

# FARM FORUM

FALL 2016

**CASE IH**  
AGRICULTURE

The Next  
Generation of  
Smart Planters

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Residue  
Management  
Starts With  
the Combine

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## 20 YEARS OF TRACK LEADERSHIP

PAGE 4





# TAKE YOUR NEXT GROWING SEASON TO A WHOLE NEW LEVEL.

Get a head-start on the next growing season with the new Case IH True-Tandem™ 335 Barracuda. Developed using proven Agronomic Design™ principles, the 335 Barracuda delivers aggressive soil and residue management to leave behind a blacker surface finish than other Case IH vertical tillage tools. Its rugged design is built for reliability at high speeds and the aggressive, new 22-inch serrated Earth Metal® blades stay sharper longer to break up hard, dry soils for increased nutrient cycling. Finish strong with the TigerPaw™ Crumbler® double-edge rolling reel that tucks residue into the soil surface for improved leveling and proper soil structure. Take your vertical tillage to a new level at [caseih.com/barracuda](http://caseih.com/barracuda).







**ON THE COVER:** The Case IH Steiger Quadtrac tractor celebrates 20 years of track leadership. Revolutionary from the outset, the Steiger Quadtrac models set the standard for big power, reduced compaction and a superior operator environment.

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**Publisher, Case IH:** Dan Danford

**Farm Journal Content Services:** Charlene Finck

**Farm Forum Editor:** Steve Davidson

**Art Director:** Lindsey Benne



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## FARM FORUM COMMENT

### Case IH DNA

The introduction of the Steiger Quadtrac tractor back in 1996 set a new bar for high-horsepower tractor performance. Its exclusive four-track system provided a more effective way to put power to the ground. And, it provided an agronomic solution for producers concerned about the yield-limiting effects of soil compaction from heavier equipment.

The Steiger Quadtrac tractor has been a great success story. Built on the Steiger articulated chassis—renowned for its strong, simple design—the four individually oscillating tracks provide ride, steering and ground contact qualities unmatched by two-track tractors.

The Quadtrac tractors were quickly adopted by producers looking for benefits including better traction, reduced compaction, and a smooth ride.



Today, Case IH Steiger Quadtrac tractors are working throughout the world, putting their combination of big power and traction to work in applications ranging from working heavy damp soils in the United Kingdom to pulling the biggest tillage and seeding equipment in Australia. They have even become the favored support vehicle in Polar regions, pulling supplies over miles of challenging terrain.

Innovation is in the DNA of Case IH. With significant global resources, we are continually investing in new ways to help agricultural producers become more efficient and profitable with innovative and agronomically designed products and support services.

*Jim Walker*

**Jim Walker**  
Vice President, Case IH NAFTA

# 20 Years of Tra

Revolutionary from the outset, Case IH Quadtrac tractors set the standard for big power and reduced compaction

**P**erhaps you were in the audience at the 1992 Farm Progress Show when the doors on a little red barn opened and a big articulated tractor equipped with four rubber tracks emerged to make several smooth laps around the Case IH arena.

That was a sneak peek of a dramatic new concept in high-horsepower tractors. Over the next five years, Case IH tested and refined this new product for the public launch of the Steiger Quadtrac tractor at the 1996 Denver Summit dealer meeting.

Now, 20 years later, the innovative Quadtrac design has established the clear leadership position among high-horsepower tractors. It leads the industry with its commanding 682 peak horsepower on the Steiger Quadtrac 620 and with eight models for applications ranging from precise row-crop work to commercial scraper operations.

## Less compaction, smoother ride

The Quadtrac concept was initiated to meet the agronomic challenge of soil compaction. For years, agronomists identified soil compaction as a primary constraint to higher yields. As farm equipment became bigger and heavier, soil scientists made note of the increasing problem of compaction and encouraged a “long narrow footprint” as the best solution.

The Quadtrac design delivered this desirable long narrow footprint and much more. The robust, proven Steiger tractor platform provided the key advantages of articulation and

oscillation. This gives Quadtrac tractors the ability to make tight turns without berming the soil and, with each of the four tracks individually oscillating up to 10 degrees, the benefit of maintaining full ground contact on uneven surfaces.

