Albracht Achieves 371 bu/acre Corn Yield Under Extreme Texas Conditions

Hart, TX — Texas grower Steven Albracht is finishing up harvest on his 2,000 acre farm in the Texas panhandle. This year, Albracht reported 371 bu/acre on corn fields treated with StollerUSA technology. The 19 bu/acre increase, over control plots, was achieved in severe drought conditions, high temperatures and no rainfall during a five-month period.

Albracht's program started with a seed treatment application of Bio-Forge® ST to select hybrids planted in twin rows at a planting population of 48,000. Fields quickly dried out due to the drought conditions and an extended period of high temperatures above 100 F throughout the growing season. Even with extreme heat, root systems continued to grow and plants stayed healthy. Albracht applied additional Stoller products including X-Tra Power™, Sugar Mover and X-Cyte™ at various growth stages to boost yields even further.

"I walk fields every day. I want to know what's going on in my fields above and below the ground,” explains Albracht. "Immediately I saw Stoller products boost health and take stress off my plants. The Stoller program has created a bigger root system to help take up every nutrient out there.”

Results are in and with 371 bu/acre over his control plots of 352 bu/acre Bio-Forge ST and the other Stoller products brought the results he wanted. With 1,000 acres of corn and a 19 bu/acre increase, Stoller kept plants healthy from the time the seed hit the ground all the way to harvest providing real results and significant ROI.

"Stoller technology continues to demonstrate its consistent performance in maintaining plant health with unprecedented yields throughout the Midwest,” says Wayne Smith, General Manager of StollerUSA. "As stressful weather conditions continue to cause issues in the fields, Stoller products are there to help relieve the stress and boost yields.”

In his second year of using Stoller products, Albracht is 100% sold on the technology and convinced by the results he saw almost instantly. Bio-Forge ST is an affordable, cost-effective, university-tested, treatment that ensures seed germination, enhances strong early root growth and offsets the effects of early stress to increase yields.

About StollerUSA

Celebrating 40 years in agribusiness, StollerUSA markets a full line of products to help farmers increase crop yield and quality. StollerUSA, headquartered in Houston, is actively engaged in basic and practical research to enhance crop productivity in more than 50 countries.
Stoller Enterprises Awards and Presentation Foster Agricultural Advancement at the PGRSA 2012 Conference in Denver

HOUSTON (July 10, 2012) – Dr. Albert Liptay, Director of Research and Development at Stoller Enterprises, will be making a presentation of information and awards at the 39th Annual Conference of the Plant Growth Regulation Society of America held July 22-26 in Denver CO.

The PGRSA is a networking and research conference dedicated to discussing the recent research on plant growth regulation. One of the featured speakers for the event, Liptay will present Weslaco Texas field experiment results on the impact and management of abiotic stress on soybean plants. Liptay effectively doubled yields by addressing the abiotic stress factors at various plant growth phases.

Jerry Stoller CEO and founder of Stoller Enterprises, Inc. has been a contributor and participant of the conference for many years. In 2012 his continued commitment to advancing agriculture took the form of sponsoring two conference research awards. Stoller will award a $5000 grant to a post-doctorate student who submits a research paper that most clearly demonstrates the advancement of plant growth hormone technology in crop production. Stoller will award a second $5000 grant to the author of the research paper that best outlines the most interesting “new concept” for the use and or hormonal treatment of plants.

"We’ve only tapped the surface of crop yield potential," explains Stoller. "It is looking beyond traditional agricultural thinking that will provide answers to yield challenges. Cutting edge research, like Dr. Liptay's presentation and innovative thinking like that fostered by Stoller Enterprises PGRSA awards perfectly aligns with our mission and focus as a company."

For more information on Stoller technology and products go to www.stollerusa.com. For more information about the awards or Dr. Liptay’s upcoming presentation contact Stoller Enterprises at info@stollerusa.com.

About StollerUSA

Headquartered in Houston, Texas and celebrating over 41 years in business, Stoller Enterprises, Inc. is dedicated to helping producers enhance yields by maximizing genetic expression. Stoller Enterprises’ R&D team is located in an independent research facility allowing them access to the most advanced plant research technology. In addition, close ties with universities throughout the nation offer Stoller’s R&D team crop perspective with a regional issues emphasis. Only Stoller products contain Stoller’s proprietary technology that is proven to ensure optimum plant growth by maintaining appropriate hormone balance and activity. In combination with proper nutrition and good farming practices, the result is enhanced marketable yield, significant return-on-investment and improved stress tolerance. Validated by universities nationwide, Stoller’s unique formulations outperform traditional products and result in healthier, more productive crops that are better able to achieve their full genetic potential.
Replicated Alfalfa Field Trials Demonstrate Improved Forage Quality

HOUSTON (June 26, 2012) — Since 2010 Partners in Production, agronomy consultants with an emphasis on "seedmanship", have worked with Wisconsin farmers and Stoller technology to improve Wisconsin alfalfa quality and yields.

Field trials, at multiple locations with multiple replications, provide ample and definitive data on the impact of various inputs on forage crop quality and tonnage. Independent Dairyland Laboratories, Inc. conducted the forage analysis. Bio-Forge® and other Stoller plant performance products were among the crop inputs tested.

"Wisconsin is the dairy state and the economic pressures on dairy farmers is great. Enhancing the yield and quality of the alfalfa crop helps them to manage their feed expenses and directly impacts their herd health" explains Partners in Production’s Mike Haedt. "We’ve been testing Stoller products for two years over multiple crops and comparisons with replicated tests in direct comparisons to break down yield barriers through epigenetics in alfalfa, corn soybeans and wheat."

Using protocols to maximize validity, the field trials were replicated in multiple locations on various alfalfa cuttings. When Bio-Forge was used alone or in combination with other Stoller Plant Performance Products crude protein levels increased by as much as 29%. In a clear demonstration of the overall enhanced health and productivity of the alfalfa plant, stem counts increased by 20% to 49%. In addition, plants treated with Bio-Forge had leaves the entire length of the stem — not just at the crown.

The most dramatic response was seen in several second cutting plots where the Stoller treated crop reached a wet yield of 10.52 wt/acre with a 230.63 RFG (Relative Forage Quality) and 223.05 RFV (Relative Feed Value) compared to the check crop results of 6.171 wt/acre; 165.03 RFG; 175.08 RFV. Yield data reflects wet tons. Haedt stated it was important to note that there was no measurable precipitation during the second crop making the difference between the treated and untreated alfalfa dramatic and directly attributable to the crop management program using Stoller technology.

Farmers participating in the study reported treated plants allowed for more cuttings per season and healthy and productive alfalfa stands with increased longevity. The result is savings in seed cost and planting expenses. Herdsmen’s claims that the improved digestibility of Stoller treated alfalfa crops enhance production and overall herd health are in the process of being studied.

"Stoller’s plant performance products are proven to maximize genetic expression and maintain optimal hormone balance so plants can function properly. Only Bio-Forge up-regulates key genes associated with managing plant stress," explained StollerUSA’s crop expert Don Stork. "It’s been widely accepted as an effective yield-enhancer by fruit, vegetable and row crop farmers. Now, Dairy Farmers have a proven program to improve their forage crop."

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StollerUSA’s Bio-Forge® Helps South Dakota Field Recover from Herbicide Damage

Woonsocket, SD (April 25, 2012) — StollerUSA’s stress reducing, yield enhancer, Bio-Forge®, rescued a soybean field in South Dakota from complete loss after being treated with a herbicide that required a ten-month plant-back.

A 90-acre alfalfa field near Woonsocket, SD was treated with herbicide and plans were set to plant corn that spring. Having a change of heart, the grower decided to plant soybeans instead. After growing just three to four inches the soybean plants began to wilt and “shut down.” It was then the farmer realized an herbicide with a ten-month plant-back for soybeans had been used to prep the field.

Making the best of a bad situation, Jason White, Location Manager for the South Dakota Wheat Growers’ Woonsocket office, applied Bio-Forge at the end of July hoping to alleviate stress damage and save the field. White’s last-ditch effort paid off. The soybean plants came back and produced a crop — even with the extremely dry conditions through the end of the growing season.

“We dug roots up to see what was going on and what I saw amazed me,” explained White. “The root mass on the Bio-Forge treated plants were larger and stretched deep into the ground to reach the water and nutrients needed.”

The increased root mass and enhanced crop stress management from the foliar application of Bio-Forge allowed the soybean field to reach harvest. Yield results proved what White saw above and below the ground. Anticipating a complete loss, the treated field actually yielded 25 bu/acre. With such surprising results on a devastated field White plans on applying Bio-Forge to several acres in 2012 in hopes of pushing healthy crop yields even further.

“The herbicide recovery experienced in Jason’s field is a clear demonstration of Bio-Forge’s effectiveness in managing crop stress conditions,” states Vicki Dekkers, StollerUSA Sales Representative. “Natural stress and successful grower trials have increased interest and sales of Stoller technology in this region. Bio-Forge is another tool for the grower’s toolbox.”

Bio-Forge is a yield-enhancing stress reducer for all crops. It reduces the negative effects of plant stress caused by drought, excessive moisture, frost, herbicide damage and other crop stressors. Proven to enhance a plant’s natural ability to overcome damage caused by disease, weather and insect productivity, Bio-Forge may be applied as a seed treatment, in-furrow or as a foliar spray application at rate of one pint per acre.

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StollerUSA Adds Iowa Facility to Better Serve Its Customers in the Corn Belt

Houston, TX (April 10, 2012) — StollerUSA, the leading developer of proprietary plant performance technology, announces expansion into Cedar Rapids, Iowa. With the increased interest in Stoller technology and Stoller products in the Midwest, the additional capabilities will allow this entrepreneurial firm to better serve an increasing Midwest customer demand while maintaining the mission emphasis of leading the way in the development of unique technologies to improve agriculture.

“Due to the growing interest in Stoller technology, it makes good business sense to take advantage of this opportunity,” commented Jerry Stoller, Stoller Group, Inc founder and CEO. “It allows us to continue to explore new science while enabling us to better respond to current product demand.” The 50,000-square facility will initially be established for manufacturing and warehousing for Stoller’s products distributed throughout the Midwest.

