CANADIAN FARMING

FALL 2017

CASE IH AGRICULTURE

New Case IH Data Sharing Agreements PAGE 21

Think Differently About Crop Residue PAGE 25

NEW TRIDENT APPLICATOR

PAGE 4

GOT 42 MINUTES?

The new Case IH Trident™ 5550 liquid/dry combination applicator is the fastest converting combo applicator in the industry. Specifically designed for conversion, it switches from liquid to dry application in only 42* minutes. And that means you can trade in those long hours spent in the shop for productive time in the field. Sounds like a good deal to us. Head to **caseih.com/fast** to learn more.

*Changeover achieved in 42 minutes by three people using recommended tools. Changeover times may vary based on manpower and tools used.

RETHINK PRODUCTIVITY

175 CASE IH AGRICULTURE 1842-2017

ON THE COVER: The new Trident 5550 applicator provides the ability to apply liquid or dry granular products as preplant, in-crop and postharvest applications. Changeovers between liquid and dry can be accomplished in as little as 42 minutes.

CONTENTS

Publisher, Case IH: Sy Stevens
Farm Journal Content Services: Charlene Finck
Canadian Farming Editor: Steve Davidson
Art Director: Lindsey Benne

PRINTED WITH SOY INK

The new digital edition of Canadian Farming is available online at *caseih.com/canadianfarming.*

OUR MISSION: To provide you with information about Case IH equipment, trends in agriculture and producers' experiences to help you successfully manage your farm business.

CANADIAN FARMING is published on behalf of Case IH and Case IH dealers by Farm Journal Media. Printed in the U.S.A.

Volume 44, Number 2, 2017.

CANADIAN FARMING is sent free of charge to qualified producers courtesy of Case IH dealers. Address changes should be sent to CANADIAN FARMING Circulation, CNH Industrial America LLC, 700 State St., Racine, WI 53404. Please include the address label from this magazine along with your new address.

Mechanization to Interconnection

This has been a special year for Case IH as we have celebrated the milestone of 175 years of innovative farming technology.

Jerome I. Case founded the Racine Threshing Machine Works, in Racine, Wisconsin, in 1842. Five years later, Cyrus McCormick formed the McCormick Harvesting Machine Company in Chicago. These two companies evolved into J.I. Case and International Harvester.

Today, the heritage of these great companies lives on in the Case IH brand. And, the legacy of innovation has never been stronger.

A milestone like this is a time to look back at an amazing history of innovation that has progressed from horses and steam to highly efficient diesel power and the cusp of autonomous operation.

Going forward, the "mechanization" of agriculture that Jerome I. Case and Cyrus McCormick initiated is evolving into the "interconnection" of agriculture as equipment interacts to monitor, manage and control all aspects of the crop production cycle.

At Case IH, we Rethink Productivity. Our drivers, including Agronomic Design and the Customer-Driven Product Development process, provide the basis to continually bring forth innovative products and services. It's about High-Efficiency Farming, and always helping you be a more productive lower-cost producer.

Jim Walker

Jim Walker
Vice President, Case IH North America

Trident 5550 Applicator

New Case IH applicator delivers liquid or dry products for three seasons of use

A new applicator from Case IH offers flexibility to producers wanting more control over their crop protection and nutrient management options.

The Trident 5550 liquid/dry combination applicator is engineered from the ground up to be quickly switched between liquid and dry products. Based on a row-crop chassis with a load-compensating air suspension, this new high-clearance applicator can carry a 1,400-gallon liquid tank (plus a 200-gallon built-in rinse tank) or a 330-cubic-foot dry spinner box with up to four product compartments.

"Getting the right nutrients to the crop at the right time, along with effective weed and pest control, are key components of maximizing yields," says Mark Burns, Case IH application equipment marketing manager. "This new Trident 5550 applicator provides the ability to apply liquid or dry granular products as preplant, in-crop and postharvest applications."

The Trident's hood and cab are instantly recognizable. The 8.7-liter engine and Surveyor cab are the same as the Case IH Magnum tractors. These components sit on an exclusive new high-clearance chassis.

Industry-leading technology

As a sprayer, the Trident 5550 Liquid System includes the full range of Case IH industry-leading application technology. Boom width choices include 60/90, 60/100 or 60/90/120 feet with available AutoBoom automatic boom height control. Three product plumbing choices present a wide range of product flow options.

The Trident 5550 applicator can be equipped with the AIM Command FLEX advanced spray system. Its proven pulse width modulation spray technology provides constant application rate and pressure and the ability to manage droplet size for drift control.

"All the application technology offered on the Patriot sprayers is available on the Trident 5550 applicator," Burns says. This includes your choice of managing AIM Command FLEX through the AFS Pro 700 or Case IH Viper 4+ displays.

Dry spinner box

Case IH has partnered with Highway Equipment Company to develop the New Leader® NL4500T G4 Edge dry spinner box.

On the Trident 5550, the dry spinner box uses New Leader's G4 variable-rate broadcasting technology and can deliver an accurate broadcast of granular fertilizers up to 120 feet at speeds up to 25 mph.

The 330-cubic-foot box is available with a choice of up to four

Case IH Application Equipment

Patriot Series Sprayers

In-row high-clearance applicators for crop protectants and low- to medium-rate liquid fertilizer applications.

Trident 5550 Applicator

Purpose-built high-clearance applicators with the ability to switch between dry and liquid application systems.

Titan Series Floaters

High-capacity, high-volume applicators, including pneumatic dry product delivery, for preplant or postharvest applications.

Nutri-Placer Applicators

Pull-type fertilizer applicators for preplant and sidedress applications of liquid and anhydrous ammonia products.

product bins. With the four-bin application MultiBin option, Burns says the two larger bins could carry high-volume fertilizers such as potash and nitrogen, and the two smaller bins could provide micronutrients. The delivery rates for all four products can be managed simultaneously by prescription.

The Trident 5550 was developed specifically to interchange between liquid and dry applications. Changeover between the liquid and dry applicators can be accomplished in as little as 42 minutes with three people and the recommended tools. An optional Case IH Aerial Lift Device aids the process.

"Because the new chassis on the Trident 5550 can carry liquid or dry application systems, it requires a suspension package capable of carrying high-capacity loads and applying these loads over a wide range of speeds," Burns says. "Its new load-compensation suspension meets the challenge."

The system features a pneumatic cylinder at each suspension joint to help maintain ride quality and load leveling. An engine-powered air compressor supplies the air to each cylinder, which automatically adjusts according to operating mode and load weight.

Axle spacing can be quickly adjusted from the cab by a few taps on the A-post or rate-controller displays. The axles can move in ½-inch increments from 120 to 160 inches. Front and rear axle spacings can be set independently. For example, in 30-inch rows you can set the front axle at 120 inches and the rear axle at 150 inches to reduce compaction.

Available factory-installed dual wheels provide another option for reducing compaction. Individual wheel traction control helps maintain performance in challenging field conditions.

"This new applicator gives producers the ability to apply liquid and dry products throughout the entire course of the growing season with one machine," Burns says. "It provides ample capacity, the newest technologies and the ability to accurately apply liquid and dry products. ■

New Maxxum Tractors

Next-generation Maxxum models have a productive new transmission option and distinctive new styling

Maxxum tractor models have new features to make them even more capable of handling a range of agricultural applications.

The next generation of Maxxum tractors have sleek new grill and hood styling to enhance cooling system performance, improved operator convenience features, a new heavy-duty Class 4 front axle and the option of an efficient and easy-to-use ActiveDrive 8 dual-clutch transmission.

The Maxxum tractor line includes five models ranging from 115 to 145 engine hp, delivering 95 to 125 PTO hp. Four models, the Maxxum 115, 125, 135 and 145, are powered by 4.5-liter four-cylinder engines, and the Maxxum 150 has a 6.7-liter six-cylinder engine. The engines are turbo-charged, after-cooled and Tier 4 B/Final compliant using the Efficient Power SCR-only system. Automatic power boost provides additional power for PTO, mobile hydraulic and transport applications to maintain productivity during demanding conditions.

At this horsepower range, with base operating weights from 11,300 pounds to 12,800 pounds depending on the model, Maxxum tractors are well-suited for a variety of applications. These includes hay operations, loader work and general utility as well as tillage, planting and seeding.

"We probably see Maxxum tractors being used in the widest range of applications of the entire Case IH tractor line," says Cole Carling, marketing manager for Case IH Maxxum, Puma and Optum tractors. "There's a lot of versatility here."

The new ActiveDrive 8 dual-clutch transmission is available for Maxxum models 115, 125, 135 and 145. It joins the standard ActiveDrive 4 semi-powershift transmission and the CVXDrive continuously variable transmission.

The ActiveDrive 8 transmission provides 24 unique gear ratios among three electronically shifted ranges. Each range has eight powershift gears. The middle range, with speeds from 2.5 mph to 10.7 mph (3.9 to 17.3 kph), covers many field operations and lets you powershift between these eight speeds under full load and torque.

The ActiveDrive 8 transmission includes a power shuttle and smart range shifts. With smart range shifts, the transmission selects the right gear, not just the next gear, when the operator demands more or less groundspeed. This also allows for fewer shifts between working speeds and transport speeds.