The compaction advantages were borne out in studies that showed ground pressures even lower than on most dual-wheel applications, with the added benefits of reduced transport width and the elimination of tire care and expense.

While early adopters of Quadtrac tractors sought reduced compaction, the Quadtrac’s ride quality in the field soon became a top-ranked feature. Not only was the ride more comfortable, it provided additional agronomic advantages. Being able to run 1 or 2 mph faster even on rough ground allowed





# Track Leadership

for more timely field operations, as did being able to work in fields too soft or wet for tractors on tires.

With their unique capabilities, Quadtrac tractors were soon deployed in demanding applications throughout the world. In duties as diverse as transporting sugarcane in searing Australian heat and dust to reclaiming land in south Florida swamps to towing fuel trains across frozen Antarctica, Quadtrac tractors have proven to be unmatched in delivering big power in demanding conditions, especially where minimal compaction and maximum traction are priorities.

Experience gathered from these extremes, along with hundreds of thousands of hours handling the largest tillage and seeding implements, has enabled Case IH engineers to continually upgrade the Quadtrac undercarriage to meet the demands of new applications and higher horsepower.

## Five-axle design delivers more power to the ground

Features including the [exclusive five-axle design](#) with three idler wheels on each track spread the tractor's weight evenly across the length of the track. This places equal pressure on the soil profile, putting more power to the ground and reducing slippage and compaction compared to competitive rubber track tractors.

Positive-contact drive and automatic differential locks give full power delivery in all soil and moisture conditions to increase overall productivity in the field. Self-adjusting track tension and clear-cap

sight gauges ensure minimum maintenance requirements.

Case IH expanded the agronomic advantages of the Quadtrac tractor with the introduction of the Steiger Rowtrac models in 2012. With new undercarriage designs including a longer wheelbase, the four [Steiger Rowtrac models](#) use a track that is narrower and longer than Quadtrac models for even lower ground pressures. With track widths as narrow as 16 inches, the Steiger Rowtrac tractors can work in rows as narrow as 20 inches to do post-emerge crop practices such as applying anhydrous, injecting additional nutrients, spraying, and specialty sugar beet crop harvesting.

The Steiger Rowtrac models are especially well suited to handling large row-crop planters and rip-strip minimum-till rigs that demand more horsepower than traditional row-crop tractors.

The newest extension of the Quadtrac concept is the [Magnum Rowtrac tractor](#), offering the compaction and traction benefits of the Quadtrac track technology in two Magnum row-crop tractor models.

Revolutionary in design, the Case IH Quadtrac models continue to set the standard for tracked tractor leadership. The original five-axle design, along with many field-driven enhancements, provides the industry's best combination of power delivery, reduced soil compaction and superior ride quality. As part of the Case IH Steiger tractor family, the Quadtrac models stand on a tradition of uncompromised power and performance. ■

1992

Farm show attendees see a sneak peek of the new Quadtrac concept.



1996

The new Quadtrac tractor is introduced to Case IH dealers at the Denver Summit dealer meeting.



1997

The traveling Steiger Specialty Tour demonstrated Quadtrac tractors to farmers across the nation.

2000

Quadtrac models are included as part of the Steiger STX model introduction. New features include the Surveyor cab with its four-point cab suspension.

2005

An STX500 Quadtrac tractor sets the world plowing record, covering 792 acres in 24 hours, at an average speed of 7.9 mph.

2012

All Steiger models, along with Magnum and Puma tractors, meet Tier 4A emissions requirement using Case IH Efficient Power SCR-only technology.

2013

The Case IH Quadtrac 620 is named "Machine of the Year 2014" in the XXL category at the Agritechnica exhibition in Hanover, Germany.

2016

Quadtrac celebrates 20 years of rubber track tractor leadership.



