

One Acre al a Time

One Family Operation's Major Game-Changer

Look What's Growing in the Golden State

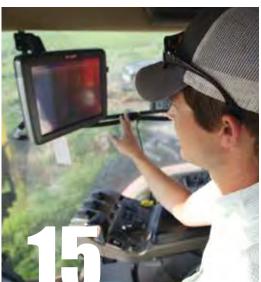
the Farm Flee

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The New Agleader.com: Information the Way You Want It



The precision farming industry shows no signs of slowing down. In fact, the introduction of new technologies and innovations seem to happen on almost a daily basis. But even the best technologies can fail in the marketplace if people don't know about them, how to use them and understand how they benefit from them. Communication is critical in our industry. That's why we think you'll appreciate the launch of the new AgLeader.com website. Over the past year, we've researched how visitors use the Ag Leader website. What parts of it they visit most often. Where they spend the most time. Even how they access it. We used that information to redesign the site to give visitors a better experience. A few insights:

Dealers. Our dealers are a very important part of our business. In fact, access to a knowledgeable dealer is one of the most important factors in the buying process. We've made it very easy to find local dealers from any page of the website.

Products vs. Solutions. We've found that people approach precision farming from two different directions. They either want to learn about a specific product or they want to understand broader solutions. We've set up our site so visitors can do either. Click on "products" and you can dive right into specific information on different Ag Leader products. Click on "solutions" and learn how you can improve your planting, application, water management or other areas of your operation.

Support. Our support page is easier to access and can give you quick access to product manuals, software downloads, training opportunities and even our Knowledgebase. Hours, phone numbers and email addresses are all available right there.

Blog. Our blog, Precision Point, is a pipeline of quick, easy ways you can improve your use of Ag Leader technologies. Recent articles talk about how you can simplify crop insurance reporting, move guidance lines from one display to another and prepare your yield monitor for harvest. Best of all, we developed the site using technology that gives you the best experience whether you're accessing the site from your desktop computer, your tablet or your smartphone. The site automatically determines what kind of device you are using and adjusts the screen accordingly.

Take a look. If you have thoughts or suggestions on how we can make the site even better, there's even an easy way to contact us from any page of the site. We're always happy to hear from you.

Best regards,

Al Myers

EVERAGES OF CONTROLS OF CONTR



Wenzel uses planting maps to keep track of the growing process.

eth Wenzel's allegiance runs deep to the Ag Leader[®] product line. On his Northwestern Illinois farm, Wenzel hosts three Ag Leader[®] Integra displays, three ParaDymes[®], SeedCommand[™] and DirectCommand[™] systems, along with SMS[™] Advanced and SMS[™] Mobile to complete his collection.

Wenzel leverages the fleet of Ag Leader products to maximize his profits and ease his workload throughout the seasons.

"In the spring, we use the Ag Leader Integra display/ ParaDyme setup to control our planter and RTK automated steering," Wenzel said. "On our planters, we are using seed tube monitoring, hydraulic drive control and electric row clutches. Also in the spring, we use the Ag Leader Integra display/ ParaDyme for RTK automated steering and product control for NH₃ applications." as-applied data from local ag service providers for all nutrient, herbicide, pesticide and fungicide applications."



Checking early crop development.

Wenzel adds, "Once summer begins, we use all of our planting maps with data collected from the display in SMS Advanced to help keep track of our crops' growing progress. We also collect all

But, it doesn't end there. Wenzel also uses his lineup during fall harvest and over the winter months.

"In the fall, we use our displays for yield monitoring and also

fall NH₃ applications," Wenzel said. "Having access to seed variety information in the Ag Leader Integra display while harvesting has been a great feature. Additionally for fall tillage, we use Ag Leader products for automated steering."

During the winter, Wenzel utilizes SMS Advanced to analyze yield results to try to learn and understand what seed varieties worked best in his operation. Plus, Wenzel will analyze yield checks for various nutrient and fungicide applications in SMS Advanced.