"Three transmission choices allow you to better match the tractor to your needs," Carling says. "The ActiveDrive 4 semi-powershift transmission is a solid choice for all-purpose utility work. The ActiveDrive 8 transmission, with its power shuttle and automatic shifts within ranges, is excellent for loader work and field operations. The CVXDrive transmission is the option for producers

Maxxum 145

Maxxum Tractor Models

Model	Peak Engine hp*	Rated PTO hp	Engine
Maxxum 115	145	95	4 cylinder 4.5 liter
Maxxum 125	155	105	4 cylinder 4.5 liter
Maxxum 135	169	110	4 cylinder 4.5 liter
Maxxum 145	175	120	4 cylinder 4.5 liter
Maxxum 150	175	125	6 cylinder 6.7 liter

*Maximum boosted engine horsepower

looking for simple, smooth, one-lever control."

Depending on the transmission, Maxxum tractors are capable of transport speeds of up to 32 mph (50 kph). The new Adaptive Steering Control option provides improved steering response. Available factory-installed dual rear wheels deliver more traction and flotation.

A value tractor … and a premium tractor

"We talk with producers who want a basic tractor without a lot of options, and we also hear from producers who want a mid-range tractor that shares many of the premium features of their Magnum and Steiger tractors," Carling says.

"Maxxum tractors can serve both their needs with a very capable and productive tractor," he adds.

Producers looking for a workhorse tractor have the option of the Maxxum ActiveDrive 4, featuring a 16x16 semi-powershift transmission with four powershift gears per range, two-wheel drive or MFD and mechanically controlled hydraulics.

Alternately, producers can opt for the Maxxum ActiveDrive 8 and CVXDrive models that include best-in-class seat options, electronic or mechanical hydraulics, and fully integrated autoguidance.

All Maxxum models can be equipped with a suspended cab and a suspended front axle.

Match these next-generation Maxxum tractors to the L705 series loaders.

One key point of difference is the cab layouts. The cab on the ActiveDrive 4 models provides a roomy and comfortable workplace. The cabs on the ActiveDrive 8 and CVXDrive models offer increased operator productivity with the multi-control right-hand armrest that moves with the seat. It also includes the MultiFunction handle, which features one-hand operation of most tractor functions and will easily and efficiently accommodate the optional AFS Pro 700 display and electronic joystick for controlling a loader and other hydraulic functions.

"The ActiveDrive 8 and CVXDrive models deliver the same operating experience as the larger Case IH Puma, Magnum and Steiger models. A lot of producers appreciate that commonality," Carling says. ■

Autoguidance For All

All Maxxum models can be equipped with autoguidance. The Case IH AFS ElectriSteer-assisted steering system is the autoguidance solution for the non-MultiController models. The ElectriSteer system includes a motor drive unit that simply clamps onto the steering wheel and accurately guides the tractor at speeds up to 15 mph.

Pair ElectriSteer with an AFS Pro 300 or AFS Pro 700 display and an AFS AccuStar or AFS 262/372 GPS receiver to access guidance correction sources ranging from basic WAAS to RTK and its sub-inch accuracy. It's an ideal choice for hay and forage operations.

All Maxxum MultiController-model tractors have fully integrated AFS AccuGuide autoguidance capabilities with the addition of the AFS Pro 300 or Pro 700 displays and AFS receiver.

INCREASE PRODUCTIVITY AND EFFICIENCY YEAR-ROUND

Maximize yields and control input costs with Advanced Farming Systems® (AFS) solutions from Case IH. Visit us today to learn more—and take advantage of special offers on select AFS products.

Hurry in—offers end November 6, 2017.

GET A 10% INSTANT REBATE[1]

For every qualifying purchase of select AFS products and systems.

17% OFF AFS PRO 700 DISPLAY[2]

Available when you trade in a Case IH legacy or competitive display.

Complete Assisted Steering Package

Enhance your auto guidance capabilities with the advanced electric steering solution from Case IH. Our complete steering package includes the AFS ElectriSteer™ system, AFS Pro 700 display and AccuStar receiver.

AFS AccuTurn Automated Turning Technology

Take the guesswork out of turning on headlands with the new automated technology from Case IH. AccuTurn provides hands-free, automatic and repeatable turns for increased accuracy and productivity.

ISOBUS Product Control

View and power your fleet's implement functions with the touch of a finger. The ISOBUS Product Control System from Case IH allows you to easily control your implements through an intuitive virtual terminal display.

AFS Pro 700 Display

From planting and spraying to harvesting and tilling, the AFS Pro 700 display is at the heart of the task. Count on a single intuitive interface to connect with all your equipment and monitor your performance, even with mixed fleets.

[1]To qualify for the 10% instant rebate, you must purchase an ISOBUS Product Control System, AccuTurn Passcode or a minimum of one of three Complete Assistance Steering Package Components (AFS ElectriSteer system, AFS Pro 700 display and AccuStar receiver).
[2]Terms and conditions apply. Ask an associate at a participating Case IH dealer for details.

CNH INDUSTRIAL GENUINE PARTS

AFS ADVANCED FARMING SYSTEMS

CASE IH AGRICULTURE

Keeping **Current**

Stay up to date with precision ag technologies

Technology continues to make the job of farming easier and more accurate. In light of how technology constantly evolves with new products and capabilities, it can make sense to include technology updates as part of your overall annual budgeting.

"There's always an opportunity to add new or updated precision farming products," explains Ryan Blasiak, Case IH AFS marketing manager.

For example, adding or updating autoguidance will make every field operation more efficient by minimizing gaps and overlaps. Adding individual row shutoffs to planters will save seed and potentially increase yields by eliminating overplanted areas.

"Autoguidance and row shutoffs are two examples of technology that producers tell us they wouldn't be without, after experiencing them," says Blasiak. "And the compelling part about precision farming technologies is there are always new options for every producer, regardless of whether you're just getting started with these technologies or a long-time, sophisticated user."

Consider these two recently introduced Case IH Advanced Farming Systems products. ■

Prioritizing Tech

The goals of precision farming technology are to gain accurate data, analyze it and turn the information into more efficient field operations. Consider these points for upgrades:

- Yield monitoring. The foundation for all crop management decisions. Make sure your yield monitoring and mapping capabilities are accurate and reliable.
- Autoguidance. Autoguidance is a great boost to field productivity. Consider new signal options and levels of accuracy to best match your cropping systems.
- Section and rate control. Eliminate over- or under-application of seed, chemicals and fertilizer.
- Data transfer. Use AFS Connect to move data wirelessly between your AFS Pro 700 display, your home office and trusted third-party providers.

See your Case IH dealer for details. Learn more at caseih.com/afs.

AFS AccuStar Receiver and ElectriSteer

The new AccuStar receiver brings autoguidance to tractors or combines that lack autoguidance capabilities. It works with the ElectriSteer-assisted steering unit for a low-cost, easy-to-install and transferable autoguidance solution. Simply attach the magnetic mounting plate for the receiver to the tractor or combine cab and attach the ElectriSteer unit to the steering wheel. Working through the AFS Pro 300 or AFS Pro 700 displays, this combination will provide autoguidance at speeds from 1 to 15 mph at accuracy levels from WAAS to RTK. It also provides GPS positioning for yield mapping and third-party displays and applications.

AFS AccuTurn

AFS AccuTurn adds hands-free row-end turning capabilities to Case IH tractors equipped with AFS AccuGuide autoguidance. This feature anticipates the row end and gives you the option to either initiate the turn through the AFS Pro 700 display or let the system perform autonomously after slowing the tractor to the recommended speed. The tractor will make consistent, repeatable turns and line up with the row. Use it for skip-pass or pass-to-pass turns in planting, seeding and tillage operations. AFS AccuTurn is available for Magnum, Maxxum, Optum, Puma and Steiger tractors equipped with AFS AccuGuide, an AFS 262 or 372 receiver, a NAV II or NAV III controller and the AFS Pro 700 display.

Remotely Efficient

A fourth generation of homesteaders embraces new efficiencies

There are only a handful of farms in Canada that lie north of Ken Vreeling's Alberta operation. The area known as Hawk Hills, nearly 400 miles northwest of Edmonton, is remote.

His grandparents immigrated there from Holland in 1949 and began clearing and breaking land in 1952. "There were no roads, no power; they were true homesteaders," he says.

Today, Vreeling is transitioning this land to the fourth generation, as his sons Michael and Ryan begin to take over. Two other sons, Carter and Sean, have off-farm careers.

But beyond dealing with the challenges of distance and long winters, the Vreelings share the same goals as all progressive cash grain producers.

"We're trying to be as efficient as we can with our time, equipment and crops," Vreeling says.

Vreeling and his sons farm about 9,300 acres of wheat and canola, with yellow peas as a recent addition.

"We used to say this is the land of opportunity, and I still believe that," Vreeling says. "It's a challenging area, because we're quite far north, and we have a compressed growing season. But things have gotten a lot better in the last 15 years with new varieties, new technologies and new abilities to seed the crop faster."

In fact, Vreeling has focused on gaining efficiencies in every facet of the operation. Their fields are large, with some 1,000 acres or more, and mostly flat to slightly rolling.

Winters are long, dark and cold, but also provide a distinct timeline. The Vreelings don't do fieldwork ahead of May 1, even if a weather window might open, and they target all fall work to be completed by the end of October.