# The Next Generation of Smart Planting Technology

Simpler, more durable, more accurate

**C**ase IH has introduced a new row-crop planter agronomically designed to perform at higher planting speeds with depth control, in-line spacing and population accuracy maintained at speeds in the 8 to 10 mph range.

The new 2000 series Early Riser planter uses the proven and highly regarded seed-placement capabilities of previous Early Riser planters, matched with a new more robust row unit and new fully integrated electric seed metering and delivery systems from Precision Planting.

"The magic in the Early Riser planter's ability to get early emergence is seed-to-soil contact,"

explains Darian Landolt. "What's enhanced with this new planter is the ability for it to go fast and deliver the seed in a consistent manner."

Landolt is a Case IH research agronomist who served on the validation team for the 2000 series Early Riser planters.

"Our customers will see performance at 8 to 10 mph similar to what they saw at 5 to 6 mph," he says.

These new planters continue with the familiar ground-engaging components of previous Early Riser planters, including the leading-edge offset disk openers that slice through tough residues and hard soils, and the furrow-firming point

that produces the clean v-shaped flat-bottom seed trench.

New features include a more robust row unit that allows an industry-leading 26 inches of toolbar clearance and a 60 percent increase in vertical row-unit travel—up to 16 inches—in order to maintain accurate seed depth and consistent closing at higher speeds.

New larger, inverted closing disks provide gentle and consistent soil coverage back over the seed, with closing-disk downpressure adjustable from the cab.

The planter's bulk-fill system feeds into mini-hoppers on each row unit for simple, easy cleanout. Liquid fertilizer systems are available as factory-installed and use a new centrifugal pump.

## New Technologies With High-Speed Potential

Brad and Brett Woessner were shopping for a new corn planter when their Case IH dealer told them about the new 2000 series Early Risers. "We were looking for bulk fill and the new technologies that we didn't have on our old planter," Brad says.

As they don't trade planters often, the 2000 series planter, being a new design, was appealing, as was having the Precision Planting technologies and the liquid fertilizer integrated, rather than added on.

The Woessners farm 1,600 acres near Shannon, Illinois. They planted this year's corn and soybeans with a 16-row 2150 Early Riser planter with bulk-fill and liquid fertilizer.

Although they planted this year averaging 5.5 mph, they can see the advantages in the 2000 series planter's high-speed potential.

"Ours doesn't have the high-speed option with the SpeedTubes, but we see that as a good option. If we want to, we can add the tubes to plant faster and have the capacity of a 24-row planter," Brad explains.

Their planter is equipped with the optional CleanSweep row cleaners which



Brad Woessner

can be adjusted from the cab for the conditions, using the AFS Pro 700 display.

They say the individual row-unit downpressure control helped produce a better stand. "Our old planter had springs for downpressure. Adjusting this one, on the go, from the cab, is really nice. It stays right where we set it, and when we get in more cloddy conditions or on compacted end rows, we just add a little more pressure," Brad says.

Overall seed spacing was impressive, they say. "Even in soybeans, the spacing was dead-on. It's night and day compared to those brush meters we had before," Brad says.

For years, the Woessners have been making yield maps, and say this planter, through the Pro 700 display, generated as-planted maps compatible with the SMS software they have used for years.

"That was nice, having the two systems work together," Brad says.

He says the overall integration of the planter's systems is helpful. "We saw having things installed at the factory being better, with fewer issues. We plug into the back of the tractor with one plug, and we're done."



Beyond the row unit, the 2000 series planters use new planting technologies from Precision Planting to manage and control seed placement.

"This is the first factory-integration of Precision Planting components into a planter in North America," says Tony McClelland, Case IH planter marketing manager. "These systems are the result of a co-development cycle with Case IH and Precision Planting, with the goal of top accuracy at high speeds."

The vSet2 meter and vDrive electric drive systems offer precise seed metering and curve-compensated spacing, as well as tool-free changes between crops. Together, these systems deliver highly accurate, consistent seed singulation, population and in-row spacing. They can be managed as a single-screen system through the AFS Pro 700 display, or through Precision Planting's FieldView with 20/20 SeedSense.