Stoller’s emphasis is on products that protect plants against yield losses due to drought, temperature extremes and various diseases. It is this new science that is propelling sales worldwide.

StollerUSA

Bio-Forge®, X-Tra Power™, Sugar Mover™ and other proprietary plant performance formulations that are growing in popularity with row crop farmers have been the focus of StollerUSA. In addition, StollerUSA offers liquid micronutrients and starter fertilizers to correct micronutrient deficiencies.

Stoller Enterprises

Stoller Enterprises, Inc. recently unveiled a line of prescriptive EPA-registered phytohormone products designed to manage and control plant growth characteristics during periods of plant stress to protect against yield loss.

StollerUSA and Stoller Enterprises, Inc are subsidiaries of Stoller Group Inc.

About Stoller

Stoller is an established leader and innovator in crop production, specializing in technology that manages plant growth hormones to maximize yields. With a dedicated R&D team and effort, Stoller Enterprises looks beyond traditional practices for innovative methods with a focus on increasing yields to feed a growing population. Jerry Stoller and his team have been recognized as plant experts that are dedicated to helping producers enhance yields by maximizing genetic expression. Celebrating over 41 years in agribusiness, Stoller Enterprises, Inc. is headquartered in Houston and is actively engaged in basic and practical research to enhance crop productivity in more than 50 countries.
Illinois Soybean Challenge Competition Validates the Yield-Enhancing Performance of Stoller Products

Houston, TX (March 26, 2012) — Over 400 Illinois Soybean growers gathered together at the IL Soybean Summit in Bloomington, Illinois on March 9, 2012. The summit was the culmination of a Yield Challenge initiative sponsored by the Illinois Soybean Association. “The initiative is designed to discover and break down yield barriers,” explains Jim Nelson, Yield Challenge Coordinator of the association. “With the increasing demand, Illinois farmers need to find ways to increase yields on the current acres already in production.”

Stoller participated in the inaugural event by co-sponsoring two teams with retail partner Brimfield Agri-Service. The teams were comprised of 15 farmers in the district 4, central Illinois region. “The idea to sponsor a Stoller team grew out of discussions at last year’s Illinois Farm Profitability Seminar.” explained StollerUSA representative Don Stork. “Based on our work with Kip Cullers — helping him to break yield barriers in Missouri — we knew we had a product that could help the progressive farmers in Illinois, too.”

The teams utilized predetermined crop management strategies with an emphasis on managing the impact of crop stressors. Stoller products used included Bio-Forge® ST (seed treatment), Bio-Forge®, X-Tra Power™, Harvest More™ Urea Mate, and Sugar Mover™ at various application rates and timing.

Overall the teams achieved a 5.56 bu/acre increase just by incorporating Stoller’s program into their management regimen. Even using conservative market price estimates the return calculated to well over $70 per acre.

“We’ve seen increasing numbers of farmers incorporating Stoller products into their row crop management program,” shared StollerUSA representative Rick Gaffney. “Products like Stoller’s Bio-Forge help break the yield barrier everyone is talking about ... and Stoller’s Yield Challenge teams confirmed it with their results.”

Team participants planted several varieties/brands of soybeans. However, only the Stine soybeans were seed treated with Stoller’s Bio-Forge ST. Eight of the nine plots treated with Bio-Forge ST enjoyed a significant yield boost. In university and field studies, Bio-Forge ST seed treatment is proven to improve seed germination, emergence, early seedling vigor and early nodulation. Overall team members felt it was one of the simplest and most cost-efficient ways to increase yield.

Reflecting on the success of the first summit, Yield Challenge Coordinator Nelson shared, “The enthusiasm to set up teams and develop new crop strategies for 2012 is extremely strong. Partnering with companies like Stoller gives Illinois farmers some new tools to take yields to the next level.”

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Maximizing the genetic expression of plants, Stoller’s proprietary formulations are designed to promote plant vigor while managing excess ethylene and the stress of extreme temperatures, drought conditions, high plant populations, excess moisture — even herbicide damage. They are designed to up-regulate key genes to offset stress, maintain optimal hormone balance, enhance pollination or sugar movement so plants can function to their maximum potential.

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Arkansas Corn Grower Achieves 18 bu/ac Increase with StollerUSA’s Bio-Forge®

Griffithville, AR (March 7, 2012) — Arkansas grower Billy Tripp saw an 18 bu/ac increase after incorporating Stoller’s Bio-Forge® into his corn crop management program. Not only did Tripp see an increase in yield, but he also saw better color and more uniformity across the field after applying StollerUSA’s flagship product.

Tripp Farms, located in central Arkansas, operates 2,000 acres of corn, rice and soybeans. An area known for high wind and heat, Tripp’s focus was to manage the impact of the adverse growing conditions and maximize yield results.

"We knew from previous experience how damaging the weather here can be, but after applying Bio-Forge it was easy to see the plants’ ability to endure the stressful conditions." states Billy Tripp. “The crop looked healthier all season…and the harvest yield data confirmed our expectations. Bio-Forge works!”

Tripp applied Bio-Forge as a foliar spray late in the season to combat the stressful high heat and dry conditions. Soon after application, he noticed kernels were larger with a smaller, darker red cob, which resulted in the significant boost in yields.

"Bio-Forge is the most effective stress management product available," clarified Dr. Wayne Smith, Plant Physiologist and General Manager at StollerUSA. “Bio-Forge performs especially well in tough growing conditions like those experienced on Tripp Farms in 2011.”

Maximizing the genetic expression of plants, Bio-Forge is a proprietary formulation designed to promote plant vigor while managing excess ethylene and the stress of extreme temperatures, drought conditions, high plant populations, excess moisture — even herbicide damage. It up-regulates key genes to offset stress and maintain optimal hormone balance so plants can function properly. It is easy to use and can be applied anytime in the growing season — as a seed, in-furrow or foliar treatment.

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Stoller Technology Brings Real Education & Real Results To Local FFA Test Plots

Arthur, Ill. (February 16, 2012) — StollerUSA recently sponsored two test plots in Southern Illinois to help local FFA chapters experience the advancing technology available to the growing agriculture industry. The two test plots at Unity and Arthur High Schools, located in Tolono and Arthur, Ill., demonstrated the importance of maintaining plant health throughout the entire growing season to produce higher yields and increased ROI.

Local agronomists and FFA educators worked closely with StollerUSA sales representative, Rick Gaffney, to develop a hands-on learning experience. At Tolono, trial soybeans were planted in mid-May at a 150,000 plant population in a 40-acre plot. The trial included applications of Bio-Forge®, Sugar Mover™ and Harvest More™ Urea Mate. FFA members witnessed the impact of adverse weather conditions as summer arrived and temperatures continued to rise. From field to field, crops dried out as drought-like conditions continued well into fall.

While many area soybean farmers reported crops had “shut down” due to the stress of hot temperatures and dry conditions, the FFA students monitoring the Stoller soybean test plots noted the plants continued to grow and maintain dark green foliage. Students digging up roots could visibly see larger root masses and nodulation when Stoller products were applied. The health benefits of using Stoller technology also paid off at the season end when the test plots were harvested.

“As spring turned to summer and summer to fall, we watched as fields nearby dried up from lack of rain and high temperatures,” explained Rick Gaffney, StollerUSA sales representative. “Using Bio-Forge and other Stoller products, the test plots stayed healthy and green all season and resulted in some pretty impressive yields.”

Harvested in early October, both plots survived a challenging growing season and produced significant yield increases. Students worked with a local grower to harvest the Arthur plot which resulted in 57 bu/acre — a 4.81 bu/acre increase over the control plot. The Tolono 40 acre soybean field also produced high yields with 57 bu/acre.

“With the average age of today’s farmer at 57, we want to do everything in our power to help the future farmers gain the knowledge and experience they’ll need to succeed,” explains Dr. Wayne Smith, General Manager at StollerUSA. “Today’s farmers need to be in tune with their plants to maximize crop yield. Stoller plant performance technology helps to deliver healthier, stronger plants and higher yielding crops.”

FFA and agricultural education is designed to prepare students for a lifetime of educated choices. StollerUSA is proud to support FFA and help young people learn lasting skills to ensure the future of agriculture. By teaching tomorrow’s leaders the importance of advanced technology StollerUSA can ensure the success of the agricultural industry for years to come.
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Arkansas State Record Grower Increases Rice Yield by 11 bu/ac Using Stoller’s X-Cyte™ Technology.

Gregory, AR (January 25, 2012) — Arkansas farmer Perry Galloway experienced an 11 bu/ac increase after treating rice crops with Stoller’s new proprietary cytokinin formulation, X-Cyte™. Designed to enhance pollination in high heat conditions, X-Cyte allowed Galloway’s rice to flourish in temperatures as high as 100 degrees.

Galloway's farming operation, located in east central Arkansas, includes 8,000 acres of corn, rice, cotton and soybeans. In addition to his impressive rice yields, Galloway placed first and third in the 2010 NCGA Irrigated Arkansas at 261 and 243 bu/ac, respectively. In 2011, Galloway won the full season soybean division (Arkansas Soybean Association) with 84 bu/ac and placed second and third in the NCGA Irrigated Arkansas with 259 and 239 bu/ac. With the high temperatures and sandy loam soil in Arkansas, Galloway can rely on crop stress as a yield-inhibiting factor each year.

“I was impressed with Stoller Technology’s ability to maintain and even improve overall crop health,” explained Galloway. “We decided to test X-Cyte on a 40 acre field of rice. We applied it with our insecticide so it was easy … and with over 10-bushel-per-acre increase it proved to be very effective.”

Galloway used a pint of X-Cyte per acre one week prior to heading. The product was applied to half of an 80-acre field and was added to the tank mixed with insecticide. He planted mid-May and applied X-Cyte in August. At the plant level Galloway noted increased root mass and stronger greener stalks. Calculating the product’s impact on his bottom line, Galloway estimated a 7 to 1 ROI.

“X-Cyte’s outstanding ability to meet the challenges of high heat conditions is unlike any product in the field,” stated StollerUSA General Manager Dr. Wayne Smith. “We see dramatic results anywhere extreme heat conditions are prevalent.”