"Next winter, we plan to create variable rate seeding prescriptions and variable rate NH₃ prescriptions within SMS to help maximize our yields and save on input costs," he said. "Late winter and early spring, we have just started to use our



Wenzel records notes and collects data right from the cab of his tractor.

Ag Leader Integra display and ParaDyme to map RTK boundaries of our fields – both outside and waterway."

Wenzel said he is a loyal user of SMS Software.

"It is awesome that SMS Software will work with most all forms of spatial data," he added. "It doesn't matter what controller or data logger our ag service providers are using – SMS Software will read it all."

Wenzel said his dedication to Ag Leader comes from an industryleading support team.

"My favorite thing about Ag Leader as a company would be the accessibility of support," Wenzel said. "If I need an answer right away, the phone support is topnotch. If I get in late from the field and have a simple question to ask, I will often send an email to support, then early the next day I will generally get either an email response or a phone call with answers to my questions."

Wenzel concludes that farmers are faced with adversity such as unpredictable weather, tightening government regulations and fluctuating grain prices; however, he can curb some of those risks by using the Ag Leader complete package of precision agriculture products.

"As input costs continue to rise and market volatility increases, it will become more challenging to be profitable as a grain farmer," he concluded. "Using Ag Leader hardware and software helps give our operation a competitive advantage."

Wenzel preps his equipment for nutrient and fungicide applications.

CUSTOMER SERVICE AT ITS BEST

Customer service has always been at the cornerstone of what makes Ag Leader stand out from other precision equipment manufacturers.

Technical Support

When you call Ag Leader, you speak with a precision ag expert located in Ames, Iowa, and in the same building where your Ag Leader equipment is designed, manufactured and shipped. Our experts are trained to answer your questions right from the field so you can keep operating without interruptions. And there is no expiration. Take advantage of our helpful support for the lifetime of your product.

Hardware Support

Phone number: 515-232-5363 Email: support@agleader.com

Software Support

Support Phone Number: 515-232-5363 Support Email: SMSsupport@agleader.com

Dealer Support

Your Ag Leader dealer is your local resource for all things precision. Need to get in contact with a dealer in your area? Visit www.agleader.com/dealers.

Training and Resources

From online webinars and tutorials to local dealerhosted trainings around the world, Ag Leader offers training and resources to help you make the most of your technology. Visit www.agleader.com/support/training for more information.



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UPPER FARM

Farm managers at Hertz Farm Management lean on data to make decisions



t was 1937 when Carl Hertz started the first formal professional farm management office in Iowa and 1946 when he went into business for himself. Today, what was once a one-man shop now features a staff of more than 100 professionals, including 40 farm managers operating out of 16 Midwest offices who oversee approximately 2,300 farms and 550,000 acres of farmland across the heartland – from central Indiana to eastern Colorado.

Hertz Farm Management (HFM), headquartered in Nevada, Iowa, helps landowners meet personal goals and investment objectives for their farms. HFM cash rents around 40 percent of its farmland and is involved in production for the other 60 percent.

Accredited Farm Managers (AFMs) from HFM supervise all the fine details related to the farming operation, including leasing the land, planning the crop rotation, purchasing supplies and inputs, marketing crops and livestock, as well as supervising land improvements and building repairs. As any grower knows, doing this for only one farm requires accurate, up-to-date records and a regular influx of field data (soil testing, yield data, etc.). But doing it for 2,300 farms? That takes lots and lots of data.

"The more information, the better," said Hertz Farm Management President Loyd Brown, who has been with the firm since 1969. "Five, ten years ago we may have offered a per-acre payment to the operator to help offset the cost to add precision equipment. Now, most of our operators have adopted these technologies and an incentive is no longer required," Brown said.

HFM doesn't actually own any of the farming equipment its operators use - including precision farming tools – so they must rely heavily on the operators to provide as much farm data as possible. Included in its lease agreements are requirements that operators provide GPS data when it is available. When HFM is considering who to select as an operator for a farm, those operators with superior precision farming tools have a leg up.

What does that mean today? Some years ago, simply having GPS equipment and data would have put an operator at a decisive advantage. But things have changed across the precision farming landscape. Today, Brown said, the majority of operators are up to speed with precision farming technologies.