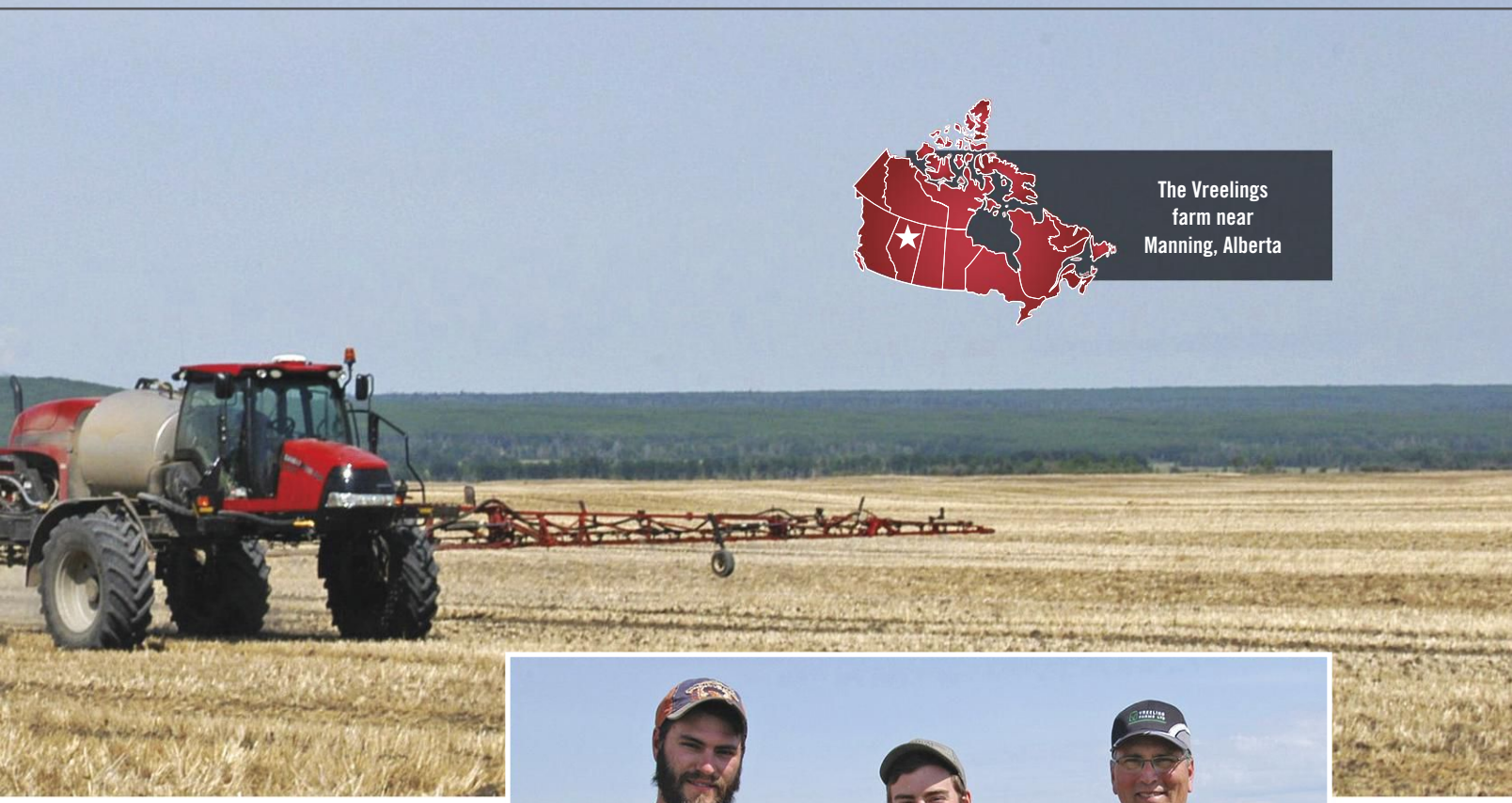
Thanks to big air seeders, Vreeling says they can handle all spring seeding in 10 days using a pair of 66-foot air-seeding rigs pulled by Case IH 485 Steiger Quadtrac tractors.

They plant the seed and apply phosphorus, potash and anhydrous ammonia in one pass. Tillage is minimal. They make one pass with a spike-tooth harrow on canola stubble to smooth the surface and run a heavy harrow over heavy wheat straw as needed.

Because of their area's late spring weather, Vreeling says weed pressures are minimal prior to seeding. They apply a pre-emergence herbicide after seeding and do another weed control pass with the sprayer midseason. Fungus pressure might require another spray application.

These multiple applications, including a late-season desiccant application to aid harvest, keeps their Case IH Patriot 3340 sprayer busy covering more than 40,000 acres each year. The sprayer includes the AIM Command PRO system that provides single-nozzle control for overlap and turn compensation in addition to AIM Command's drift management control. "I like these features," Vreeeling says. "It's a nice sprayer."

At harvest, the Vreelings run three Case IH 8240 Axial-Flow combines. Thanks to the desiccant, they direct-cut all their crops, saving



The Vreelings farm near Manning, Alberta

› Michael, Ryan and Ken Vreeling are applying the latest technologies on one of Canada's northernmost farms.

the time and expense of windrowing. Vreeling says they harvest at a slight angle to the row, which provides for smoother feeding of heavy crops.

Vreeling says the improvements in the residue management capabilities of their Axial-Flow combines translate directly into more efficient seeding and more uniform emergence.

"The 40-blade Magna Cut choppers on the combines don't require a lot of horsepower, and they deliver a good spread pattern. That really helps us in the spring," Vreeling says.

Vreeling, who has made yield maps for years using the Case IH AFS yield monitors, says the data is increasingly valuable as they move toward more prescription-based seed and nutrient management. The maps have also helped identify compaction and drainage issues.

Vreeling has increasingly focused on plant health and soil health. "We do a lot of soil testing," he says. Some fields have areas of peat or muskeg, which don't require anhydrous ammonia. For that reason the Vreelings began developing variable-rate prescriptions for the ammonia and have expanded into variable-rate control for the other nutrients as well as the seeding rate. They also pay attention to the placement of nutrients, placing some directly with the seed and the rest to each side of the seed rows.

"We look at what nutrients the crop has removed from the ground in order to build them back up," Vreeling says. "Because we own most of our ground, we see nutrient management as a long-term game. We're going to be farming this ground for another generation, maybe more. We're taking a long-term view."

The Vreelings' main yard is the site of a former fertilizer dealer, which Vreeling operated through 2008. Although he is no longer a

Ken Vreeling holds a wheat seedling. With careful attention to fertility and variety selection, wheat yields can average 70 bushels per acre in the 100-day growing season.

dealer, he still has fertilizer blending equipment. "We bring in truckloads of straight phosphorus, sulfur and potash and custom-blend for the fields," he says.

The combination of their remote location and an interest in efficiency underpins their equipment management plans. Vreeling is comfortable running his Steiger Quadtrac tractors for several thousand hours, but trades combines every two or three years. "We simply can't afford downtime at harvest," he says.

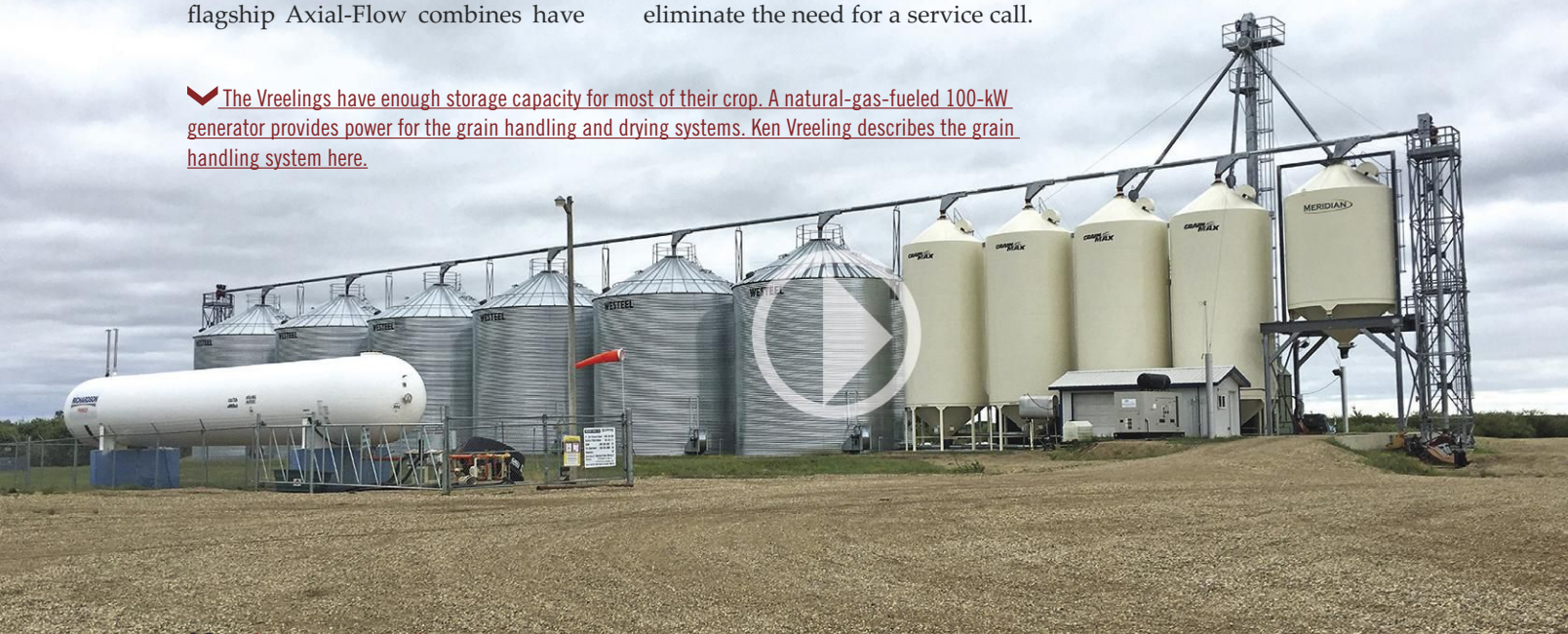
Even though Vreeling says the flagship Axial-Flow combines have been very reliable, he enters each harvest with an ample supply of parts. "Our dealer's been good about helping us carry a full set of parts we might need," he says.

