

Ag Concepts® Circular



Success Stories: AgZyme®

We hear many stories from our dealers and growers about the success Ag Concepts® products have in the field. We enjoy hearing about the positive effects of our products on the different crops in locations all over the country and would like to share them with you. This story comes from a grower out of North Dakota named Larry.

Larry R. lives 10 miles south of Fargo ND. Last spring he planted this field with **AgZyme®** in furrow on half the field. Just after planting, the area got two and a half weeks of "duck hunting weather" – it was very cold and wet causing poor emergence in several areas of his field. The untreated corn had areas of 30-70% emergence. He was amazed that the **AgZyme®** gave nearly 95% emergence in the distressed areas with noticeable better stand and crop health -- his **AgZyme®** treated crop was six inches taller by mid-June. Unlike the untreated side, he did not have to worry about trying to replant in the distressed areas treated with **AgZyme®**. At harvest the difference was right to the line. With **AgZyme®** the leaves were a nice tan color, intact, and healthy. Without **AgZyme®** the leaves were dark brown, tattered, and shredded from a 36 hour 50 mph wind. The health and stand gave him a 25 bushel per acre increase! Larry thinks this was some of the best "crop insurance" he has ever bought! He is glad he tried Ag Concepts products and will continue to use them.

To learn more about **AgZyme®** visit our website at www.agconcepts.com or call Ag Concepts® corporate office at (208) 388-1131.



AgZyme® treated corn seen on the left. Notice the treated corn is taller, has an improved root structure and mass, and the stalk was much thicker.



AgZyme® treated corn in the background with nearly 100 % emergence. Untreated corn in the foreground suffered yield loss due to lack of emergence.



Split Field. AgZyme® treated corn in the background was more resistant to poor spring conditions, while the untreated corn was stunted and lacked emergence.

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Ag Concepts® Testing: Nitrate Leaching



*“We make a living by
what we get, we make a
life by what we give..”*

-Winston Churchill

Buffalo Chicken Dip

Ingredients

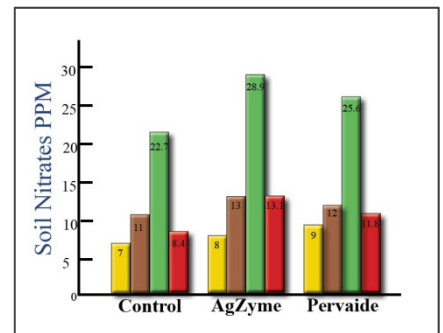
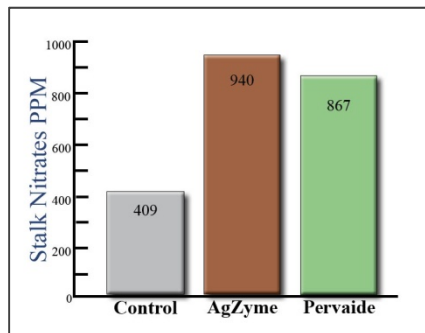
1 Rotisserie Chicken
½ pound cream cheese
2 ounces blue cheese
1 bottle Franks Wing Sauce

Directions

Separate meat from rotisserie chicken.
Mix meat and other ingredients together
in a mixer. Warm in oven at 300°F for 10
minutes. Serve with corn chips. YUM!