"Five, ten years ago we may have offered a per-acre payment to the operator to help offset the cost to add precision equipment," Brown said. "Now, most of our operators have adopted these Even though HFM doesn't own or purchase any farming equipment, Brown said the



When it comes time to buy or sell land, data can be a major deciding factor.

technologies and an incentive is no longer required. The most important part of a precision farming system centers around the operator and his or her understanding of the system. This technology is a very useful tool, but it is still only part of the toolbar." farm managers still keep up-to-date with advances in precision farming technologies so they can provide well-informed advice to operators considering buying new GPS equipment, including automated steering and auto section controls for planting or spraying. Because HFM purchases inputs for its custom, modified crop share and crop share farming operations – including seed, fertilizer and chemicals – having access to advanced field data enables them to make refined purchasing decisions that help bolster profit margins. This data also helps HFM allocate profits accurately for those operations where it splits the crop with the operator. And when it comes time to buy or sell land, data can be a major deciding factor.

"The more accurate information we can provide to a buyer, the more questions it removes," said Lawain Biermann, an HFM farm manager from the Waterloo office. "It's a confirmation that helps them set expectations for a farm. In most cases, a motivated buyer is a buyer who doesn't have any questions left in his mind."

As any grower knows, doing this for only one farm requires accurate, up-to-date records and a regular influx of field data (soil testing, yield data, etc.). But doing it for 2,300 farms? That takes lots and lots of data. "The more information, the better," Brown said.

GROWING IN THE GOLDEN STATE

Surfers ride gnarly waves along the shores of warm, sandy beaches. Where incessant paparazzi play hide and seek with insensitive stars. Where the Gold Rush once lured treasure-seekers and the Golden Gate Bridge still stands tall today.

But go beyond all the glitz and glamor, past the hills of Hollywood, and into the forgotten fields and hidden valleys, and you discover that California is a major agricultural state.

According to the California Department of Agriculture, the state produces half of the nation's fruits, nuts and vegetables. In addition, many California fields are teeming with a variety of crops such as grass and alfalfa, which help to supply feed for the numerous dairy operations.

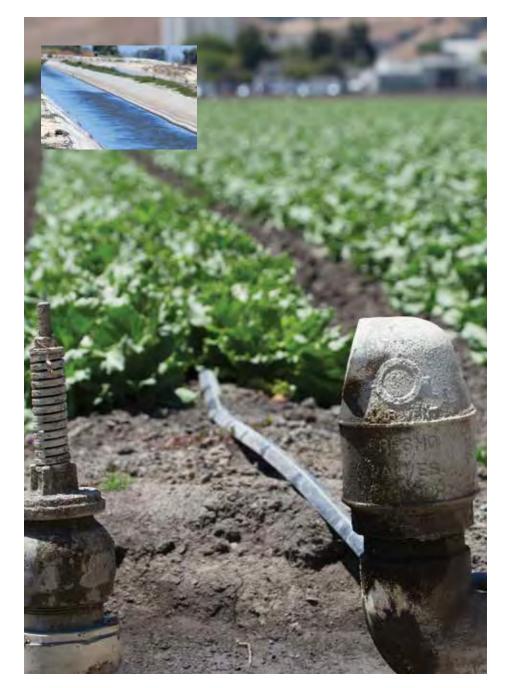
"One of the biggest misconceptions about California is that we're only beaches and vineyards," said Nate Ray, a California farm manager and an Ag Leader[®] customer. "In some parts of the state, we're growing crops that would be found in the Midwest."

Agriculture in California relies heavily on irrigation water from both surface and well water sources.

"For this reason, California is the perfect environment for precision agriculture to thrive," said Kerri Birdwell, Ag Leader's California Territory Manager. "Precision agriculture is most frequently used and relied upon as a guidance tool for precision row spacing and installation of sub-surface drip irrigation systems."

With three growing seasons, California is always engulfed by the hustle and bustle of working the ground, planting and harvesting year-round.