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http://www.youtube.com/stollergroup
Hula includes Stoller Technology in Corn Crop Management Program that results in 429 Bu/Acre Yield

Charles City, VA (January 17, 2012) — A 429 bu/acre corn yield is impressive even in ideal growing conditions. But the fact that progressive farmer, David Hula achieved such an outstanding yield response in a season marked by excessive moisture followed by drought-like conditions and the impending threat of hurricane Irene is nothing short of amazing.

Hula has actively participated in the National Corn Growers Association yield competitions since the late 1990s, achieving state and regional records with his no-till corn on corn. He credits his continued success in adapting successful crop management practices and integrating new technology to push yields. "We tried some new technology again this year and Stoller’s Bio-Forge™ and X-Tra Power™ were two of the products we used,” shared Hula. "We had more sunlight than in past years and that helped to enhance photosynthesis and ultimately yield.” Because of a difficult planting and harvest season, Hula was limited on the number of test and control plots he was able to evaluate. However, he indicated strong seedling vigor and large root systems where he had used the Stoller technology. "We are looking for technology that will help us get the most out of the hybrids we plant. And we’ll be testing Stoller again in 2012 to verify consistent, positive results,” explained Hula.

Bio-Forge, StollerUSA’s flagship product, maximizes genetic expression by up-regulating key genes associated with root development for enhanced nutrient uptake and appropriate hormone balance. Bio-Forge also offsets the effects of transient stress by helping to control ethylene levels.

"Stoller technology — and specifically Bio-Forge — offers farmers a new, inexpensive tool to help manage their crops,” explains StollerUSA General Manager and Plant Physiologist Dr. Wayne Smith. “We’re pleased to see so many progressive growers, like Dave Hula, use the technology to push the limits of crop production. Our goal is to take the insight and experience of these same growers to help us drive the direction of crop health innovation.”

More than one third of the 2011 National Corn Growers Association yield contest winners, including Hula, employed Stoller technology in their crop management programs. Farmers across the nation note that Bio-Forge produces large, robust root systems with continuously growing root tips, early and vigorous growth of seedlings, increased nodulation, thicker and sturdier stalks and deep, green foliage. Application timing is extremely flexible. Options include in-furrow or banded with starter solutions, through irrigation systems, as a foliar spray or mixed in the tank with most pesticides. Rates may vary depending upon a grower’s situation but the standard recommendation is 1 pint/acre.

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www.stollerusa.com
1-800-539-5283
Iowa State Research Among Data Presented at the 19th Annual U.S. Ag Associates Conference

HOUSTON (January 10, 2012) — New research from Iowa State University announced substantial yield increases on corn and soybean research plots in Ames, Iowa. A total of three soybean and corn research plots, established by researchers from Iowa State and Stoller representatives, were designed to test the yield impact of Stoller product applications.

The study revealed yield increases up to 9 bu/acre on soybeans and 22 bu/acre on corn. University researchers from Iowa State utilized Stoller’s Bio-Forge® and X-Tra Power™ to advance the study of how to manage crop stress and improve yields of row crops. Tested and validated at more than 50 universities nationwide, Stoller’s Bio-Forge has proven to manage plant growth hormones to an optimal level — thus increasing root mass, plant health, and yields.

“StollerUSA maintains strong relationships with many universities to validate the efficacy of our current products and to accelerate the development of new technologies and products,” shared Wayne Smith, General Manager at StollerUSA. “Growers want proof that our products perform. By working with universities we have the validity of scientific research. By working with farmers across the nation we demonstrate proven performance under real world conditions with the pressures of mother nature and ROI calculations.”

In addition to the findings from the Iowa State research, university and field trial results from across the world will be presented at the U.S. Ag Associates Conference in January 2012, which has 130 registrants. Now in its 19th year, the U.S. Ag Associates Conference, held in Houston, is an information and idea-sharing gathering sponsored by Stoller Enterprises, Inc.

This year’s preliminary Conference Agenda includes presentations by university researchers from Penn State, North Carolina State, University of Florida, and University of Illinois as well as researchers from Canada, Peru, Brazil and Australia. A total of more than 50 presenters will share their thoughts, ideas and findings to advance agriculture. Climate challenges and population growth fuels the U.S. Ag Associates Conference’s quest to discover new and more efficient ways to increase yields while controlling costs.

"U.S. Ag Associates Conference brings people together to discuss the changing problems growers are facing in their fields," states Jerry Stoller, Founder and CEO of StollerUSA. "I arranged this conference to share research and ideas to better understand crops and the importance of learning from those around you. It’s a unique opportunity ... a farmer in Ohio has the ability to take something discovered in Brazil or elsewhere in the world and apply it to his own row crops or vice versa.”

To learn more about the 19th Annual U.S. Ag Associates Conference and view a full agenda for this year’s presentations visit www.usagconference.com.
Think Different

The Stoller Group is dedicated to "thinking different". The future of crop production isn't endless irrigation and fertilizer additions. The future of crop production is giving the plant the ability to protect itself against diseases and insects and grow normally even under climatic stresses. New technology from Stoller is enabling that future — today. It’s part of how we’re thinking differently about crop production. Let the plant do it. Learn more at AdvancingAG.com

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Steinhurst Farms Wins
StollerUSA 2012 Calendar Contest

Creston, Ohio (January 4, 2012) — StollerUSA, the leader in plant performance technology, recently announced John Steiner of Steinhurst Farms as the 2012 StollerUSA Calendar Contest Winner. Steiner started using Stoller’s Bio-Forge® and Foli-Zyme six years ago and continues to rely on both for improved yield and quality.

John Stiener owns Steinhurst Farms with his two nephews Kurt and Eric. The farm includes 1,200 acres on 700 owned and 500 rented acres. Their herd has a RHA of 31,000 pounds per cow on 3X milking schedule. Located in Wayne County, Ohio the Steiners are sixth and seventh generation dairymen.

While traditional practice calls for one alfalfa acre per cow to provide ample forage, Steinhurst Farms is able to feed their entire 430 herd on just 230 acres. With Stoller’s Bio-Forge and Foli-Zyme they notice thicker, healthier alfalfa crowns after each treatment. Steiner adds the Stoller products right into the sprayer tank with insecticides that are applied after each cutting.

“We are impressed with the increase of forage tonnage and quality when using Stoller products,” stated Steiner. “We have a tight cutting schedule and we need our alfalfa stand to be hearty and robust. Innovative products, like Stoller technology, help us increase the efficiency and profitability of our operation.” Steiner also sells wheat, soybeans and corn and raises all of the farm’s own feedstuffs. He noted that maintaining high soil fertility and crop health is a must, especially when grain prices are high.

StollerUSA’s General Manager, Dr. Wayne Smith agrees stating, “We were pleased to select John as our 2012 winner. Steinhurst Farms’ compelling story is reflective of what a lot of progressive farmers across the nation are experiencing. Improved crop health that comes with Stoller technology translates into a better bottom line. We understand how important it is for farmers to get the most out of each acre, and we design products that to do just that.”

In order to win the contest, Steiner sent in his story and photos of his alfalfa crop. Steiner received the $500 grand prize and was a featured farm in the 2012 Real Farmers. Real Results. StollerUSA calendar. Learn about StollerUSA’s annual calendar contest here: www.stollerusa.com/calendar.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is enhanced marketable yield, improved return-on-investment and improved tolerance to disease and other stress. Only Stoller products contain Stoller’s proprietary technology that is proven to ensure optimum plant growth by maintaining appropriate hormone balance in combination with supporting nutrients. Validated by universities nationwide, Stoller’s unique formulations result in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential.

About StollerUSA

Celebrating 40 years in agribusiness, StollerUSA markets a full line of products to help farmers increase crop yield and quality. StollerUSA, headquartered in Houston, is actively engaged in basic and practical research to enhance crop productivity in more than 50 countries.
StollerUSA Technology Produces 4.8 bales/acre of Cotton for Texas Grower

Hart, TX (December 28, 2011) — Cotton produced in Northern Texas by grower Steven Albracht overcame extreme heat and drought conditions with StollerUSA technology. Using Stoller’s flagship product, Bio-Forge®, Albracht’s cotton crops continued to grow all season, reaching a 4.8 bales/acre yield.

In his second year of applying Stoller products, Albracht used applications of Stoller’s Bio-Forge, Sugar Mover™ and X-Tra Power™ to increase nutrient uptake to help maximize ROI on his 600-acre cotton operation.

Albracht put the newly formulated seed treatment option, Bio-Forge® ST, to the test. With no rain from March until late summer, neighboring crops started to shut down as high winds ripped through the Texas Panhandle and temperatures hovered around 100 F. Albracht believes his cotton plants were kept healthier and continued to grow due to the early application of Bio-Forge. Bio-Forge, a proven crop stress management tool, enhanced root systems allowing Albracht’s cotton crop to maintain health all season.

Stoller’s X-Tra Power ensured early seedling vigor and Sugar Mover was used to redirect the sugars from the vegetative to fruiting parts of the plant — thus increasing boll set and size.

“[I’m] always trying to find something new to push my yields,” explained Steven Albracht in early summer. “Combining today’s technology with Stoller products we’re going to reach that 2,300-2,500 pound mark.” Final harvest results of 2,440 pounds of lint/acre proved Albracht’s hunch was right.

“I don’t care if it’s a rainfall or drought — Stoller products help take some stress off of your crops,” explains Steven Albracht. “Healthier plants mean bigger root systems and bigger root systems mean more yields and higher quality lint.”

“No area was more stressed in 2011 than the Texas panhandle,” stated Wayne Smith, General Manager of StollerUSA. “Albracht is just one of many farmers to utilize Stoller technology to meet tough conditions head on. It’s technology that consistently performs but really shines when crops — cotton, corn, soybean and many others — are under extreme stress.”