Growers opting for high-speed planting can choose the [optional Advanced Seed Delivery system](#). It includes the SpeedTube flighted belt seed delivery, which gives positive

✓ The new 2000 series Early Riser planters have a new, more durable row unit and fully integrated electric seed metering and delivery systems from Precision Planting.

## Durability and Better Downpressure

Andy Rice says he was drawn to the 2000 series Early Riser planter by its new more durable row unit.

Rice, who farms near Huntington, Indiana, says his planting conditions range from sandy soils to hard clay, including some stones. These fields can be hard on a planter, and he sees advantages in this planter's simple, more durable design.

"I think it's going to have a lot more longevity for us," he says. "I don't think we're going to see fatigue in the frame or the row units."

Rice planted 3,400 acres of corn this year using two 2150 Early Riser 16-row planters equipped with bulk-fill and liquid fertilizer.

Compared to his previous Early Riser planters, he says these new planters do a better job managing row-unit downpressure.

He says the increased vertical travel of the row unit helped maintain accurate downpressure and seed depth on rolling terrain, and with the row units' greater clearance, trash flow was better when he planted in some standing corn stalks.

The 2000 series planter has a wing down-force control feature, which Rice used. "It distributes the weight of the middle section to the outside wings, so the weight's more evenly distributed across the planter," he says.

Rice writes variable-rate prescriptions for all his fields, with populations ranging from 28,000 to 36,000, managed through the Pro 700 display. The 2000 series planter's capabilities include row-by-row overlap control which he says worked perfectly. "With the cost of seed and chemical, it's well worth it," he says.

Rice planted at 5.5 to 6 mph, about 1 mph faster than before. "We didn't see any sacrifice at all in the seed placement or in the stands. In better conditions, I could see this planter planting faster."

He says there are other features that also stand out, like easier depth adjustment and the in-cab adjustment downpressure on the closing system. "That's a bigger advantage than I thought it would be," he says.



Andy Rice

control of the seed from the meter to the furrow. The speed of the belt changes with the planter's speed. This eliminates seed drop and tumble variability to help ensure optimal

seed spacing at higher ground speeds. Available for corn and soybeans, the SpeedTube can be easily replaced with conventional seed tubes for other crops. ■







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Whether mowing, baling, loading or pulling, Case IH has the equipment you need to keep your operation running. You'll find everything from do-it-all Puma®, reliably flexible Farmall® and simply productive Maxxum® series tractors to balers, windrowers, mower conditioners and more. If there's a job to be done on your operation, there's only one equipment brand you need to turn to. Learn more at your local Case IH dealer or online at [caseih.com/livestock](http://caseih.com/livestock).







# AIM Command FLEX Offers More

Features include higher accuracy, simpler control

**T**he Case IH AIM Command spray system ranks as one of the most significant advances in ensuring effective and efficient application of liquid crop-protection chemicals.

AIM Command pulse width-modulation technology keeps application rate and spray pressure constant as ground speed changes, and gives the ability to manage droplet size to reduce drift and allow spraying in windier conditions.

AIM Command PRO introduced refinements including turn compensation, which manages spray rates

over the length of the boom during turns, and individual nozzle swath overlap control to further reduce skips, overspray and overlaps.

Now, the capabilities of AIM Command and AIM Command PRO are expanded further with the new AIM Command FLEX system.

AIM Command FLEX embodies most of the current features of AIM Command PRO but also offers the additional potential for more precise application, simpler control and more detailed reporting of application records.



AIM Command FLEX operates through the sprayer's rate controller. It can be managed through either the Case IH AFS Pro 700 or Viper 4+ displays, which reduces the number of displays needed in the cab.

"From these displays, you can input or adjust system settings and keep tabs on operations including application rate, spray pressure, boom section status and product tank level," says Mark Burns, application equipment marketing manager for Case IH.

He explains that with all product-application management handled through one display, generating and exporting as-applied maps and reports is a simple process, and these outputs are available in Shapefile formats.