"This leaves virtually no time for mistakes," Birdwell said. "Precision guidance is relied upon to get in and out of the fields as quickly as possible. Growers know time is money and the less time spent in the field, the more money there is to be made."





While weather conditions are, for the most part, more favorable on the west coast, the diving slopes and harsh inclines of the valleys introduce challenges not often found amidst the rolling hills of the Midwest. Getting water to most of the fields requires carefully engineered irrigation systems. Extensive networks of irrigation piping flow throughout the Central Valley and Salinas Valley. They are so populous that growers rely heavily on guidance and steering products with sub-inch accuracy, like ParaDyme[®], to avoid damaging the valuable watering systems.









The Salinas Valley is full of activity in the fields. Shown above, a crew is busy picking, cleaning and wrapping lettuce heads. Uniquely, lettuce has a 30- to 60-day growing length and is planted every 30 days in the Salinas Valley.



Ag Leader's ParaDyme[®], automated steering system, is heavily used in specialty crop production in California due to its accuracy at low speeds.



Jason Thompson of Pacific Ag Rentals specializes in precision farming technology in the Salinas Valley. His knowledge and expertise of Ag Leader GPS and steering systems has contributed to the widespread adoption.

A grower in the Central Valley uses Ag Leader's GPS 1500 and DirectCommand[™] System to apply liquid fertilizer to a field of melons.



FACTS ABOUT CALIFORNIA AGRICULTURE

Number of Farms: **81,700** Average Farm Size: **311 acres** Total Farmland: **25.3 million acres** More than **400 crops grown**

Top 10 California commodities include milk and cream, all grapes, almonds, nursery products, cattle and calves, lettuce, pistachios, walnuts, flowers and foliage.

California agriculture generates about **\$37.5 billion a year** making California the nation's top agricultural state.

*according to United States Department of Agriculture Economic Research Service (2012)



Central Valley farm manager, Nate Ray, understands the importance of using Ag Leader products in the operation. DirectCommand[™], guidance and steering products, along with population monitoring help his operation run more efficiently and effectively.

Ag Leader dealers are committed to providing customers with the highest level of product knowledge and customer support no matter where they're located. Ag Leader dealer, Kris Goodman of Precision Ag Solutions, and Ray discuss the Ag Leader product lineup while on the farm in the Central Valley.

A MAJOR GANE-CHANGER

Ag Leader[®] Integra display makes a big difference to a family operation "My dad told me that whatever it costs, it's worth it. It just confirmed that we made the right decision to invest in the Ag Leader[®] Integra display," Chad said.

hen Mike Swindoll told his son, Chad, they should purchase yet another Ag Leader[®] Integra display next year for the family's farming operation in the heart of the Mississippi Delta region, Chad knew his dad was hooked.

"My dad told me that whatever it costs, it's worth it," Chad said. "It just confirmed that we made the right decision to invest in the Ag Leader Integra display." Chad, 24, and Mike, 56, farm nearly 2,000 acres of corn, soybeans and wheat on their Tutwiler, Mississippi, operation. Aside from one part-time employee, the father and son duo handle the day-to-day operations, including key decisions. When Chad was in college, however, the bulk of the work fell to Mike, which made for some long days.

Having a Case IH® MX220 helped ease the workload for Mike, especially since the MX220 came equipped with a factory installed automated steering system. The automated steering feature not only relieved Mike of some of the physical exhaustion that comes from operating farm machinery, it introduced Mike to the wide-ranging possibilities of precision agriculture.

After college, Chad worked for an agricultural company before returning to the family farm full-time. His off-farm work experience improved his appreciation for precision agriculture as well. Yet, while the factory-installed automated steering feature was nice, it didn't allow Mike and Chad to save and manage critical data.

"While I was working for an agricultural retailer on its precision agriculture team, I got to know the Ag Leader products pretty well," Chad said. "We chose the Ag Leader Integra display because it's the best in the industry for data management. It's great to have a tractor that steers itself, but for us, it's all about the data management."



In fact, they insist their display not only brings integrated guidance to their planter and application operations, it aids in application control, mapping, yield monitoring, real-time data logging and more.