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www.stollerusa.com
1-800-539-5283
“Test the Best” Challenge Confirms Yield-Enhancing Benefits of Stoller’s Bio-Forge®

Villa Grove, IL (November 8, 2011) — StollerUSA’s Bio-Forge® prevailed through a regional “Test the Best” grower challenge that took place in the Illinois Corn Belt. “We’re encouraged when we see progressive farmers ready to take that next step in exploring production potential,” shared StollerUSA’s General Manager Dr. Wayne Smith. “We know our technology will stand up to the challenge plus it gives more farmers exposure to Stoller technology and why it works.”

The challenge started out as a friendly competition among progressive growers in Central Illinois. The rules were simple. Start with a select corn hybrid and implement new practices to reach 300 bu/acre or better yields. Participants tested new inputs and experimented with the application rates and timings of other accepted products. The result was “years” of trial and test experiences rolled into one year … revealing new technologies that performed.

One of the new crop management practices tested by Jason and Adam Watson of Watson Farms in Villa Grove, IL was the use of Stoller Technology. Specifically Bio-Forge® ST seed treatment and Bio-Forge with foliar fungicide applications were proven to enhanced yields.

“When we decided to take on the “Test the Best” challenge the research I did on Stoller Technology jumped out at me,” explains Jason Watson. “I wanted a way to preserve the seed’s genetic potential. And the stress management attributes of Bio-Forge made sense.”

As it turns out 2011 was a very stressful year for Central Illinois farmers. A cold and wet spring meant farmers were late getting the crops planted. The damp spring was followed by extremely hot and dry pollinating conditions. “I guess if you were going to test a stress management product, 2011 was a good year to do it,” shared Jason Watson.

The difference in corn plants treated with Stoller technology was visually apparent. The treated plants were healthier and greener — even during the peak of drought conditions. Closer inspection revealed better ear placement higher on the stalk where sunlight is more readily available for enhanced photosynthesis. More importantly, Watson’s trials using Stoller technology revealed a consistent yield boost of at 10 bu/acre over the untreated plots.

In addition to using Stoller technology on corn plots, the Watsons employed a complete Stoller program on their soybean crop. Watsons saw a 5–15 bu/acre yield boost using the Stoller program — including Bio-Forge ST seed treatment, Bio-Forge and X-Tra Power™ foliar applications followed by Sugar Mover to enhance pod fill. “The county soybean average is somewhere around 53 bu/acre. We expect more out of our crops,” explains Adam Watson. “It’s not about how much something costs … it’s about how much can we make. Stoller products offer a tremendous return.”

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StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is enhanced marketable yield, improved return-on-investment and improved tolerance to disease and other stress. Only Stoller products contain Stoller’s proprietary technology that is proven to ensure optimum plant growth by maintaining appropriate hormone balance in combination with supporting nutrients. Validated by universities nationwide, Stoller's unique formulations result in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential.

About StollerUSA

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Stoller Enterprises Hires Dr. Michael D. Orzolek to Lead Vegetable Production Research

HOUSTON (July 5, 2012) – Stoller Enterprises, Inc. announces the addition of Dr. Michael D. Orzolek to the research and development team. Dr. Orzolek will work closely with Stoller Enterprises’ scientists investigating the increase of plant productivity and plant health using various phytohormones, plant nutritional inputs, plant metabolites and small molecules as they relate to the increased energy activity from growing plants.

“I am very proud to announce Michael’s addition to the Stoller Enterprises team,” says Jerry Stoller, president and CEO. “The addition of such a well-respected researcher should indicate to all growers, agronomists, and researchers, that Stoller Enterprises, Inc. is dedicated to new science that increases the epigenetic response of plants enabling them to express their genetic activity to a higher extent.”

Orzolek has spent the last 30 years as a researcher and professor at Pennsylvania State University in vegetable crops. In 1998, he was instrumental in founding the Center for Plasticulture and the High Tunnel Research and Education facility, both of which have grown exponentially in the last 14 years. Plasticulture (growing vegetables under plastic) and high tunnels (cost-effective plastic greenhouses) are two of the most important ways for specialty crops to give growers consistent economic returns. Orzolek is one of the most widely known plasticulture researchers and has been very influential in offering user- and cost-friendly options for growers worldwide.

In addition to his vast research and teaching duties, Orzolek is also credited in the development of the Simply Sweet Onion and the expansion of the vegetable education program at the Mid-Atlantic Fruit and Vegetable Convention.

“We are thrilled that Michael sees and understands the great strides Stoller Enterprises has been making year after year to bring real solutions to growing farmer obstacles,” says Stoller. “Our primary commitment remains to the grower and their plants’ productivity. Michael will be a welcome addition as Stoller Enterprises continues to lead the way in plant research and innovation.”

Orzolek earned a bachelor’s degree in biology from Alliance College in Pennsylvania, a master’s degree in horticulture from West Virginia University, and a doctorate in horticulture from the University of Maryland. He will join Stoller Enterprises, Inc. later this summer after he retires from Pennsylvania State University.

About Stoller Enterprises, Inc.

Headquartered in Houston, Texas and celebrating over 41 years in business, Stoller Enterprises is dedicated to helping producers enhance yields by maximizing genetic expression. Stoller Enterprise’s R&D team is located in an independent research facility allowing them access to the most advanced plant research technology. In addition, close ties with universities throughout the nation offer Stoller’s R&D team crop perspective with a regional issues emphasis. Only Stoller products contain Stoller’s proprietary technology that is proven to ensure optimum plant growth by maintaining appropriate hormone balance and activity. In combination with proper nutrition and good farming practices, the result is enhanced marketable yield, significant return-on-investment and improved stress tolerance. Validated by universities nationwide, Stoller’s unique formulations outperform traditional products and result in healthier, more productive crops that are better able to achieve their full genetic potential.
StollerUSA Adds Mawson and Newholm to Support Growing Demand

HOUSTON (June 21, 2012) – StollerUSA, the leader in plant performance technology, has announced the addition of Steve Mawson, the sales representative for Nebraska, and Matt Newholm, the sales representative for Wisconsin. Their main focus is to meet growing demand and interest for Stoller products in their respective territories.

Mawson, an Illinois native, will be responsible for serving growers and retailers in Nebraska. A University of Illinois graduate and previously a manager for United Suppliers, Mawson will be able to utilize his past experiences and expertise to develop effective high-yielding crop management strategies.

Newholm will work with Ag retailers and farmers to grow production and profits in Wisconsin Ag operations. Newholm’s responsibilities include supporting dealers and distributors and introducing growers to new Stoller products and strategies to enhance crop production. Newholm has a B.S. in Agricultural Business from the University of Wisconsin-Platteville, and previously served as an energy and agronomy salesman rep with a local co-op. Along with his father and brother, Newholm operates a farm in Kansasville, WI.

“We are excited to welcome Steve and Matt to our team of crop experts. Their passion for effective solutions to agricultural challenges and dedication to advancing agriculture compliments StollerUSA’s mission nicely,” stated Dr. Wayne Smith, General Manager of StollerUSA. “Their expertise will effectively support the growing demand for Bio-Forge® and other Stoller products.”

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StollerUSA Hires Shelli Male to Support Growing Demand for Stoller Products

HOUSTON (March 8, 2012) — StollerUSA announces the addition of Shelli Male to the StollerUSA marketing team. Male will work directly with Jeff Morgan, marketing director, to develop marketing messages, product literature, and other sales tools to educate growers, retailers and crop consultants on the benefits and use of Stoller Technology like Bio-Forge®.

As the company’s marketing and communication efforts continue to expand, Male will be working to increase consumer awareness of Stoller’s advanced line of plant performance products. She will be helping to develop and distribute marketing tools to support the sales force, distributor and retail channels resulting in greater ease of use with Stoller Technology to the end user. With more than 25 years of advertising agency experience, Male is a skilled communicator with strengths in creative design and marketing strategy. Working on brands like AAA East Central, HindlePower, Inc., F.L. Smidth-Fuller Engineering Group and many others helped Male build a strong base in managing and executing successful campaigns.

“"As farmers understand and see the positive results Stoller products can help them achieve, so grows the demand for support communications,” shared StollerUSA’s Marketing Director Jeff Morgan. “Shelli’s experience in creative strategy and communications along with her enthusiasm and diligent work habits will prove to be invaluable to our marketing team.”

Male graduated from duCret School of the Arts and has practical experience in design, marketing and brand identity. Prior to joining StollerUSA, Male ran her own graphic design business for nearly ten years.

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StollerUSA Hires Tim Kuechmann to Help Reach Growing Demand

HOUSTON (November 14, 2011) – StollerUSA announces the addition of Tim Kuechmann as Sales Representative for the Pacific Northwest Territory in order to reach growing demand for Stoller products.

As the use of Stoller’s advanced line of plant performance products continues grow, Kuechman will focus on Idaho, Oregon and Washington providing technical and sales advice to progressive growers in his territory. He brings more than 23 years of crop consulting experience in various agricultural sales and service positions throughout the Northwest states.

"Stoller continues to expand across the country, helping more growers increase plant health to produce record yields. As the interest in Stoller technology increases we’ve responded by expanding our dedicated support network with accomplished experience in the ag chemical industry," explains Dr. Wayne Smith, General Manager of StollerUSA. "Tim’s positive attitude and strong work ethic, combined with his full resume of 30+ years of agronomy knowledge will prove to be a valuable asset in the Northwest Territory."

Kuechmann holds a B.S. in Agronomy from Kansas State University. Most recently working at Parker Ag Services as an agronomist, he provided analysis and recommendations to best fit farmers’ needs in the field.

About StollerUSA

Celebrating 40 years in agribusiness, StollerUSA markets a full line of products to help farmers increase crop yield and quality. StollerUSA, headquartered in Houston, is actively engaged in basic and practical research to enhance crop productivity in more than 50 countries.
Company Overview

Based in Houston, StollerUSA has been dedicated to helping producers naturally enhance their crops for more than 40 years. Our products are designed to ensure optimum hormone balance and activity, resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. StollerUSA products can be used either as a planned preventive or as an in-season treatment in conjunction with a producer’s existing program.

StollerUSA was formed by Jerry Stoller, the company’s president and CEO, in 1970. He is recognized as a leading authority on plant nutrition, and brings more than 45 years of global production agriculture experience and plant nutrition expertise to the company.