Vreeling is evaluating the Case IH AFS Connect advanced farm management system. It would give him the ability to monitor the status of his tractors, combines and sprayer from his office computer or an iPad. Even more appealing to him is AFS Connect's option for his Case IH dealer to analyze fault codes and other equipment issues, which could eliminate the need for a service call.

"I see a place for this technology on our farm, especially for diagnostics. If we can do that through AFS Connect, rather than having a service truck run up and down the road, it's more efficient for everybody," he says.

The Vreelings have on-site storage for about 90 percent of their crop and use grain bags for the rest. With the nearest grain terminal more than 75 miles away, Vreeling says hauling grain is a year-round job. "There are a lot of options in grain marketing that weren't there 10 years ago," he says, citing different types of contracts offered by grain buyers. His son, Michael, is taking the lead on marketing, while Ryan focuses on production.

"We see a lot of opportunities to put new technologies to work in grain farming," Vreeling says. But one thing that won't change for them is their location. "We're pretty isolated, but that's OK. We like being on our own up here." ■



The Vreelings have enough storage capacity for most of their crop. A natural-gas-fueled 100-kW generator provides power for the grain handling and drying systems. Ken Vreeling describes the grain handling system here.

THERE ARE 6,272,640 SQUARE INCHES IN EVERY ACRE.

With the new Tiger-Mate® 255 field cultivator and 2000 series Early Riser® planter, you can maximize every single square inch you farm. It's creating the most level seedbed in the industry, while others are just scratching the surface. It's the ability to gauge ground pressure 200 times per second. It's targeting a nickel-sized area to plant a seed — and never missing. Then, inch by inch, the result is productivity like you never thought was possible. Start rethinking the productivity of your seedbed by visiting a local Case IH dealer or **caseih.com/Seedbed**.

AGRONOMIC DESIGN™

RETHINK PRODUCTIVITY

175 CASE IH AGRICULTURE 1842-2017

Online Account Access with *My Account*

CONNECT TO CONVENIENCE

It's easy to access your CNH Industrial Capital account with ***My Account***.

ACCESS WHAT YOU NEED, WHEN YOU NEED IT

- Enroll in Automatic Payment Plan or electronic billing statements
- Obtain payoff quotes (on eligible accounts)
- Access account documents such as billing statements and interest letters
- View original contract terms, payment history and interest paid

Enroll for secure and convenient access from any of your devices – use your smartphone, tablet or PC!

Sign up at www.cnhindustrialcapital.com

CNH INDUSTRIAL | CAPITAL

See the My Account website for full terms and conditions.

Captive Financing **Is a Viable Option**

Equipment-focused lenders play a valuable role

Rain makes grain, but money makes the whole farm grow. And like rain, the availability of funds for agricultural loans can also vary.

As overall North American net farm income has dropped from its peak in 2013, ag lenders and borrowers have become more conservative. In its July 2017 Main Street Views report, the Federal Reserve Bank of Kansas City notes that "persistent declines in farm income have likely slowed the volume of new non-real estate loans as bankers and borrowers have sought to manage risk."

In periods like this, the differences between captive lenders such as CNH Industrial Capital and commercial lenders become more distinct.

"We see banks starting to pull back a little bit, while our interest in financing equipment remains strong," explains Tom Mariani, chief credit officer for CNH Industrial Capital, the captive finance company for Case IH.

"As a captive lender, we're singularly focused on one thing: we finance Case IH agricultural equipment along with the other brands manufactured by CNH Industrial," he says.

Banks, on the other hand, lend in many different areas.

"Agriculture, especially agricultural equipment financing, is generally just one of many markets commercial banks lend to. So when one market becomes challenging, they may lend deeper in other areas," he says.

Even if there are no constraints through the producer's primary lender, Mariani says the CNH Industrial Capital organization has developed reasons to become their equipment lender of choice. These include:

- **Speed.** CNH Industrial Capital places priority on quick response to loan applications, says Mariani. "We've developed a proprietary approval process. The speed at which we can respond, even for very large transactions, is one of our benefits," he says.
- **Simplicity.** "We tend to keep things pretty simple. We're equipment lenders, and we understand how to do that," says Mariani. The Case IH dealer is a knowledgeable partner in the process as well. There's no time spent dealing with lenders who are unfamiliar with agriculture or equipment.
- **Flexibility.** For many years, CNH Industrial Capital has offered flexibility in its terms by developing payment schedules to fit the cash flow needs of ag producers. More recently, CNH Industrial Capital has expanded this flexibility to assist producers who have been impacted by natural disasters such as hurricanes, floods, extreme drought and fires. "We reach out to customers affected by these events to see if we can offer any special accommodation for them," Mariani says. "We want to help and to keep them as customers."
- **Competitive programs.** Special incentives such as zero-percent, low-rate financing and no down payments are frequently available for certain models of Case IH equipment. CNH Industrial Capital continually strives to offer competitive programs like the ones listed above.

Looking forward, Mariani says CNH Industrial Capital is developing new technologies for more efficient communication with customers and ways to further simplify a lengthy documentation process. These will enhance the capabilities of an ag-knowledgeable and customer-focused account service team.

"Having diversity in your financing can be a good option," Mariani says. "And for equipment financing, a captive lender such as CNH Industrial Capital can be a valuable partner." ■

This article was developed in cooperation with CNH Industrial Capital. CNH Industrial Capital provides a comprehensive range of services including, wholesale and retail financing, leasing, insurance, asset management and revolving lines of credit for the global marketplace. Building on more than 70 years' experience in the equipment finance industry, CNH Industrial Capital is helping Case IH dealers and well over half a million customers throughout North America, Latin America, Europe and Australia.

New Planter Options

More configurations added to 2000 series Early Riser planters

Producers seeking the newest seed management technology combined with agronomically superior seed placement will find their answer in the Case IH 2000 series Early Riser planters.

Introduced prior to the 2016 planting season, the 2000 series planters feature fully integrated, electric-drive seed metering systems from Precision Planting®. They include a new, more robust Early Riser row unit designed for easier depth adjustment plus increased vertical travel and durability to perform accurately and consistently at planting speeds up to 10 mph.

> "New 2000 series planters are now offered in pivot transport models.

Initially offered as the 2150 and 2160 models in front-fold versions from 12 to 36 rows, Case IH has expanded the 2000 series planters with new configurations to completely update the previous 1200 series models.

"As part of the launch of these new planters, we sought feedback from the producers running them," explains Tony McClelland, Case IH planter marketing manager. "They confirmed that the factory integration of Precision Planting components was a big draw for them. They reported excellent seed singulation and spacing, together with the agronomic benefits of the Early Riser row units.

"It's a 'best of both worlds' combination that sets the stage for the highest possible yields," he says. "Now we're bringing these high-efficiency planting capabilities to more Early Riser planter models."

New pivot transport models

The 2140 Early Riser planter is a pivot transport model available in six configurations, including split-row 15-inch and ultra-narrow-row 20- and 22-inch versions. The split-row models have the option of 12/24 and 16/32 even-row versions in addition to the 12/23 and 16/31 models. The split-row units can be raised hydraulically through the AFS Pro 700 display.

The new 2140 series has improved weight distribution that reduces compaction, particularly on row-end turns. Wing sections have greater flexibility with up to 21 inches of wing wheel travel. Combined with each row unit's ability to move vertically up to 16 inches, seeding depth is more consistent across rolling terrain.

Producers can choose the available in-furrow liquid fertilizer delivery system for effective and efficient pre-emerge applications. It includes 400 gallons of liquid fertilizer capacity with built-in agitation as well as a centrifugal pump and available

The 2160 Early Riser front-fold planter is available in 32- and 36-row configurations with the optional Rowtrac Carrier System.

row-by-row shutoffs. The AFS Pro 700 display manages system pressure, flow feedback, variable-rate application and mapping.

All 2140 series planters can be quickly changed from planting mode to a 13.5-foot transport width. Row units can be raised to shoulder height for easier service.

On all 2000 series Early Riser planter configurations, the integrated Precision Planting technology, including the vSet 2® seed meter and vDrive® electric-drive motor, eliminates the driveshafts and chains needed for mechanical-meter drive systems. It makes for a much simpler toolbar and reduces maintenance.

Case IH 2000 Series Early Riser Planters

2140 Pivot Transport Planters

Six configurations featuring 15-, 20- and 22-inch row spacing in wheeled or tracked carrier options.

2150 Front Fold Trailing Planters

12-, 16- or 24-row configurations with 30-inch row spacing.

2160 Large Front Fold Trailing Planters

32-row configuration with 30-inch spacing or 36-row configuration with 20-, 22- or 30-inch spacing in wheeled or tracked carrier options.