"This year-round precision farming tool works with any farm machinery equipment manufacturer," Mike said. "The beauty of the Ag Leader Integra display is that it makes cutting-edge precision farming easy with the touch screen display and video inputs so farmers can keep an eye on their equipment while it's in operation. With an integrated guidance system, the display reduces input costs and increases yield potential."

The Swindolls invested in their first two Ag Leader Integra displays then later added Advanced Seed Monitoring to the planters, a yield monitor to their combine and an Ag Leader Integra display to their recently purchased Case IH tractor. They also

Mike Swindoll stands in a cornfield with his son, Chad.

added SeedCommand[™] to two corn planters and have DirectCommand[™] application control system.

But for the Swindolls, being able to track farm data is even more important than yield results. In fact, the Swindolls have now added Ag Leader's SMS™ Advanced, simply because they have so much hardware and data to manage.

"We really learned how valuable data was to our operation after having the yield mapping capability," Chad said. "Also, the Advanced Seed Monitoring gives us great information about real-time planter performance. While I can't yet put a number on the difference because it's too soon for us, but I do know it translates into increased yields. The display lets us know when we need to slow down in rough field conditions."

And because theirs is a familyrun operation, Chad said using the display makes farming "We chose the Ag Leader Integra display because it's the best in the industry for data management. It's great to have a tractor that steers itself, but for us, it's all about the data management," Chad said.

easier and more efficient for their small staff.

"We can do more with less labor," he said. "We're not constantly checking the planter or sprayer. The hardware, and the data that comes from it, gives us an extra layer of control. We have virtually eliminated overlap, which translates into more acres covered in a day."

Accuracy is another Ag Leader Integra display feature that makes a difference to the Swindolls.

"Tracking seed and fertilizer costs and usage aids us in record-keeping for crop insurance and puts us that much further ahead in the game," Chad said.

Not surprisingly, the Swindolls' dealer, Delta Precision Systems in Clarksdale, Mississippi, knew that Mike and Chad would be pleased with the display. According to its Precision Agriculture Specialist, Taylor Fleming, the addition of the Ag Leader Integra display has made a world of difference to the family's operation.

"Swindolls have come a long way from the automated steering feature that came with the tractor to all that the Ag Leader Integra display can do for them now," Fleming said.



Chad and Mike Swindoll discuss their Mississippi Delta farming operation.

"They were really looking for ways to track and manage their data and he believes they have found the solution with the display." According to Chad, the Ag Leader Integra display helps them store their guidance lines and easily pull that information back up again. Even for those who don't consider themselves proficient in the use of today's new technology, Chad insists it's simple to use and easily summarized on the display screen.

"I think the best word to describe the Ag Leader Integra display is 'intuitive.' It takes a lot of the stress away," he said. "If someone bought it and only used the basics, it's worth it ... just as much as it is to push it to the limit and use every feature it has. That's what sets it apart."

This year, in particular, the display has proven even more valuable to the Swindolls. With the season's excessive rain, Chad said there have been many times when they can't get into the fields until the evening. With automated steering, it allows them to work in the dark and they no longer use row markers.

"I have no complaints about the Ag Leader Integra display. It never crashes or locks up. It runs on good, stable software," he said. "But for us, it's all about the data we're collecting. Any little edge we can give ourselves, we're going to do it."

ONE ACERE

SMS[™] Advanced Software serves as the cornerstone in this Illinois family's site-specific program

tter



The Hunt Farm crew reviews their collected farm data.