In the early 1990s, Stoller began experimenting with and researching the science of genetic expression in plants. The revolutionary technology produced from this research takes the guesswork out of maintaining healthy crops through the management of plant hormones, micronutrients, and other plant cofactors. StollerUSA provides these necessary inputs that are not available in most traditional plant nutrition programs.

Representatives in more than 50 countries are active in the research, development and distribution of StollerUSA products. Their international work has propelled them into the forefront of this revolutionary technology.

In addition to plant nutrition products, the company carries a complete line of conventional fertilizers and micronutrients.
Jerry Stoller

Jerry Stoller founded StollerUSA in Houston, as the president and chief executive officer in 1970. Stoller brings more than 40 years of production agriculture experience and plant nutrition expertise to the company. He has been commissioned for both public and private projects around the world and works with virtually all crops, from coffee to corn.

In the early 1990s, Stoller began researching the genetic expression of plants. The revolutionary approach produced from this research takes the guesswork out of maintaining healthy crops through the management of plant hormone levels and micronutrients throughout the plant growth cycle, maintaining optimum hormone balance. Through this process, maximum genetic expression is achieved, resulting in healthier plants better able to withstand the effects of stress under various conditions.

Frequently traveling to the 40 countries where StollerUSA has a presence, Stoller conducts research and studies various crops under numerous growing conditions. He brings this wealth of research knowledge and experience when combating the problems faced by growers in the United States.

Stoller was named the Southwest Region’s Entrepreneur of the Year for the Retail-Wholesale Industry in 1998 by the American Horticulture Society and serves on the board of directors of The Fertilizer Institute. He is actively involved in the American Society of Agronomy, Crop Science Society, and the Soil Science Society of America.

In 1960, Stoller received a Master of Science degree in soil science from Cornell University. He earned a Bachelor of Science degree in agricultural science from the University of Illinois in 1959.
Jeff Morgan
Marketing Director, StollerUSA

Jeff Morgan has served as the marketing director with StollerUSA for seven years and directs the company's marketing and communications efforts while working to educate the agricultural industry about StollerUSA’s revolutionary technology. Morgan also develops technical product literature and other sales tools to educate growers, retailers and crop consultants and improve awareness and sales of Stoller products and technology.

Morgan’s extensive marketing and communications background includes more than 20 years with several Houston advertising agencies and numerous consulting positions for clients like Exxon Chemical, Haliburton, Hewitt, Criterion Investments and many others.

A Sergeant in the U.S. Army, Morgan was honorably discharged after three years stationed in Europe and the U.S. as a mechanized infantry squad leader and weapons specialist.

Originally from West Virginia, Morgan fostered his interest in marketing and design at West Virginia University studying art, design and art history. He graduated from The Art Institute of Houston in 1986 with an emphasis in advertising design. Morgan enjoys spending his free time traveling and working on home improvement projects with his wife.
Dr. Wayne Smith  
*General Manager, StollerUSA*

Dr. Wayne Smith joined StollerUSA in 2009. As General Manager, Dr. Smith combines more than 30 years of experience in management, marketing and sales in the agricultural chemical industry with an impressive academic pedigree in plant physiology. His unique background and qualifications bring a deep understanding of the market forces and leading-edge technology that drive the agricultural industry forward and contributes to the increasing demand for Stoller products.

After receiving his Ph.D. in Plant Physiology from North Carolina State University, Dr. Smith quickly worked his way toward Director and various executive-level positions for many notable corporations, including Union Carbide, Terra Industries, Cerexagri and United Phosphorus. For more than 10 years, Smith acted as President of Smith & Associates, a management consulting company he founded to meet specific niche market needs in the agribusiness marketplace and leverage his passion for agronomy, entomology, farming production practices, sales and marketing.

As General Manager of StollerUSA, Dr. Smith provides a dedicated leadership, strategic direction, and unparalleled industry expertise as Stoller continues to grow and service the increasing needs of the modern farm.

In his free time, Dr. Smith enjoys trips with his wife, Theresa, and exploring the wonders and history of the U.S. and other countries. He is an avid outdoorsman, enjoying boating and golf when time allows.
Dr. Albert Liptay

Dr. Albert Liptay has served as Director of Research and Development for Stoller Enterprises Inc. for more than five years. As Research Director, Liptay interacts with university professors and other scientists to validate modes of action and performance (experiments) of Stoller products. Liptay is responsible for the constant update of new biological literature, especially gene expression and systems biology. He also researches the effect of hormones on crop productivity and participates in joint discussions with Jerry Stoller and other scientists.

Over the last 25 years Liptay has traveled the world, gaining work experience and expertise in the field of horticulture. Before joining Stoller Enterprises Inc., Liptay was a research scientist with Agriculture Canada — the Federal Department of Agriculture for Canada. He also served as special adviser to Agriculture Canada at their headquarters in Ottawa, Canada. Liptay completed research sabbaticals at the Vegetable Research Institute in Geisenheim, Germany and the Biologische Institut II of Freiburg University in Germany and most recently with the Biology Department of Harvard University.

Liptay received a Bachelor of Science degree and a Master of Science degree in horticulture from the University of Guelph. He continued his education at McMaster University, where he received a doctorate in cell and molecular biology.

In his free time, Liptay enjoys conducting outside research on gene expression in biological organisms, spending time with his family and a variety of other activities including learning about history, archeology, music, art and languages.
Dr. Ron Salzman

Ron Salzman has served as Director of the Bioscience division for StollerUSA for four years. As Director, Salzman performs product testing in laboratory and greenhouse settings, studies mode of action on Stoller products using molecular, biochemical, and physiological methods and conducts gene expression profiling and validation research. In addition, Salzman presents research results at national and international meetings.

A plant science researcher since 1988, Salzman specializes in plant gene expression responses to biotic and abiotic stress. Salzman’s science background also includes work with grape research and viticulture.

A native of Northern Wisconsin, Salzman received his Bachelors degree from the University of Wisconsin in 1988. He continued his education at Purdue University, where he received his Masters and Doctorate degrees in Horticulture. After graduation Salzman completed postdoctoral work at Texas A&M University, in the Department of Biochemistry and Biophysics. In addition to his primary work at Stoller, Salzman is a visiting scientist at Texas A&M University, in the Department of Entomology.

In his free time, Salzman enjoys working with wood and growing fruit.
Dr. Michael Orzolek

Dr. Michael Orzolek serves as the lead vegetable production researcher at Stoller Enterprises. His focus will include investigating the increase of plant productivity and plant health using various phytohormones, plant nutritional inputs, plant metabolites and small molecules as they relate to the increased energy activity from growing plants.

Orzolek has spent the last 30 years as a researcher and professor at Pennsylvania State University in vegetable crops. In 1998, he was instrumental in founding the Center for Plasticulture and the High Tunnel Research and Education facility, both of which have grown exponentially in the last 14 years. Plasticulture (growing vegetables under plastic) and high tunnels (cost-effective plastic greenhouses) are two of the most important ways for specialty crops to give growers consistent economic returns. Orzolek is one of the most widely known plasticulture researchers and has been very influential in offering user- and cost-friendly options for growers worldwide. In addition to his vast research and teaching duties, Orzolek is also credited in the development of the Simply Sweet Onion and the expansion of the vegetable education program at the Mid-Atlantic Fruit and Vegetable Convention.

Orzolek earned a bachelor’s degree in biology from Alliance College in Pennsylvania, a master’s degree in horticulture from West Virginia University, and a doctorate in horticulture from the University of Maryland.
Dr. Melinda Klein

Melinda Klein serves as the Director of Soil Fertility and Plant Nutrition at Stoller Enterprises. As director, Klein will focus on the interaction of nutrients and plant growth regulators and the molecular mechanisms underlying these nutrients. Her main role will concentrate on research-oriented projects that will enhance Stoller's commitment to understanding and naturally enhance the genetic potential of plants.

Over the last 13 years Klein worked in a variety of fields including plant biology and molecular biology. Previously working with the University of Massachusetts and Baylor College of Medicine, she was a lead investigator and supervisor in the research departments.

Klein received her Ph.D. in Plant Physiology from Cornell University and received her B.S. in Plant Biology from the University of California at Davis, where she graduated with honors.
Bio-Forge® Unique Features & Benefits

**Bio-Forge Features:**
- Bio-Forge up-regulates key genes associated with stress:
  - DREB1A, Catalase, Dehydrin RAB18, RD29A
- Bio-Forge up-regulates genes controlling root hair growth to enhance nutrient uptake:
  - RLS4
- Bio-Forge reduces excess ethylene from stress but leaves ethylene required for normal functioning unaffected

**Bio-Forge Benefits:**
- Improved hormone balance for optimal plant functioning
- Bio-Forge ensures continuous new root growth for efficient nutrient uptake, especially nitrogen
- Bio-Forge helps to improve hormone balance for continued cellular viability and optimal plant functioning throughout the life of the plant

**Application Timing**
- Seed Treatment with 4 oz/ cwt of seed
- In-Furrow at planting at 1 pt/ acre (can be used with starter solutions)
- Foliar on corn: 1 pt/ acre at V4-V9
  Foliar on soybeans: V6 to flowering or up to the R1 stage of growth
- Fungicide Sprays: apply at 1 pt/ acre with the recommended fungicide rate and timing (apply a total of 1 pint per acre per season)

Stoller products are designed to unleash the power of the plants – by helping them to overcome stress, function more efficiently and achieve their full genetic potential.

Stoller Plant Performance Products are not replacements for sound agronomy and fertility programs. They work in concert with good farming practices for maximum yield and quality.

Always read and follow label instructions.

www.stollerusa.com
Bio-Forge® ST Unique Features & Benefits

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Bio-Forge ST Features:
- Bio-Forge ST up-regulates key genes associated with stress: DREB1A, Catalase, Dehydrin RAB18, RD29A
- Bio-Forge ST up-regulates genes controlling root hair growth to enhance nutrient uptake: RLS4
- Bio-Forge ST reduces excess ethylene from stress but leaves ethylene required for normal functioning unaffected

Bio-Forge ST Benefits:
- Enhances seed germination and early seedling growth.
- Insures early vigor, early root development and protection from stress on young plants, especially stress associated with cold Spring soils.
- Enhances root nodulation and nodule activity in legumes.
- Improved hormone balance for optimal plant functioning.
- Bio-Forge ST ensures continuous new root growth for efficient nutrient uptake, especially nitrogen.
- Bio-Forge ST helps to improve hormone balance for continued cellular viability and optimal plant functioning throughout the life of the plant.