Rowtrac Carrier System for increased flotation

The Rowtrac Carrier System is currently available on all 2160 series planters and will be available on the 2140 series planters for model year 2019. Incorporating proven components from the Case IH Magnum and Steiger Rowtrac drive systems, the Rowtrac Carrier System provides greatly increased flotation, reduced compaction and an overall smoother ride compared to tires; it also improves depth control.

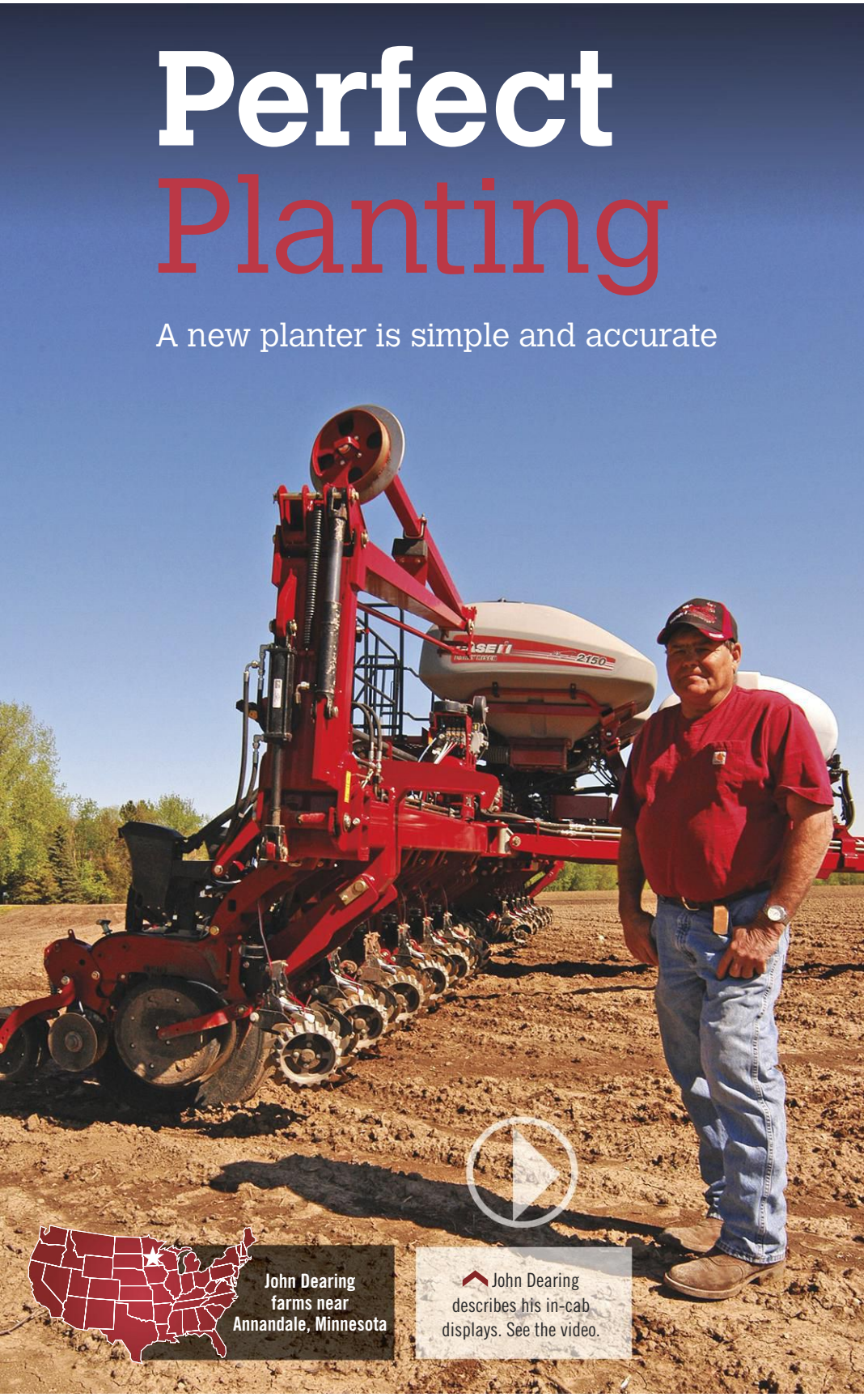
With two tracks replacing the four transport tires, the planter's weight is distributed over more than twice the soil surface area. Traffic rows are reduced by 50 percent, and pinch rows are eliminated. The tracks also reduce the possibility of downtime resulting from flat tires.

On the 2160 series planters, the Rowtrac Carrier System is steerable in transport mode.

"Growers can match their planter with the Rowtrac Carrier System to a Magnum Rowtrac or Steiger Rowtrac tractor on the same row settings," McClelland notes. ■

Perfect Planting

A new planter is simple and accurate



John Dearing farms near Annandale, Minnesota

John Dearing describes his in-cab displays. See the video.

Prior to the 2016 planting season, John Dearing planned to add Precision Planting® components to the 16-row Case IH 1255 planter he had used for several years.

He saw the Precision Planting technology for seed control and monitoring as a way to maximize the potential of every seed he places.

When he learned that Case IH had a new planter on the way, with Precision Planting components added as a factory option, he decided the new planter would be a better decision.

"Any time things are set up at the factory, it seems like a cleaner process and everything works together better," he says.

Dearing, who farms 2,300 acres of corn and soybeans near Annandale, Minnesota, has embraced new technologies as they've become available. For years, he's made yield maps using Case IH AFS harvest monitoring and mapping tools. His fields are grid sampled, and his fertilizer dealer provides variable-rate applications.

Prescription-driven, variable-rate planting, he figured, could increase yields on his best soils and save seed on less productive soils. Frequently, these variable soils share the same fields on the rolling ground he farms.

Case IH introduced Precision Planting technology, including the vSet 2® meters, vDrive® electric drive systems and DeltaForce® hydraulic downforce, as factory-integrated options for the new 2000 series Early Riser planters in 2015. Other new features of the 2000 series planters included more robust, cast-iron row units with increased vertical travel to handle higher planting speeds.

Dearing purchased his 16-row, 30-inch 2150 Early Riser front-fold planter with Precision Planting options in time for the 2016 crop year. Now, after two years of use, he

says it's an easy-to-use planter that delivers excellent seed placement and precise population control.

"I'm looking to save on seed and be more efficient," he says. "Population is a big thing now, so you have to have perfect spacing. I'm seeing uniform ears throughout the field and perfect spacing from this planter."

The vDrive electric drive system provides immediate row-by-row response to the population changes called for by Dearing's prescriptions. He had tried performing variable-rate planting with his previous planter, making the population changes manually as he moved through the field, but says the hydraulic drives didn't respond fast enough. "With this electric drive system, the changes are immediate," he says.

The electric drives also eliminate the chains and cables used by previous planter drive systems, along with the maintenance they require.

More acres per day

Dearing's planter also has DeltaForce hydraulic downforce control. It constantly monitors row-unit gauge wheel load and responds automatically by adding or removing weight up to five times per second to maintain the desired seed depth, regardless of ground conditions.

Dearing credits this precise depth control for increased productivity. "DeltaForce keeps the row units from bouncing," he says. This gives him confidence to plant at 6 mph, which is 1 mph faster than he previously planted.

"Planting 1 mph faster adds more acres per day, so that's more efficient," he says. With the addition of the optional SpeedTube, a flighted seed delivery tube, Case IH says the 2000 series planters can perform accurately at speeds up to 10 mph.

John Dearing chose this 16-row 2150 Early Riser front-fold planter for its factory-integrated Precision Planting seed management technology. It delivers immediate response to his variable-rate prescriptions.

With the rocks, terraces and irregular fields he encounters, Dearing says he's very comfortable staying at 6 mph.

Adjustable CleanSweep® row cleaners and closing disks add to the planter's ability to create an ideal seed environment, regardless of soil and residue conditions. Both components can be easily managed from the cab to meet changing conditions.

Dearing says he saw the benefits right away when he combined two smaller fields, previously in corn and soybeans, into one large corn field. DeltaForce automatically managed downpressure throughout thechanging conditions, and he adjusted the row cleaners and closing disks as he crossed between the two fields with their different residue coverage.

Dearing pulls the 2150 planter with an AFS AccuGuide auto-guidance-equipped Case IH 335 Steiger tractor, which gives him more traction in the wet spots he encounters compared to the MFD tractor it replaced.

In the cab, his displays include the AFS Pro 700 and Precision Planting's 20/20 SeedSense®, which work together to monitor and control all planter operations. He also uses Climate FieldView™ on an iPad to record as-applied mapping for further analysis.

In the field, Dearing says he most often watches the spacing, row-unit ride and downforce displays on the 20/20 SeedSense. Together they provide a good indication of seed placement accuracy and whether he can run faster or should slow down as ground conditions change.

Like his previous planter, his new Early Riser 2000 series includes twin 50-bushel seed hoppers and a 400-gallon liquid fertilizer tank. New to this unit is a scale system for the seed hoppers, which displays through the Pro 700. He says being able to add the exact amount of seed for a field eliminates emptying unused seed from the hopper.

Overall, Dearing sees this planter as a step forward in planting efficiency, with the advantage of fully integrated technology. "There are a lot of nice features here, and with the electric drive, everything runs so smoothly," he says. ■

BEHIND EVERY GREAT TRACTOR IS A GREAT TRACTOR.

