural Engineering (two years at WSC and two at UNL)
- Applied Science (dual degree program in agriculture and biology with three years at WSC and one at UNL)
- Plant biology-Ecology and Management (three years with WSC and one

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