Application Timing
- Seed Treatment with 2 oz/ cwt of seed
- Compatible with most herbicides, fungicides and insecticides. Always conduct a jar test prior to mixing with other chemicals.

Always read and follow label instructions.

www.stollerusa.com

Store above 40°F
X-Tra Power™ Unique Features & Benefits

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X-Tra Power Features:
- Includes Magnesium, Copper, Manganese and Zinc
- Formulated with selectively balanced co-factors
- Up-regulates key genes associated with phosphate uptake

X-Tra Power Benefits:
- Corrects micronutrient needs essential for early plant growth:
  - Mg: pumps nutrients into the roots
  - Cu: required for proper response of plant to ethylene
  - Mn: helps plant utilize energy and metabolize nitrogen
  - Zn: essential for cell membrane integrity and genetic expression
- Provides hormonal balance that promotes early root development and plant vigor during the first 2-3 weeks after planting to allow plants to take up soil nutrients and moisture for early development.
- Facilitates better phosphate uptake and utilization resulting in improved root growth, energy transfer, sugar movement and resistance to disease and stress.
- Tank mix flexibility and can be used with starter fertilizer, herbicides, insecticides and fungicides.

X-Tra Power Application Timing
- In-furrow or 2X2 - 1qt/ac on corn, can be used with starter fertilizers
- Foliar - 1 qt/ac at V3 on corn or 3rd trifoliate on soybeans

(apply a total of 1 quart per acre per season)

Always read and follow label instructions.
Stoller products are designed to unleash the power of the plants—by helping them to overcome stress, function more efficiently and achieve their full genetic potential.

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X-Cyte™ Unique Features & Benefits

X-Cyte Features
- Stoller’s X-Cyte™ is a key plant growth hormone—Cytokinin—that increases fertility in high temperatures during the stressful pollination or flowering period.
- X-Cyte up-regulates genes associated with sugar transport, increasing sugars in the reproductive parts of the plant.

X-Cyte Benefits
- Increased flowering and fruit set in high temperatures.
- Reduced physiological problems.
- Improved yields.
- Increased tillers on tillering crops.

Application Timing
- Corn: Pre-tassel at 1pt/acre when temperature is above 87°F.
- Soybeans: Pre-flower at 1pt/acre when temperature is above 85°F.
- Wheat: Flag leaf (Feekes 10) at 1pt/acre when temperature is above 68°F.

Always read and follow label instructions.
Stoller products are designed to **unleash the power of the plants** - by helping them to overcome stress, function more efficiently and achieve their full genetic potential.

Stoller Plant Performance Products are not replacements for sound agronomy and fertility programs. They work in concert with good farming practices for maximum yield and quality.

### Bio-Forge®
**Increases yield by inhibiting stress-generated ethylene for proper plant functioning**
- Bio-Forge reduces the negative effects of stress from drought, temperature extremes, pesticides and other sources in plants
- Increases productivity

**Application:** Foliar at 1pt/ac. Mixes easily and works especially well with pesticides.  
*Optional: Seed treatment (4oz/cwt)*

### X-Tra Power™
**Jump-starts germination and drives roots into the soil**
- Improves early plant vigor during the first 2-3 weeks after planting
- Helps with problems caused by other product applications
- Enhances root growth & increases stem/stalk diameter
- Improves stress tolerance

**Application:**  
- Starter - 1qt/ac on corn
- Foliar - 1 qt/ac at V3 on corn or 3rd trifoliate on soybeans
- In-furrow or 2X2 - 1qt/ac on corn

### PowerPlus™
**Increasing the effectiveness of nitrogen and improves crop quality and yield.**
- Keeps roots alive longer
- Promotes more efficient nutrient uptake
- Increase in stalk/stem diameter for improved performance with high plant populations
- Increase in ear size

**Application:**  
- Side-dress; inject 1/2 to 1 gallon per acre with 28% or 32% UAN on corn.

### Sugar Mover™
**Redirects sugar to the fruiting parts of the plant.**
- Shortens internodes
- Stronger flowering and increased ear/pod set
- Reduces excessive vegetative growth
- More even sizing of ears/pods

**Application:**  
- Corn - Foliar @ 1 to 2 pints per acre
- Soybeans - 1 to 2 pints per acre from early flowering to end of pod set

**Always read and follow label instructions.**

www.stollerusa.com
Think Differently. Learn how Stoller Technology can increase your hybrid's yield potential at www.StollerUSA.com

Dave Hula
Charles City, VA

Steven Albracht
Hart, TX

Donny Carpenter
Dimmit, TX

Perry Galloway
Augusta, AR

Joel Armistead
Adairville, KY

Sam Santini
Stewartsville, NJ

Grow like the Best

Stoller technology is used by many of today's most successful growers

Real Growers... Real Results

<table>
<thead>
<tr>
<th>Product</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Forge® X-Tra Power™</td>
<td>429.02 bu/acre corn No Till, Strip Irrigated</td>
</tr>
<tr>
<td></td>
<td>2011 Yield Contest Winner</td>
</tr>
<tr>
<td>Bio-Forge® Bio-Forge® ST</td>
<td>341.27 bu/acre corn Irrigated</td>
</tr>
<tr>
<td>Sugar Mover™ X-Tra Power™</td>
<td>2010 National Yield Contest Winner</td>
</tr>
<tr>
<td></td>
<td>370.38 bu/acre corn Irrigated</td>
</tr>
<tr>
<td></td>
<td>2011 National Yield Contest Winner</td>
</tr>
<tr>
<td>Bio-Forge® Bio-Forge® ST</td>
<td>312.98 bu/acre corn Irrigated</td>
</tr>
<tr>
<td></td>
<td>2011 Yield Contest Winner</td>
</tr>
<tr>
<td>Bio-Forge®</td>
<td>238.86 bu/acre corn Irrigated</td>
</tr>
<tr>
<td>Bio-Forge® ST</td>
<td>2011 State Yield Contest Winner</td>
</tr>
<tr>
<td>X-Tra Power™</td>
<td>82 bu/acre soybeans</td>
</tr>
<tr>
<td>X-Cyte™</td>
<td></td>
</tr>
<tr>
<td>Bio-Forge®</td>
<td>253.83 bu/acre corn No Till, Irrigated</td>
</tr>
<tr>
<td>Bio-Forge® ST</td>
<td>2011 State Yield Contest Winner</td>
</tr>
<tr>
<td>Sugar Mover™ X-Tra Power™</td>
<td></td>
</tr>
<tr>
<td>Bio-Forge®</td>
<td>306.49 bu/acre corn Non Irrigated</td>
</tr>
<tr>
<td></td>
<td>2010 National Yield Contest Winner</td>
</tr>
<tr>
<td>Bio-Forge®</td>
<td>277.49 bu/acre corn Non Irrigated</td>
</tr>
<tr>
<td></td>
<td>2011 State Yield Contest Winner</td>
</tr>
</tbody>
</table>

Kip Cullers
Stark City, MO

Bio-Forge®, Bio-Forge® ST, Sugar Mover™ X-Tra Power™

2010: 160.6 bu/acre soybean
NEW WORLD RECORD
2011: 108 bu/acre soybean
100-Bushel Club Missouri Soybean Association
Stoller technology is used by many of today’s most successful growers.

The technology behind the results

**Bio-Forge®**
Ensures plant health through stress situations by up-regulating specific genes associated with root development and reducing ethylene for significantly improved yield and quality.

**Bio-Forge® ST**
Cost-effective, university-tested seed treatment that ensures seed germination, enhances early root growth and offsets the effects of early stress to increase yields.

**Root Power**
Increases sugar production for larger, more uniform fruit and vegetable growth and enhanced plant health for improved resistance to nematodes, insects and diseases.

**Sugar Mover**
Sugar Mover redirects the flow of sugars in plants from the vegetative parts (leaves) to the fruiting parts of plants for significantly improved ear and pod fill.

**X-Tra Power™**
Provides hormonal balance that promotes early root development and plant vigor during the first 2-3 weeks after planting.

**X-Cyte™**
Increases fertility in high temperatures during the stressful pollination or flowering period. It up-regulates key genes associated with sugar transport to increase pollen strength and fertilize more kernels.

Think Differently. Learn how Stoller technology can increase your hybrid’s yield potential at www.StollerUSA.com
Case History

**Cotton Treated with Bio-Forge®**

<table>
<thead>
<tr>
<th>Profile</th>
<th>Steven Albracht</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Hart, Texas</td>
</tr>
<tr>
<td>Operation</td>
<td>2,000 acres of corn, cotton, milo and wheat</td>
</tr>
<tr>
<td>Challenge</td>
<td>Maximize lint production during intense weather conditions with no rain for five months, wind ranging from 35-40 mph and extreme temperatures of over 100°.</td>
</tr>
<tr>
<td>Solution</td>
<td>Applications of Bio-Forge® &amp; Bio-Forge® ST enhance root systems throughout the growing season. Robust roots offer increased nutrient uptake during harsh conditions.</td>
</tr>
<tr>
<td>Result</td>
<td>Bio-Forge applications gave plants an extra boost early on and allowed roots, stalks and bolls to continuously grow until fall. Applications of other Stoller products including X-Tra Power™ and Sugar Mover™ allowed plants to produce large bolls and enhanced overall health.</td>
</tr>
</tbody>
</table>

**ROI Analysis**

Use Bio-Forge for enhanced roots and nutrient uptake.

Applications of Stoller products produced 2,440 pounds of lint.

4.8 bales per acre of cotton.

**BACKGROUND:** Bio-Forge® is a stress-reducing yield enhancer that up-regulates key genes associated with stress tolerance and root development. Bio-Forge makes crops and plants stronger through a number of stressful conditions.