Since 1989, Maxxum® series tractors have earned a reputation for longevity, reliability and productivity. For the next generation, Case IH introduces the new ActiveDrive 8, 24-speed transmission – featuring eight powershift speeds in three electronically shifted ranges. Use the middle range for working speeds between 2.4 and 10.7 mph, without torque interruptions or range changes. The new Heavy-Duty MFD front axle – the toughest front axle ever offered on Maxxum tractors – is built to take on your toughest tasks. Ideal for beef, dairy and row crop operations, models range from 116 to 145 HP and include a 2WD option. Choose from three configurations: the ActiveDrive 4 semi-powershift transmission, new ActiveDrive 8 dual-clutch transmission, and CVXDrive™ continuously variable transmission. To learn more, visit **caseih.com/Maxxum**.

RETHINK PRODUCTIVITY

175 CASE IH AGRICULTURE 1842-2017

New Data-Sharing Agreements

Case IH collaborates with cloud-based providers for seamless data transfer through AFS Connect

Along with thousands of bushels of grain, your yield monitor-equipped combine is harvesting millions of bits of data as it rolls through the field.

Both "crops" are valuable, and both are yours to be managed to your benefit. And just like the grain that's of little value until it's fed or sold, the data can become more valuable when it's shared with trusted suppliers working on your behalf.

The fact that yield data, along with other crop-production data, is increasingly valuable in today's tech-driven ag world makes the topic of data ownership, security, access and control evermore important.

For its part, Case IH has taken the position that all data gathered by Case IH equipment and its systems belongs exclusively to the owner of those systems.

Case IH is a member of the Open Ag Data Alliance (OADA), a group formed in 2014 to create a secure data ecosystem that enables data security, privacy and interoperability. The OADA platform recognizes that farmers own their data, and the group has the mission of developing data storage and transfer mechanisms focused on compatibility, security and privacy.

Leveraging from this commitment to seamless and secure data transfer among trusted suppliers, Case IH recently announced data-sharing agreements with several farm-management services to connect and wirelessly transfer data between them and the Case IH AFS Connect farm management system.

"This collaboration with these cloud-based, agronomic decision-making software companies gives producers new options for connecting their farm with trusted advisers," explains Leo Bose, Case IH AFS marketing manager.

From any computer or tablet connected to the internet, producers with AFS Connect can securely share agronomic data, such as yield maps and guidance-line patterns from their AFS Pro 700 monitor, with their trusted providers. In turn, these resources can send data such as prescriptions for variable-rate planting and fertilizing.

These providers currently provide seamless and secure data transfer through AFS Connect:

- My Farm Manager online platform from Decisive Farming. Decisive Farming focuses on precision agronomics, crop marketing and information management. Its online platform connects producers with service providers, including agronomists, grain elevators and equipment dealers.
- Encirca Services from DuPont Pioneer. Encirca Services combines technologies for weather, soils and agronomy with the producer's field operations data. These proprietary analytics and a personal adviser help producers make timely management decisions to control costs and maximize crop yields.
- AgStudio software from MapShots. AgStudio software consists of powerful yet easy-to-use tools for managing large amounts of agronomic crop-production data. The software enables robust and flexible crop recordkeeping and agronomic data management for producers and their advisers.
- Onsite technologies from AgIntegrated. Onsite technologies enable the flow of information between disparate system software, data and equipment. Custom apps streamline the collection of as-applied, as-planted and yield files in order to transfer prescription files to equipment in the field.

> "Data can become more valuable to you when it's shared with trusted suppliers.

Case IH seeks to expand its data-sharing agreements. Interested agronomic service providers can seek further information at **developer.cnhindustrial.com**.

Keeping It Growing

An Ohio family focuses on efficiency and stewardship

"Probably the biggest change for Jim and I is to keep up with the technology," says David Miller. "Fortunately, these guys are doing more of that, along with the overall management."

David and his brother Jim are well along into transitioning their southern Ohio cash grain operation to David's son, Jon, and to Jim's sons, Derek and Andrew. It's the progression of the farm started by their father, Max. He began farming the land near Pleasantville in 1950 with his late brother, B.F. "Bean" Miller, and continues to stay involved.

The operation, known as Pville Farms, has expanded to about 3,500 acres of corn, soybeans and wheat as well as side businesses such as seed corn sales, lime application and straw.

Along the way, both generations have followed Max's philosophy: When you see a piece of equipment that will do a better job, buy it. For Max, this included a string of innovative tractors such as a Farmall 1206, an International 4100 four-wheel drive and one of the first International Axial-Flow 1480 combines in production.

Today, the families run a predominately red operation they credit to both the performance of the equipment and strong dealer support.

The Millers have focused on efficiency and stewardship in their farming operations. They own a tile plow and ditching machine to continually control and improve drainage. They have made yield maps for years, and all fields are grid sampled for fertility. Their custom lime-spreading business came about after they purchased a floater applicator for their own needs.

"There was a void in this area for lime application, so since we had the equipment, we began doing the custom work," Andrew explains.

After corn harvest, they apply whatever lime or dry fertilizer is needed and then chisel the stalks using a Case IH Ecolo-Tiger 870 disk

Three generations of the Miller family farm together as Pville Farms. From left are Jon, David, Max, Derek, Andrew and Jim.

The Millers farm near Pleasantville, Ohio

ripper. "That's a good machine; we really like it," David says.

As longtime growers of non-GMO soybeans, David says running the 870 after harvest helped with their desire to reduce weed pressure. "We always like to start with clean fields," he says.

While they're reducing their non-GMO acreage as premiums decline, new weed pressures have increased their interest in fall weed management.

Recently, they have been spraying postharvest for marestail and pigweed. "We spray in late October, after the first hard frost, even after we run the 870. This fall spraying has really helped," Jim explains.

The majority of their acreage is corn, planted with a 24-row 1255 Early Riser planter. A 1240 12/23-row splitter planter provides additional capacity for corn and soybeans.

Their 1255 planter is equipped with the Precision Planting® DeltaForce® automatic downforce system and 20/20 SeedSense® monitor for row-by-row downforce monitoring and control. It provides the ability to easily manage row-unit downforce as conditions change.

"We see now that we probably ran too much downpressure using the springs," Andrew says. "Plus, we probably didn't adjust the springs as often as we should have. Now we can make changes quickly from the cab."

Max says that even from their days with the Cyclo planter, they have always had good-looking early corn, thanks to the Early Riser row units. Now, David says they're convinced that uniform emergence is a key component of excellent yields.

The automatic downpressure control has further improved uniform emergence, and he sees the advanced seed-placement control now possible with the new Precision Planting seed-management technology, available on the Case IH 2000 series planters, providing further benefits.

The Millers' facilities include 325,000 bushels of grain storage and enough liquid fertilizer capacity for a majority of their annual needs.

"Those new planters, with that technology installed at the factory, looks good to us," David says.

"From what we're seeing, we'll be able to order our next planter set up exactly the way we want it, with the technology and liquid fertilizer, without doing anything to it in our shop," Jim adds.

For both wheat and soybeans, they use a 30-foot Case IH Precision Disk 500T air drill. The Millers say it's a productive rig, with a 70-bushel hopper that can be filled in just a few minutes from their seed tender.

Available in 10-inch or 7½-inch row spacings, they chose the narrower spacing, as they use the drill for all their wheat. However, David says that in good conditions, they see little difference between the soybeans planted on 15-inch rows and the drilled beans.

"Especially on our early-seeded beans, we see seed treatments as a big help for getting them out of the ground and off to a good start," David adds.

At harvest, the Millers use one Axial-Flow 8240 combine. It's the latest in a line that began with Max's first Axial-Flow combine in 1978. For years, they ran two Axial-Flow combines. When the flagship series was introduced, the Millers figured they'd use the extra capacity of the newer combine to downsize to one machine. In the process, they traded from a six-row corn head to a 12-row and added a 45-foot draper head and a grain cart.

"We've been impressed with this series of combines," David says. "We've had good luck with them. They've been very reliable and have always given a high-quality sample."

Small Bales, Big Business

The Millers have developed a business supplying wheat straw to horse racetracks on the East Coast, as well as to garden centers, landscapers, pipeline contractors and other commercial users.

"These buyers want the small square bales. They're easy to handle," explains Derek Miller, who heads up the straw operations. Using three Case IH SB541 balers, the Millers bale as many as 90,000 bales in a season from about 800 to 1,000 acres.

To obtain the full-length straw the horse racetracks desire, the Millers harvest their wheat using a stripper header on their Axial-Flow combine. A rotor with rows of stripping fingers strips the grain from the crop in the header, leaving nearly the full length of each wheat stem intact. After harvest, they cut and windrow with a sicklebar swather.

Derek matches the balers to their Magnum and Puma tractors and especially likes the CVT transmissions for baling. "We just set the speed and go," he says.

Derek says their customers typically send trucks to be loaded in the field. The balers are equipped with accumulators to hold 12 bales at a time.

He's used the Case IH balers for more than 10 years, saying they're dependable, easy to adjust and have ample capacity. "We can push them when we need to. We've had a few days of baling 8,000 bales with all three."

Derek Miller (right and above), along with Andrew and Jon, bale up to 90,000 straw bales per year using three Case IH SB541 balers.

They keep their combine fairly new, trading up every two to three years, and Jim says their dealer support has been tremendous at getting them up and running when any problems occur. "We're putting a half-million bushels of grain through that combine every year," he says.

Just as they do with the Axial-Flow combines, the Millers have a long history with Quadtrac tractors, dating back to their first 9370 in 1997. It was among the first Quadtrac tractors sold in Ohio.