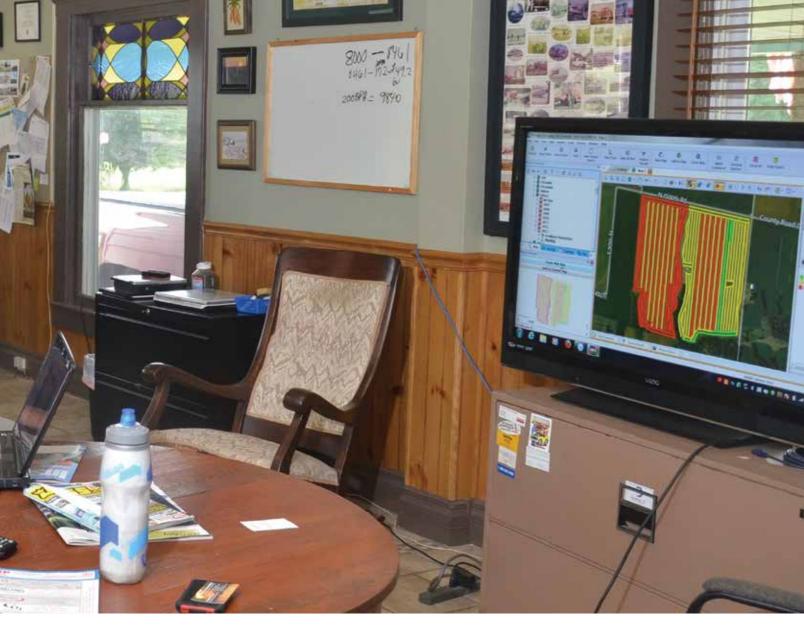
Hunt Farm based in Blandinsville, Illinois.

hether they say it verbally or use it as the motto on their website www.huntfarm.us, the team at Hunt Farm, based in Blandinsville, Illinois, insists they farm "one acre at a time." And that is indeed the case, thanks in part to Ag Leader® SMS™ Advanced software and two Ag Leader Insight™ displays.

Founded in 1940, Hunt Farm, which manages a nearly equal acreage of corn and soybeans, with a little wheat thrown in on lighter soil, is currently into its fifth generation of management. While patriarch Ed Hunt is still involved most days, Ed's sons, Brad and Dave Hunt; grandsons, Jake, Kevin and Colby Hunt; Ed's grandnephew, Monte Mason, and Monte's son, Glade, handle most responsibilities these days.

According to Monte Mason, the family's official goal is to "give detailed attention to every acre and every landowner by using geo-referenced 'site-specific' practices and being good stewards of the resources available to be productive and profitable."

Hunt Farm isn't any newcomer to site-specific technology,



either. Kevin Hunt, part of the fourth generation, recalled the family started with Ag Leader in 1994 when they installed an AL2000 yield monitor on a Gleaner[®] combine. Later, they moved to a PF3000 and ultimately to Ag Leader auto-guidance systems in the combines.

Recently, Hunt Farms ordered a new Lexion[®] combine for this fall that will have an Ag Leader Integra display and SMS[™] Advanced in it as standard equipment.

"That's one of the things we like about the SMS Advanced

system," said Monte, who manages most of the farm's data. "We can import all the essential information, no matter what the source."

These days, however, Mason and his colleagues go far beyond just yield monitoring. In addition to collecting and saving several years worth of yield data, they also use SMS[™] Mobile software to collect their own soil samples and grid map all the fields in 2½-acre grids. That information is then used to generate prescription maps for both fertilizer and lime applications. Since the family also does their own tiling with a Soil-Max[®] Gold Digger[™] drainage tile plow, they also use the maps to lay tile lines.

"We wrote kind of an extensive equation for our dry fertilizer application that uses our soil tests, which are taken every four years, as well as four years worth of yield data to establish the fertility removal rates," Monte explained. "We then use that equation to put back into the soil what we've taken out in an average year."

"Prior to the dry fertilizer, we put on a straight rate of anhydrous ammonia when we make the strips for our strip-till program," said Kevin, noting that the family has used a strip-till program since 1995. "But we'll vary that manually, depending on the area in the field. Then we come back in the late fall or early winter with variable rate dry fertilizer using the Insight and DirectCommand[™] to control the rate."

Once planting time arrives, the family makes another nitrogen application of 28 percent liquid as a carrier for the preemergence corn herbicide. The fourth and final shot of nitrogen comes in the form of a variable rate side-dress application. In "The important thing is we're logging the data on all the fertilizer applications, whether it's a straight rate of anhydrous or a variable rate of dry fertilizer, and putting it on where it will do the most good. Of course, weather still plays the biggest role when it comes to yield," Mason said.

this case, it goes on in the form of NH₃ using a Challenger[®] MT755D tracked tractor and a custom-built three-point mounted, 24-row side-dress bar.