Bio-Forge is extremely flexible and can be used as a seed treatment (Bio-Forge ST) as a starter in furrow or as a foliar application with glyphosate or with late-season fungicide applications.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is enhanced, marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
**Case History**

**Corn Treated with Bio-Forge®**

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**ROI Analysis**

Apply Bio-Forge as a seed treatment and throughout the growing season.
- Yield increase of 43 bu/acre
- Bio-Forge applications allow for 371 bu/acre
- Boost yields to increase income.

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<table>
<thead>
<tr>
<th><strong>Profile</strong></th>
<th>Steven Albracht</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location</strong></td>
<td>Hart, Texas</td>
</tr>
<tr>
<td><strong>Operation</strong></td>
<td>2,000 acres of corn, cotton, milo and wheat</td>
</tr>
<tr>
<td><strong>Challenge</strong></td>
<td>Produce record corn yields even under extreme conditions with no rain and 100°F+ temperatures during much of the growing season.</td>
</tr>
<tr>
<td><strong>Solution</strong></td>
<td>Apply Bio-Forge® to relieve stress during tough growing conditions from planting through harvest.</td>
</tr>
<tr>
<td><strong>Result</strong></td>
<td>Apply Bio-Forge® and a complete Stoller program to relieve stress and enhance plant health. Seed treatment with Bio-Forge ST. Other products, including X-Tra Power™, X-Cyte™ and Sugar Mover™, application made through the irrigation system and aerial applicators at prescribed rates.</td>
</tr>
</tbody>
</table>

---

**BACKGROUND:** Bio-Forge® is a stress-reducing yield enhancer that up-regulates key genes associated with stress tolerance and root development. Bio-Forge makes crops and plants stronger through a number of stressful conditions.

Bio-Forge is extremely flexible and can be used as a seed treatment (Bio-Forge ST) as a starter in furrow or as a foliar application with glyphosate or with late-season fungicide applications.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is enhanced, marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
Case History

**Soybeans Treated with Bio-Forge® & Bio-Forge® ST**

### BACKGROUND

Bio-Forge® is a stress-reducing yield enhancer that up-regulates key genes associated with stress tolerance and root development. Bio-Forge makes crops and plants stronger through a number of stressful conditions.

Bio-Forge is extremely flexible and can be used as a seed treatment (Bio-Forge ST) as a starter in furrow or as a foliar application with glyphosate or with late season fungicide applications.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is enhanced marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.

### ROI Analysis

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Yield Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Forge® ST</td>
<td>2 oz/cwt</td>
<td></td>
</tr>
<tr>
<td>Bio-Forge®</td>
<td>1 pint/acre foliar</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5-15 bu/acre yield increase over untreated acres</td>
</tr>
</tbody>
</table>

### Profile

**Jason & Adam Watson, Watson Farms**

**Location**

Villa Grove, Illinois

**Operation**

More than 4000 acres of food-grade corn, seed corn and soybeans. In addition to farming, the Watsons run a seed treatment and seed sales operation.

**Challenge**

Considered a rotational crop grown to ensure healthy soil conditions and boost disease resistance, the challenge was to take soybeans beyond “rotational crop only” thinking and the 50 bu/acre yield barrier.

**Solution**

Treat seed with Bio-Forge® ST at a rate of 2 oz./cwt. Follow up with Bio-Forge 1 pt/acre foliar application at time of fungicide application. A complete Stoller program including Harvestmore Urea Mate 5-10-27, X-Tra Power™ and Sugar Mover™ was applied in selective trials.

**Result**

Treated soybean plants had 2-3 more nodes and pod clusters.

Fewer flower abortions.

Increased root mass and nodulation enhanced nitrogen fixation.

Healthier plants that endured the heat and drought stress conditions of a difficult growing season.
Case History

Soybeans Treated with Bio-Forge® & Bio-Forge® ST

BACKGROUND: Bio-Forge® is a stress-reducing yield enhancer that up-regulates key genes associated with stress tolerance and root development. Bio-Forge makes crops and plants stronger through a number of stressful conditions.

Bio-Forge is extremely flexible and can be used as a seed treatment (Bio-Forge ST) as a starter in furrow or as a foliar application with glyphosate or with late season fungicide applications.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is enhanced marketable yield, improved return-on-investment, resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.

ROI Analysis

Seed treat with Bio-Forge ST at 2 oz/cwt
1 pt/acre of Bio-Forge applied with glyphosate application
Yield increase of 8 bu/acre
ROI calculates to $96.00 per acre.

Profile

Robert Weber, Weber Farms

Location
Cropsey, Illinois

Operation
3,000 acres of soybeans and corn

Challenge
Protect seed investment and increase yields during challenging weather conditions with extreme heat and no rain.

Solution
Incorporate Bio-Forge® ST as a seed treatment and use Bio-Forge® with glyphosate application.

Result
Seed treatment with Bio-Forge ST allowed for healthier soybean plants early in the season. As the season continued, high heat and drought conditions deteriorated area crops. In contrast, Weber Farms noticed increased nodulation in the treated plants, larger root systems, more branching and pod set in soybeans.

When comparing control plants to treated plants, results showed that Bio-Forge’s stress management properties helped to increase pod size and reduce pod abortion.
Case History

**Corn Treated with Bio-Forge®**

**Profile**
- Security Seed & Chemical

**Location**
- Morganfield, KY

**Operation**
- Security Seed Research Farms

**Challenge**
- Bring increased yield potential to farmer customer base by testing and proving new technologies in local conditions. The region is challenged by variable soil conditions and stressful hot and dry growing conditions.

**Solution**
- Use Bio-Forge® with liquid fertilizer early in the season to help plants throughout the entire growing season.

**Result**
- Early vigor and healthier start with large stalk diameter provided obvious height differences between control and treated plants.
- During excessive heat Bio-Forge treated corn was 2-3° cooler, providing better conditions for pollination, resulting in increased yields.

### ROI Analysis

- Apply Bio-Forge with liquid fertilizer
- Yield increase of 14 bu/acre
- 6½:1 Return on Investment

**BACKGROUND:** Bio-Forge® is a stress-reducing yield enhancer that up-regulates key genes associated with stress tolerance and root development. Bio-Forge makes crops and plants stronger through a number of stressful conditions.

Bio-Forge is extremely flexible and can be used as a seed treatment (Bio-Forge ST) as a starter in furrow or as a foliar application with glyphosate or with late-season fungicide applications.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is enhanced, marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
# Case History

## Achieving a World Record Soybean Yield of 160.6 bu/acre

### Profile
- **Kip Cullers, K&K Farms**

### Location
- Stark City, Missouri

### Operation
World record soybean yield of 160.6 bu/acre in 2010. In addition to contest and research plots, Cullers’ multifaceted operation includes corn, soybeans, green beans and vegetables.

### Challenge
Looking for products and methods to beat his own 2007 World Record Soybean Yield of 155 bu/acre. Overcome the challenges of white mold, tall plants and heat stress. Plants are prone to putting energy into height rather than pod set and fill.

### Solution
Incorporate Stoller’s technology into the soybean program. Use Bio-Forge® as a seed treatment. Follow up with foliar applications of Bio-Forge, Frame™, Keylate® Mn, Sugar Mover™ and STO-01 (a new experimental product developed by Stoller).

### Result
Using Bio-Forge as a seed treatment, Cullers experienced a robust emergence and hearty seedlings. Increased root mass, with extensive new root growth and nodulation resulting in healthier, more vigorous plants.

Especially noteworthy was the size of the foliage at the first trifoliate stage. Enhanced photosynthesis and nodulation. Branching occurred as early as the V1 stage of plant growth.

After an extreme herbicide burn down, Cullers attributes the soybean plant’s ability to recover to the stress management benefits of foliar applied Bio-Forge.

Cullers’ approach focused on maintaining plant health and enhancing the plant’s ability to overcome and manage stress issues.

## Highlights

### World Record Soybean Yield - 160.6 bu/acre
- Early Germination
- Increased Root Mass
- Continuous Root Growth
- Earlier and Extended Nodulation
- Pod Clusters from Top to Bottom
- Good Pod Fill
- Improved Stress Management

ROI: With Bio-Forge® seed treatment at less than $4 per cwt of seed, Cullers estimates a solid return even for average yielding crops.

### BACKGROUND: Bio-Forge®
Helps plants tolerate stress by reducing the excess ethylene from stress in plant cells. Bio-Forge® promotes early germination and keeps roots growing for optimal nutrient uptake and hormone balance for enhanced quality and yields.

**Frame™** is designed to increase photosynthesis and resistance to disease pressures, while enhancing branching. **Keylate® Mn** reduces Manganese deficiencies, usually occurring when plants are small and helps plants recover from herbicide stress. **Sugar Mover™** facilitates the movement of photosynthates from leaf to grain for better pod fill.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is in enhanced marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
Case History

**Alfalfa treated with Bio-Forge®**

**Profile**

Buress Dairy Farm

**Location**

Luxemburg, Wisconsin

**Operation**

600 cow herd. 1,100 acres of corn, soybeans, alfalfa.

**Challenge**

Improve the quality of the haylage to optimize milk production and herd health.

High winds and extremely cold winters due to lake affect conditions stress the alfalfa crop.

**Solution**

Apply Bio-Forge® as a foliar spray application 7 to 10 days after each cutting. Supplement with X-Tra Power™, Sugar Mover and Harvest More Ureamate.

*Note: Stoller program is customized for specific soil and crop conditions.*

**Result**

Alfalfa treated with Stoller program had more and larger leaves. The leaves were located the entire length of the stem—not just at the crown. The plants stood tall making it easier to harvest and minimize waste.

The result was increased tonnage and higher quality haylage with better nutritional value and digestibility.

The alfalfa yield increased significantly, allowing the Buress Dairy to sell haylage to neighboring farms. They sold approximately 10 ton/day adding to the overall revenue generated by their farm.

**ROI Analysis**

**Alfalfa treated with Stoller Program, Bio-Forge®.**

Applied foliar 7 to 10 days after each cutting.

Increased tonnage and quality turned this feed crop into a revenue generator when excess was sold to neighboring dairy operations.