"We've probably had 10 Quadtrac tractors," Max says. He's demoed a few two-track tractors and others along the way, but the pulling performance and smooth ride has kept him and the family running Quadtracs. "There's nothing that compares to them," he says.

David adds that the Quadtrac tractor's narrow width, compared to a similar tractor with duals, is an advantage for the narrow roads they travel to reach farms up to 20 miles away.

Other tractors on the Millers' farm include four Magnum tractors – a 370 CVT, a 260 CVT, a 215 and a 315 – and a Puma equipped with a loader. They've acquired much of the equipment through CNH Industrial Capital. "Being able to handle the loan at the dealership just makes it easier, and we find the rates to be very competitive," Jon says.

Looking forward, the Millers see more opportunities to add new technologies, particularly for planting and making sure they can be timely with their operations. "If we expand more, we'll reassess running just one combine," David says.

They also benefit from each other's involvement in ag industry roles, such as Jon's position as a board member and current vice president for the Ohio Corn & Wheat Growers Association and Dave and Andrew's roles as seed dealers.

And, they have the tradition of a family working together that Max and Bean started nearly 70 years ago. ■

Think Differently About Crop Residue

Focus on its value and the next crop

Remember when crop residue used to be called trash? The fact that we now call that material left in the field after harvest by a higher-quality name reflects the reality that it holds value, both as its use for the actual material, such as baled straw, and for the benefits that properly managed crop residue can offer the soil. These include reducing wind and water erosion, increasing overall organic matter and providing some nutrient value.

Effective residue management starts with the decisions you make at harvest. Your combine presents a great deal of latitude for leaving residue mostly intact or finely chopped and distributed. For example, in small grains, running the header as high as possible will reduce the amount of straw going through the machine, reducing the volume of ground-up straw and leaving more standing straw for erosion protection.

Conversely, when running the header lower, it puts more straw through the machine and the straw chopper, sizing more of the stems for better decomposition.

It's a similar story in corn. While header height doesn't affect the amount of material entering the combine, lower header heights pull more of the stalk through the stalk rolls in the header, which tend to crush tough stalks and open them for faster decomposition. Chopping corn heads offer the option of chopping stalks at harvest.

The residue-chopping and spreading capabilities of combines are keeping pace with the increased interest in residue management. Case IH Axial-Flow combines now offer standard chopper and spreader options ranging from windrow to full width of cut. The larger 240 series combines offer the optional MagnaCut chopper to obtain chopped residue from the toughest crops.

Unless your postharvest plans call for harvesting straw or stover, you'll likely want to chop residue as finely as possible from the combine and spread it the full width of the header. This is a key step in helping promote even germination and emergence of the next crop.

After the combine leaves the field, you have multiple options for managing residue and preparing the seedbed. Whatever method you choose, your goal should be a seedbed with consistent moisture and temperature as well as ample tilth for good seed-to-soil contact, root growth and air and moisture movement. ■

Residue-Management Equipment Options

RESIDUE-MANAGEMENT GOAL: Aggressively cut residues; open up tight, compacted soils.

EQUIPMENT: Disk rippers

BENEFIT: Aggressive residue sizing; reestablishes pore space for air and water movement.

RESIDUE-MANAGEMENT GOAL: Aggressively cut and mix heavy residues; smooth rough fields.

EQUIPMENT: Disk harrows

BENEFIT: Aggressive cutting and sizing of residues; leveling; leaves darker surface for faster spring warmup.

RESIDUE-MANAGEMENT GOAL: Size residues; mix dry fertilizers and chemicals; leave ample residue coverage.

EQUIPMENT: Vertical tillage

BENEFIT: Sizes residues; promotes decomposition; uproots light weed growth.

RESIDUE-MANAGEMENT GOAL: Mix residues, dry fertilizers and chemicals prior to seeding.

EQUIPMENT: Field cultivators

BENEFIT: Thorough stirring and mixing; uproots initial weed growth. Add trailing conditioning systems to size clods and firm seedbeds.

RESIDUE-MANAGEMENT GOAL: Manage residues in-row prior to planting.

EQUIPMENT: Strip-till implements

BENEFIT: Creates a narrow ready-to-plant seedbed while retaining full residue cover between rows.

CASE IH AGRICULTURE

shopCaseIH.com

SAVE 20%

on orders of $85 plus!*

NEW JACKETS! Perfect for the fall!

Many more gift ideas at shopcaseih.com

Use Code: **FORUM20** at check out.

*Use Coupon Code: FORUM20. Offer expires December 31st, 2017 at 11:59pm E.S.T. Some exclusions apply. Excludes sale and clearance items, previous purchases, pending purchase, items and gift cards. While supplies last. Cannot be combined with any other offers or promotions. No rain checks. Intermediate markdowns may have been taken. Quantities are limited. Not all items available in all sizes and colors.

Greater Demands, **Better Protection**

Case IH engine oil exceeds new standards

New fluid technologies from Case IH are field-tested to meet or exceed the latest performance demands on diesel engine oil.

Case IH was a pioneer in adopting SCR engine technology and has been at the forefront of clean diesel emission technology ever since. The latest industry standard for lubrication oils used in diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emissions standards as well as for previous model year diesel engines, called API CK-4, was issued by the American Petroleum Institute (API) and finalized in 2016.

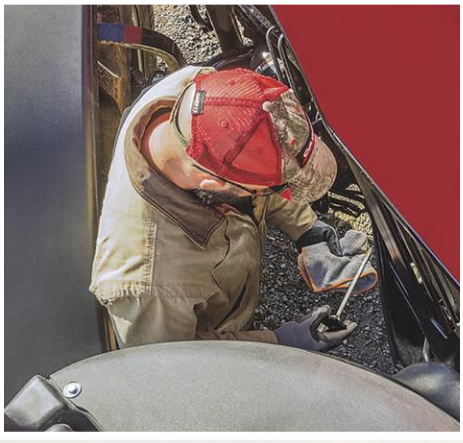
Case IH exceeds this new standard with Akcela No. 1 15W-40 engine oil, produced since 2013 for use in Tier 4 and prior engines. It surpassed the CK-4 requirements then and was among the first oils on the market to carry the new designation.

In adopting the new engine oil formulation, Case IH used a cross-functional team from engineering validation and product engineering to ensure the product met rigorous design, testing and engine performance requirements. This process ensures maximum performance at the specified oil change intervals.

Case IH Akcela No. 1 15W-40 oil provides enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase.

The Case IH Tier 4 high-horsepower engines don't use diesel particulate matter filters, thanks to their Efficient Power SCR-only emissions solution. However, these filters might be present in the Tier 4 engines used in other makes of farm equipment and trucks.

The new Case IH Akcela No. 1 CK-4 15W-40 oil can be used in these engines that call for oil complying with the API CK-4 or CJ-4 standard, which simplifies oil management in mixed fleets.



Case IH Akcela No. 1 engine oils provide maximum lubrication performance even at extended oil change intervals.

New synthetic oils underway

As a mineral-based oil, Case IH Akcela No. 1 has established a long track record of superior performance. Now, to keep ahead of the ever-higher demands placed on engine oils, Case IH is finalizing certification of its No. 1 SSL semi-synthetic and synthetic engine oils in 10W-40 and 0W-40 weights.

These semisynthetic and synthetic oils provide even higher levels of lubrication protection at temperature extremes compared to mineral-based oils. They are especially well-suited for producers who take advantage of the extended oil drain intervals on Case IH Efficient Power Tier 4 engines.

All Case IH engine oils provide superior performance in Case IH equipment and in other machines and vehicles calling for oil meeting the specified service categories. The evolution of Case IH No. 1 SSL lubricants into 10W-40 and 0W-40 with industry-leading specifications continues this heritage of leadership in agricultural equipment lubricants and fluids. ■

NEW PRODUCTS

Case IH continually introduces new and updated equipment. Here's a look at several products that can bring added efficiencies to your farming operation.

The Nutri-Placer 930 HSLD fertilizer applicator features the new High Speed Low Disturbance coulter and durable cast-iron components for optimal anhydrous ammonia placement at speeds up to 11 mph.

The 22.6-inch diameter single coulter slices through residues with minimal soil disturbance. Its 4-degree blade angle opens a precise slot for accurate nutrient placement. A spring-loaded, cast-iron knife features carbide inserts for extended wear and protection for the fertilizer tubes. A wiper wheel holds the soil in place as the coulter opens the slot; a two-stage closing system using a Shark Tooth blade and a walking tandem press wheel collapses the slot and levels and firms the soil.

The result is effective fertilizer placement up to 6 inches deep while maintaining valuable residue coverage. The Nutri-Placer 930 HSLD applicator is offered in five widths from 27.5 to 47.5 feet on 30-inch row spacings.

Efficient multipurpose Puma series tractors are capable of handling a wide range of tasks. Choose from six models from 125 to 210 PTO hp with maximum engine boosted horsepower ratings from 190 to 270.

The short-wheelbase Puma 150 and 165 models, at 125 and 140 PTO hp, are well-suited for livestock and hay and forage work. The longer-wheelbase Puma 185, 200, 220 and 240 models can handle row-crop tasks including tillage, planting, sidedressing and spraying. All models feature the efficient MultiFunction handle and MultiControl armrest controls shared by Optum, Magnum and Steiger tractors.