Ag Concepts® has been testing our products for efficacy and consistency since we began manufacturing and marketing them. Each year Ag Concepts® contracts several tests with multiple testing facilities. One five year study launched in 2003 at Arise Research, headed by Dr Roy Stephen, was designed to measure the effect of **AgZyme®** on nitrate leaching. During the first year it was found that **AgZyme®** not only reduced nitrate leaching into the ground water but also had positive effects on water use efficiency. Throughout the following years of study Dr. Stephen incorporated a practice that measured the well water use. At the conclusion of the study it was observed that **AgZyme®** reduced nitrate leaching on average by 42.5%, and increased water use efficiency an average of 26.6%. A two-year study testing the efficacy of **Pervaide®** and **Super Hume** on nitrate leaching and water use efficiency followed. This study established that **Pervaide®** alone on average decreased nitrate leaching by 39.9% and increased water use efficiency on average by 28.3%. A combination of **Pervaide®** and **Super Hume** decreased nitrate leaching on average by 46.9% and increased water use efficiency on average by 24.8%. In 2010 Arise Research and Discovery of Martinsville, Illinois began a new phase of study into the efficacy of Ag Concepts products on nitrate leaching and fertilizer efficiency. Arise Research use of EPA drafted and approved Lysimeter Wells (hydraulically isolated test plots) gives them the unique ability to gather and test water more efficiently. Each plot's growth area is bordered by bay walls descending 42 inches into the soil. A four inch wide tile structure, located at the center of the plot below the growing area, drains into a collection and sampling well situated at the bottom of the test plot. Water and other residual chemicals that are applied to the crop eventually drain to the well. After inspecting the past study results the next step was to not only look into the reduction of nitrate leaching and the availability of usable nitrates to the crop but to also investigate the plants absorption of nitrates for utilization. Not only is the reduction of nitrate leaching important for crop management, but reduced leaching leads to more effective utilization of applied nitrogen. This study required three different test plots of corn, a control plot, a plot treated with **AgZyme®**, and a plot treated with **Pervaide®**. In order to collect and compile the data, pre-harvest soil samples were gathered from each field at four designated times. At the end of the growing season, stalk samples were also collected to measure the nitrates taken up by the corn during the growing season. According to Dr. Roy Stephen, "Being the first year of this study much discovery has been made with the use of **AgZyme®** and **Pervaide®** as compounds, when used properly, are yield enhancing, plant health enhancing and environmentally friendly." During this first year of the study **AgZyme®** reduced nitrate leaching by an average of 28.8% and increased stalk nitrates by 129.8%. **Pervaide®** decreased nitrate leaching by an average of 23% and increased stalk nitrates by 111.9%. Both **AgZyme®** and **Pervaide®** can be beneficial to decreasing nitrate leaching, increasing water use efficiency, and increase nitrates absorbed into crops for use by the plants. Receiving test results is always an exciting event at Ag Concepts. Not only can we continue to offer you widely tested products but also provides us with information to better assist you with your needs.

Knowledge is power...if placed in the right hands.



The following article was written by Associated Press Writer Michael J. Crumb.

Appeals court overturns sugar beet injunction

DES MOINES, Iowa (AP) - Environmental groups failed to show that seed plants for sugar beets genetically modified to withstand the popular weed killer Roundup would cause irreparable harm, a federal appeals court said Friday in overturning an injunction that called for the destruction of the plants.

The 9th U.S. Circuit Court of Appeals in San Francisco said it disagreed with a federal district court decision last fall granting the injunction against the planting of the seed plants, also called stecklings.

"We conclude the district court abused its discretion in granting a preliminary injunction requiring destruction of the steckling plants," the court wrote. "Plaintiffs have not demonstrated that the ... plants present a possibility, much less a likelihood, of genetic contamination or other irreparable harm. The undisputed evidence indicates that the stecklings pose a negligible risk of genetic contamination, as the juvenile plants are biologically incapable of flowering or cross-pollinating before February 28, 2011, when the permits expire."

The decision was the latest in the ongoing dispute over the genetically altered sugar beets, which were developed by Monsanto.

Last summer, a federal judge in California halted the planting of the sugar beets until the U.S. Department of Agriculture completed an environmental impact study on how the beets could affect conventional crops.

A month later the USDA's Animal and Plant Health Inspection Service, issued permits to four companies to plant the stecklings in select areas in Oregon and Arizona. The groups that filed the initial lawsuit challenging the sugar beets filed another suit challenging the permits, and in November a federal district court judge in California granted the temporary injunction.

The federal appeals court stayed the injunction pending appeal until Feb. 28.

The ruling had a widespread impact since nearly all the nation's sugar beets come from the genetically altered seed and produce nearly half the nation's sugar supply. Sugar beets are grown on more than 1 million acres in 10 states with Idaho, Minnesota and North Dakota being the top producers.

Earlier this month, the USDA partially deregulated the genetically modified sugar beets, saying that they could be planted under strict conditions with no risk to the environment. The USDA continues to work on completing an environmental impact statement called for in last summer's decision.