**BACKGROUND:** Bio-Forge® is a stress-reducing yield enhancer that up-regulates key genes associated with stress tolerance and root development. Bio-Forge makes crops and plants stronger through a number of stressful conditions.

X-Tra Power™ is formulated to enhance root growth and seedling vigor.

Sugar Mover effectively and efficiently increases the flow of sugars from the root system into the plant for increased yield.

Harvest More™ Ureamate is a dry soluble fertilizer that rapidly dissolves to meet nutritional deficiencies.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is in enhanced marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
Case History

Alfalfa Treated with Bio-Forge®

Profile
- Ron & Ray Vos Family Farms

Location
- Burlington, Wisconsin

Operation
- 400-acre dairy farm

Challenge
Maximize the feed value of alfalfa without adding significantly to the input costs. Grow feed that supports milk production and herd health/reproduction goals.

Solution
Use Stoller’s Bio-Forge® as part of the overall alfalfa management program. Apply with insecticide foliar spray 7 days after each cutting and 30 days between each cutting.

Result
With four cuttings harvested, Vos experienced a yield of 6.7 tons/acre. Higher yields eliminated the need to outsource additional hay, saving approximately $11,000 when compared to costs in 2008.

RFV (Relative Feed Value) of alfalfa treated with Stoller products is rated 189 with 21.26% crude protein. A significant increase over recent regional averages of 145 - 160 RFV.

New seeding established quickly while more mature fields remained hearty and continue to bloom, even after the hard frost experienced in early October.

Milk production has steadily increased as the alfalfa treated with Bio-Forge has been fed, with over 28% of the herd averaging over 100 lbs of milk/day.

ROI Analysis
Vos Farms was able to experience increased milk production.

More tonnage per acre eliminated the need to purchase hay from outside sources. Both factors add up to an improved bottom line.

BACKGROUND: Bio-Forge® is a yield enhancer and stress reducer for all crops. Bio-Forge makes crops and plants stronger and better able to live through a number of stressful conditions.

Bio-Forge offsets the negative effects of plant stress caused by drought, excessive moisture, frost, herbicide damage and other crop stressors.

Proven to enhance a plant’s natural ability to overcome damage caused by disease and insects to increase productivity and overall yield, Bio-Forge may be applied as a seed treatment, in-furrow or as a foliar spray application.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is in enhanced marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
Case History

**Corn treated with Bio-Forge® & PowerPlus™**

<table>
<thead>
<tr>
<th>Profile</th>
<th>Hurley Farms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Curlew, Iowa</td>
</tr>
<tr>
<td>Operation</td>
<td>5,000 acres of corn and soybeans</td>
</tr>
<tr>
<td>Challenge</td>
<td>Find ways to push corn crop yields to the next level while still maintaining operation efficiencies and target margins. Meet the challenges of corn-on-corn production. Overcome the challenges of the 2009 growing season which was extremely dry and cool. The planting and harvest period were extremely wet.</td>
</tr>
<tr>
<td>Solution</td>
<td>Apply Bio-Forge® as a foliar spray application. Use PowerPlus™ as a side dress application with nitrogen.</td>
</tr>
<tr>
<td>Result</td>
<td>Plants treated with Stoller products were noticeably healthier than surrounding crops. They remained green and vigorous throughout the stressful weather conditions of the growing season. Calculations showed that Hurley Farms experienced a 4-to-1 return on the investment of Stoller products.</td>
</tr>
</tbody>
</table>

**ROI Analysis**

Corn treated with foliar application of Bio-Forge® showed 13.2 bu/acre increase.

Corn side dressed with PowerPlus™ showed 9.8 bu/acre increase.

**BACKGROUND:** Bio-Forge® is an antioxidant with growth-enhancing co-factors for all crops. Bio-Forge makes crops and plants stronger and better able to live and flourish through a number of stressful conditions.

PowerPlus™ is a combination of micronutrients and other co-factors that encourages more cell division and keeps cells alive longer in high-population planting. Roots and base of plants are established and fortified to support growth and sustain crop health while maximizing the efficiency of nitrogen and uptake of nutrients.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is in enhanced marketable yield; improved return-on-investment; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential. In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
Case History

Wheat Crop

ROI Analysis

<table>
<thead>
<tr>
<th>Application</th>
<th>Cost Per Acre</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Forge® seed treatment followed by foliar</td>
<td>Cost per acre:</td>
<td>85 bu/acre</td>
</tr>
<tr>
<td>applications of Bio-Forge</td>
<td>approx. $20.00</td>
<td></td>
</tr>
<tr>
<td>X-Cyte™ (.5 pint/acre) at pre-seed head emergence</td>
<td>Cost per acre:</td>
<td>10 bu/acre increase</td>
</tr>
<tr>
<td></td>
<td>$5.00</td>
<td>Approx. $50 more per acre</td>
</tr>
<tr>
<td>X-Cyte (1 pint/acre) at pre-seed head emergence</td>
<td>Cost per acre:</td>
<td>25 bu/acre increase</td>
</tr>
<tr>
<td></td>
<td>$10.00</td>
<td>Approx. $125 more per acre</td>
</tr>
</tbody>
</table>

Profile | Ed Shoup
Location | Orville, OH
Operation | Over 1800 acres
Challenge | How to take good wheat crop yields to the next level - increasing both yields and profits
Solution | Use Stoller products - Bio-Forge® to optimize growth and yield and X-Cyte™ to strengthen pollination.

BACKGROUND: Bio-Forge® is an antioxidant with growth-enhancing co-factors for all crops. Bio-Forge makes crops and plants stronger and better able to live through a number of stressful conditions. X-Cyte™ is a plant growth regulator and yield stimulant that effectively promotes plant health.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is in enhanced marketable yield; improved return-on-investments resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential.

In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
Case History

**Wheat seed treated with Bio-Forge®**

<table>
<thead>
<tr>
<th>Profile</th>
<th>Donny Carpenter Farms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>4,000 acres in Dimmitt, Texas</td>
</tr>
<tr>
<td>Operation</td>
<td>Pivot irrigation on wheat and corn crops</td>
</tr>
<tr>
<td>Challenge</td>
<td>How to take good wheat crop yields to the next level increasing both yields and profits</td>
</tr>
<tr>
<td>Solution</td>
<td>Treat wheat seed with Stoller’s Bio-Forge® applied at a rate of 4 oz. per hundredweight.</td>
</tr>
</tbody>
</table>
| Result           | Density of Bio-Forge treated wheat created a pronounced line in the field. Closer inspection showed that the Bio-Forge treated wheat had:  
  - Slightly shorter stalks and more robust grain heads  
  - Higher test weight  
  - Reduced lodging  
  - Increased yields by 12 bu/acre |

**ROI Analysis**

- Yield increase 12 bu/acre  
- Market Price $5.00/bu  
- $60 per acre increase in gross income  
- More than $55 per acre increase profit

**BACKGROUND:** Bio-Forge® is an antioxidant with growth-enhancing co-factors for all crops. Bio-Forge makes crops and plants stronger and better able to live through a number of stressful conditions.

StollerUSA is dedicated to helping producers enhance yields by maximizing genetic expression. The result is in enhanced marketable yield; improved return-on-investments; resistance to insects, nematodes and disease. Stoller products are proven to ensure optimum plant growth by maintaining appropriate hormone balance resulting in healthier, more productive crops that are better able to withstand stress and achieve their full genetic potential.

In agribusiness for more than 40 years, StollerUSA markets a full line of products to help farmers increase crop yield and quality.
Video Clips

To access the grower testimonial videos or clips from other Stoller news events:

1. Go to the file folder titled: StollerUSA Video Clips.
2. Open the folder of your choice: Farmer Testimonial or News and Technical.
3. Then, if you are working on a Mac Computer, open the folder titled: Mac Users. If you’re on a PC, open the folder titled PC Users.
4. The Farmer Testimonial video files are listed alphabetically by crop. Each file name indicates the grower name and location that is discussed in the video.

News & Technical Videos
Farmer Testimonial Videos

Soybeans-Kip-Cullers-MO-MidSeason
Soybeans-Kip-Cullers-MO-SeasonInReview
Corn-Alfalfa-Soybeans-Jim-Hilton-ME
Corn-Henry-Dare-IL

Corn-Jeff-Sommers-WI
Corn-Jim-Jensen-NE
Corn-Joel-Armstead-KY
Corn-Ken-Miller-NC

Corn-Mike-Jorgensen-NE
Corn-Rick-Hurley-IA
Corn-Rob-Weber-IL
Corn-Security-Seed-KY

Corn-Steve-Albracht-TX
Corn-Watson-Farms-IL
Corn-Soybeans-Dan-Denman-OH
Corn-Soybeans-Ed-Shoup-OH

Corn-Soybeans-Jim-Rodman-OH
Corn-Soybeans-Steve-Wiser-PA
Cotton-Steve-Albracht-TX
Seed-Treatment-Ken-Miller-NC

Continued on next page ...
Farmer Testimonial Videos

... continued

Soybeans-Joel-Armstead-KY
Soybeans-Jim-Jensen-NE
Soybeans-Mike-Jorgensen-NE
Soybeans-Rob-Weber-IL
Soybeans-Security-Seed-KY
Soybeans-Watson-Farms-IL
Wheat-Donny-Carpenter-TX
Wheat-Ken-Miller-NC
Audio Clips

To access the grower testimonial audio clips:

1. Go to the file folder titled: StollerUSA Audio Clips.
2. Open the folder to find the MP3 files listed alphabetically by crop. Each file name indicates the grower name and location that is discussed in the audio.

Continued on next page ...
Grower Testimonial Audio Clips

... continued

Corn-Soybeans-Ed-Shoup-OH
Corn-Soybeans-Steve-Wiser-PA
Onions-Scott-Adams-NM
Potatoes-Jeff-Sommers-WI

Wheat-Donny-Carpenter-TX
Wheat-Ken-Miller-NC
Soybeans-Jim-Jensen-NE
Corn-Jim-Jensen-NE

Soybeans-Mike-Jorgensen-NE
Corn-Mike-Jorgensen-NE