Growers can add the optional AFS Pro 700 display for fully integrated AFS AccuGuide autoguidance. The Pro 700 display also provides full control of Case IH LB4 large square balers, Early Riser planters, Precision Disk drills and all ISOBUS-compliant implements.

Choose from an 18 x 6 full powershift transmission or the productive CVT transmission (standard on the Puma 240). All Puma models are powered by 6.7-liter, six-cylinder engines that are Tier 4B/Final compliant using the Case IH simple and efficient SCR-only technology.

Precision Disk single-disk air drills are versatile high-speed drills with the ability to seed soybeans and small grains in a wide range of soil and residue conditions.

Each row unit uses an 18-inch diameter single-disk opener running alongside a gauge wheel to maintain accurate depth. Set at a 7-degree angle, these single-bevel disks slice through residue to open a high-quality seed trench, even at shallow depths, while minimizing "hairpinning" of residue. A single hand-operated "T-handle" depth adjustment on each row can set depths to 3.5 inches deep in 14 clearly marked increments.

Downpressure on each opener is controlled by a progressive-rate downpressure spring. A single-point hydraulic control system maintains consistent downpressure across all row units. Choose from 60, 75 or 100 pounds of downpressure on each closing wheel; use an optional in-cab control to adjust down-pressure on the go.

Precision Disk air drills perform in the 5- to 8-mph range. The Precision Disk 500T, available in 25-, 30- and 40-foot widths, carries a mounted seed tank of 70 bushels (25 and 30 feet) or 100 bushels (40 feet). Match the Precision Disk 500, with widths of 30, 40, 50 or 60 feet, to a Case IH Precision Air cart with seed capacities up to 430 bushels.

New Steiger series CVXDrive tractors feature the first continuously variable transmission engineered for articulated 4WD tractors up to 605 peak horsepower. Available in wheel, Quadtrac and Rowtrac configurations, the CVXDrive models combine the convenience and control of a CVT transmission and the superior traction, efficiency and operator comfort of the Case IH Steiger tractors.

The new Steiger CVXDrive transmission is based on the proven Case IH CVXDrive transmissions used in Magnum, Optum, Puma and Maxxum models. These transmissions provide infinitely variable speeds, forward and reverse, with one-handoperation using the integrated split-throttle on the MultiControl armrest.

The Case IH CVXDrive transmissions continually manage the engine speed and gear ratios to work at the most fuel-efficient combination for the task. Their four-range design allows for a high percentage of direct gear-to-gear performance.

Steiger tractors equipped with the CVXDrive put uninterrupted power to the ground at speeds ranging from 3 feet per minute up to 25 mph. This smooth, seamless flow of power at all speeds makes these tractors highly productive in applications such as planting and seeding, secondary tillage and hauling grain carts and slurry tankers in the field and on the road.

The ultra-slow ground speeds make the CVXDrive tractors especially well suited for working with tile plows, scrapers and land reclamation equipment. Their seamless acceleration, quicker deceleration with additional braking power and active stop capabilities provide additional control and improve cycle times in haulage operations.

Choose the right Steiger CVXDrive tractor for your operation with up to 17 configurations available in wheeled, Quadtrac and Rowtrac models from 370 to 540 hp.

Ecolo-Tiger 875 disk rippers deliver aggressive disk-cutting power and high underframe clearance to slice, mix and level residue from tough, heavy crops. Big 24- or 26-inch diameter cushion-gang Earth Metal blades run at a spacing and angle agronomically designed to provide optimal residue sizing, soil mixing and residue flow. Patented Case IH Tiger points have wings that extend downward, rearward and outward to "lift, twist and roll."

This action shatters compaction and relocates soil particles to create excellent pore space for maximum soil tilth. Add the optional double-edge reel to size large clods, level the soil surface and firm the residue to the soil for faster decomposition and reduced erosion. The Ecolo-Tiger 875 works at speeds from 5 to 7 mph. Choose from four models:7-shank 14-foot; 9-shank 18-foot; 11-shank 22-foot and 13-shank 26-foot.

High-capacity LB434XL large square balers are designed for large-scale hay and forage producers. The bale chamber is 31.5 inches longer compared to the LB434 baler and can deliver up to 10 percent higher bale density. A heavy-duty plunger runs at 48 strokes per minute; the PTO driveline can handle up to 40 percent more peak torque. Increased pickup auger thickness, more robust axle and bearing options and a stronger frame add to overall durability.

The LB434XL balers include ISO Class 3-enabled Feedrate Control technology. This allows for easy bale formation by controlling the speed of ISOBUS Class 3-compatible tractors, including Maxxum CVT, Puma, Optum (pictured) and Magnum models.

Use a Case IH AFS Pro 300 display or AFS Pro 700 display to monitor bale weight and moisture. Choose standard or rotor cutter models; bale sizes are 47 by 35 inches.

Add the 600 series Automatic Applicator System to apply hay preservative at automatically adjusted rates.

Case IH Steiger 620 Sets Performance Records

The most powerful tractor in the Case IH line has set several records validating its best-in-class overall performance.

The Case IH Steiger 620 set new records for drawbar fuel efficiency, drawbar horsepower and maximum pull in recent tests at the University of Nebraska Tractor Test Laboratory (NTTL).

The NTTL is the officially designated tractor testing station for the United States and tests tractors according to the Organization for Economic Cooperation and Development (OECD) codes. Twenty-nine countries adhere to the OECD tractor test codes, with active test stations in 25 countries. Established in 1919, the NTTL has tested more than 2,000 tractors.

In these three tests, the Steiger 620 achieved the highest marks ever recorded for any tractor ever tested at NTTL. And the Steiger 580 scored the second-highest drawbar fuel economy ever recorded by NTTL at 17.53 hp-hours per gallon.

Steiger 620 Tier 4B, 4WD with duals, Nebraska Test 2164

Maximum drawbar fuel efficiency:
17.63 hp-hr./gal

Drawbar hp:
556.83 hp

Maximum pull:
65,077 lbs.

For complete details, visit the NTTL website: **tractortestlab.unl.edu**

"Throwback Thursdays" Relive Ag's Past

Case IH has joined the popular social media trend of "Throwback Thursdays" by frequently posting a nostalgic image on its Facebook, Twitter and Instagram sites.

With a rich history of Case and International Harvester equipment dating back to the origins of mechanized agriculture, there are plenty of "Throwback" images to share.

Among the more popular images, based on the number of likes and shares, are scenes showing pieces of equipment that were trendsetting in their day and remembered fondly by many viewers. Scenes showing Farmall M tractors working in the field, Case Comfort King tractors, early Axial-Flow combines and older Steiger tractors are among the images that generate many "thumbs up."

Also popular on the Case IH social media sites are quizzes such as naming the model number of the featured equipment.

Sign up to receive the Throwback Thursday images along with timely news from Case IH social media sites here: CaseIH.com > Connect with Case IH > Social.

New Case IH UAV Package Offers Easy Aerial Imagery

A bird's-eye view of your crops at various stages of growth can provide valuable agronomic insight.

The new Case IH UAV package provides the equipment and software to fly over fields, record imagery and analyze and share maps and data.

In collaboration with drone industry leader DroneDeploy, the Case IH UAV package includes the DJI Phantom 4 Pro drone with RGB camera, a hard carrying case, an extra battery and a one-year subscription to DroneDeploy software.

The drone is capable of autonomous flight paths controlled through an iOS or Android device to make flying easy for all skill levels. It features Fieldscanner for local processing on the drone and mobile device to deliver instant in-field processing of drone imagery.

You can use available data analysis apps for crop scouting, stand establishment, crop damage analysis crop counting and more.

See your Case IH dealer for more details on the Case IH UAV package.

Axial-Flow Combines Retain Highest Value

The simple design, superior threshing performance and strong product support for Case IH Axial-Flow combines have long made them a favorite choice among used combine buyers. These qualities helped the Axial-Flow 140 series combines earn the EquipmentWatch 2017 Highest Retained Value award for combines.

EquipmentWatch is a world leader in data, software and insights for the heavy equipment industry. It calculates residual values according to market depreciation standards and proprietary algorithms, as well as fair market value and forced liquidation value records contained in EquipmentWatch values.

The Highest Retained Value Awards recognize manufacturers in 28 heavy-equipment categories for products that show the highest retained value over the last five years.

These awards are the only industry benchmark that relies on data-driven residual values to confirm and project an asset's value.

Add New AIM AccuPlacer to Your Sprayer

New from the Case IH Parts & Service group, the AIM AccuPlacer can be added to your self-propelled sprayer to place liquid nitrogen consistently within 3 inches of the crop for efficient uptake. The consistent drop and trailing provides for reliable nutrient placement, even on hillsides.

AIM AccuPlacer includes permanently mounted spray-boom brackets that allow the individual lightweight aluminum applicator drops to be easily added or removed with single-lock pins.

STRONG. SMART. SIMPLE.

For 60 years, Case IH Steiger® tractors have delivered. With sustained performance driven by productive innovation, like the new **CVXDrive™ continuously variable transmission**. CVXDrive seamlessly finds the perfect balance of power and efficiency for every application, from planting to laying field drainage tile. It helps you rethink what's possible. Because today, it all makes a difference — power, performance, productivity and comfort. And it all needs to work together. Steiger tractors put the most powerful equipment, built and backed by the right expertise, to work for you. See how the Case IH legacy can make a difference for you at your local Case IH dealer or at **caseih.com/steiger**.

RETHINK PRODUCTIVITY

175 CASE IH AGRICULTURE 1842-2017