"We have been able to tell from our soil tests that we're maintaining or building the fertility in the soil," Monte continued. "The important thing is we're logging the data on all the fertilizer applications, whether it's a straight rate of anhydrous or a variable rate of dry fertilizer, and putting it on where it will do the most good. Of course, weather still plays the biggest role when it comes to yield."

While they are not yet variablerate seeding any of their crops, the family is still gathering all the information from their Case IH[®] planters and logging that into the SMS[™] Software too, to generate an extensive set of field maps. That includes plant population in each field, along with hybrid or variety.

"We then convert those maps to PDF files and put them in a Dropbox[®] file on the computer," Monte added. "Finally, each family member is assigned a certain number of fields to scout each week."

"Even though we have a plan before we go to the field with the planters, we still want to know what we have planted and where," Monte added. "It just leads to better management."

And managing for productivity and soil stewardship isn't just



important to the Hunt family. It's also important to the numerous landlords they report to. That was part of the reason the family developed the Hunt Farm website a few years ago.

"We have a lot of landlords and family members who follow us on the web and on Twitter[®]," said Colby, pointing out that the farm is spread out over 20 miles. "They like to see what's going on during the different seasons of the year and they appreciate knowing that we have their best interests in mind."

Thanks to Ag Leader's SMS Advanced, they're able to farm one acre at a time, no matter who owns the property.



Hunt Farms understands the Value of Data. Take a look at how they use data to make better decisions:

- Collect soil samples and grid map all fields.
- Generate prescription maps for both fertilizer and lime applications based on samples.
- Log data on fertilizer applications and analyze effectiveness of inputs using soil tests.
- Generate field maps at planting to map population and hybrid locations.
- Crop scout using field maps to determine which hybrids are performing best.
- Map yields at harvest and compare maps year over year to see improvements driven through data management.

THE INNOVATION UPDATE

LATEST:



SMS summer training schedule announced

Precision farming is an investment in the future. It reduces input costs, saves time, improves decision making and increases profitability. Making the right investment takes expertise. The world of precision farming – and its benefits – is changing so quickly growers cannot afford to stop learning.

From online webinars and tutorials to local dealer-hosted trainings offered all around the world, Ag Leader offers training and resources to help growers learn how to profit from precision farming technology. For additional information on trainings available to you, visit agleader.com/support/training.



Educational Solutions offers new curriculum

Since January, the Ag Leader Educational Solutions team has been busy creating new online educational curriculum to provide educators with tools to help better understand and teach precision farming topics to their students. This new curriculum will be launched at this year's Annual Educator's Training to be held August 6-8, 2013, at the Ag Leader Academy in Ames, lowa. Educators wanting to learn more should email education@agleader.com or call 515-232-5363 ext 4428.





Upgrade your Ag Leader® Integra display

This spring Ag Leader released all firmware downloads to the general public and version 4.0 for the Ag Leader[®] Integra and Versa[™] displays. It's recommended that growers stay up-to-date with firmware releases to ensure operations on the latest software improvements are available. Questions? Contact your local Ag Leader dealer or call tech support at 515-232-5363.

Connect with Ag Leader

Social media is a common way people are communicating today. Not only can Ag Leader fans interact with the company on Facebook, Twitter, LinkedIn and YouTube, but also on Ag Leader's blog – Precision Point. These platforms allow Ag Leader to inform and educate, and also have a conversation with those interested in precision farming technology. Connect with us today!

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DirectCommand

DirectCommand[™] gives you better control of your application operations – with variable rate application of up to 8 products – liquid and granular – in a single pass. That means less compaction, less fuel and less time sitting in the cab. And with AutoSwath[™] automatic shutoffs, you eliminate overapplication at point and end rows and along non-crop areas that can cost you in both wasted product and crop performance.





To find your local Ag Leader dealer visit www.agleader.com