The appeals court said it concluded that the permitting by APHIS was sufficiently limited and the "risk of gene flow ... could be virtually nonexistent."

Paul Atchitoff, an attorney for Earthjustice, which represents the groups that challenged the sugar beets, said he is disappointed with the appeals court's decision but called it a temporary setback.

"The 9th circuit seemed to be saying the point at which the plaintiffs should seek an injunction is when the agency APHIS makes a decision to allow the crop to flower. APHIS has made a decision, so from my understanding the time is ripe now for the plaintiffs to seek an injunction," he said.

Telephone and e-mail messages left Friday night for USDA officials and Monsanto were not immediately returned.

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Question of the Quarter

Question: I would like to make AgZyme a part of my program, but I am not sure how to apply it. Any suggestions?

Answer: This is one of the most common questions we get out in the field on a yearly basis. We hear it from orchards, dry-land wheat growers, corn growers, sugar beet growers, bean growers; you name the crop and region, we have heard that question. The best answer to that question is another question, "What are your growing practices?" When we began the formulation of **AgZyme**[®], we wanted a consistent product, a quality product, a product that the growers could trust, and one that was easy to use with most all agricultural practices. We also took extra care to produce **AgZyme**[®] in a way that would allow it to be compatible with most other liquid applications practiced in the field. For this reason, we can confidently say that **AgZyme**[®] will fit into most existing programs. The key for **AgZyme**[®] application is getting it in the soil close to planting time. Here are some common, and some not so common, application options.

- Applied through irrigation
- Banding
- Broadcast on the field and then incorporated
- Applied through drip lines
- Broadcast on field before rain
- Seed treated
- Impregnated on dry fertilizers
- Broadcast on the field and then watered in
- In starter furrow

There is no shortage of ways to apply **AgZyme**[®]. Some applications will work better for certain programs than others, but we strive to save growers money by not adding additional application costs if at all possible. It is recommended that you talk with your local dealer to determine the best application for your program, but don't let application concerns get in the way of letting **AgZyme**[®] be a part of your program.

Ag Concepts[®] has well over one hundred years of combined experience and education in agronomy among their sales and management team. This is your opportunity to take advantage of this expertise. If there is an agronomy question you would like to have answered please send it to treyreid@agconcepts.com or call (208) 388-1131 to submit your question. Questions submitted will be responded to and newsletters will feature one or more of the most common and interesting questions.

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The Bio-*Logical* Alternative®

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Get to Know the Ag Concepts® Team!

We would like to take this opportunity to share a little bit about a member of the Ag Concepts® team. This edition we are featuring Lonnie Saltz who works in Outside Sales and Sales Support for Ag Concepts® Corp.



Lonnie is currently in his 11th year with Ag Concepts®. Lonnie started as a Sales Rep contacting fertilizer dealers to introduce our line of products so they could be integrated with fertilizer recommendations to help growers achieve a higher level of productivity. When Lonnie reflected over his

time with Ag Concepts® he said his favorite things would have to be that, "I enjoy working with Distributors, helping them develop their businesses to become as financially successful as they want to be. I like being involved in a business that has unlimited potential for success." Lonnie also says he enjoys, "Being able to work with a growing company and a company that maintains integrity in how they do business."

Lonnie has always resided in Nebraska. He spent 12 years in the panhandle with the rest of the time residing in Southwest Nebraska. Lonnie joined the Ag Concepts® team as a 19 year fertilizer business veteran with a Bachelor of Science Degree in Agronomy from the University of Nebraska-Lincoln. Lonnie has been married to his wife, Ruth, for 33 years and his son, Joshua, resides in Omaha, Nebraska where he is employed by the Union Pacific Railroad. When Lonnie is not out sharing Ag Concepts® products you can find him enjoying the outdoors either hunting, fishing, or golfing. In his spare time beyond that Lonnie is remodeling and updating his residential rentals.

Lonnie's knowledge and passion "to help growers achieve a higher level of productivity" have made him an asset as a member of the Ag Concepts® team and we look forward to his continued dedication through the years!