AIM Command FLEX will be the new optional spray-management system for Case IH model year 2017 Patriot sprayers. ■

## 25th Anniversary of Case IH Patriot Sprayers

The popular Patriot sprayers, with their distinctive cab-forward design, were introduced in 1991. Produced at the time by Tyler Manufacturing, the Patriot sprayers, Titan floaters and applicators were purchased by Case IH in 1998.

Today, the Case IH Application Equipment line includes a full line of crop protection and nutrient application equipment favored by individual growers and commercial applicators alike.

[Learn more at CaseIH.com>Products>Application Equipment.](http://CaseIH.com>Products>Application Equipment)





# A Fantastic Transition

Robotic milking and better equipment improve dairying and farming

**A**s young man out of high school, Mark Moreland took his father Bill's advice to further his education and try some jobs off the farm. He worked construction and enrolled in a local college, but says he found himself spending nearly every evening and weekend driving back to the farm.

He soon joined his father to be the third generation to operate Rustowil Farms, near Joyceville, Ontario. Together, they made plans to expand their 80-cow herd and upgrade their old tie-stall barn to embrace new dairy efficiencies.

"We started out by touring new barns," Mark recalls. "We initially were interested in doing a tie-stall show-type barn until we toured a robotic barn. In about five minutes, we decided that was the way to go."

Robot barns, or automated

milking facilities, replace the traditional milking parlors with individual stations that milk one cow at a time using fully automated milkers. No human intervention is needed; the cows enter the milking stations at will. When the milking is completed, gates automatically open, and the next cow enters.

The Morelands' plans culminated with the completion of the robotic barn in October 2015, after about a year in construction. Now, 106 cows are milked with two robot milkers, and they spend their time in a facility that includes the latest advances in cow comfort, feeding efficiency and manure management. The herd is managed, fed and milked with only the labor of Bill and Mark and one full-time employee.

## Better equipment, better service

The Morelands produce all their

own grain and hay, and do some custom planting, baling and harvesting. In 2015, a Case IH salesman introduced himself and encouraged them to demonstrate a Magnum 210 CVT tractor. Mark says they had no experience with Case IH equipment. "I figured, 'why not try it,'" he says.

The power, the cab comfort, and especially the smooth operation of the CVT transmission impressed the Morelands enough that they purchased a [Magnum 220 CVT tractor](#).

That tractor, and the good experience with the Case IH dealer, prompted the Morelands to take a harder look at their equipment. Several pieces were getting older and undersized for their expanding land base. Their large square baler, an important piece for them, had been troublesome, with service support lacking.

"We talked with the salesman about these concerns, and the fact that we were getting bigger and cropping more land," Mark says.

The Case IH dealer offered a package that would upgrade all their equipment with current Case IH models and promised the high level of service the Morelands wanted.

"The rest is history," Mark says. "We ended up with three tractors, a baler, a 12-row planter, a mower, and a combine. We're all Case IH now, and we couldn't be happier, to be honest."

They say each of the new pieces is a step up in performance.







Rustowil Farms  
is near  
Joyceville, Ontario

Their hay-making system includes a 16-foot [DC163 rotary disc mower conditioner](#), which they pull with a 120 PTO horsepower [Maxxum 140 tractor](#), and an [LBX334R large square baler](#) that has the rotor cutter option.



➤ Mark Moreland, left, and his father, Bill, upgraded their dairy to a robot barn, with two robotic milkers for their 106-cow herd. Being freed up from milking, Mark has more time for crop production and his custom-farming services.

After making more than 1,000 bales with the new baler, Mark says he's impressed with its ease of operation and overall reliability.

Crop production plays a key part in the Morelands' overall operation. Their crop production equipment includes a [1245 Early Riser planter](#), a [Patriot sprayer](#) and an [Axial-Flow 5088 combine](#).

They farm about 850 acres of their own ground. They custom-plant another 1,200 acres of corn and soybeans, and custom-bale as much hay as opportunity presents. "This new equipment is making a difference in our custom work. We're getting our own work done faster, and we're able to do better, more timely work for our customers."

With all this expansion and facility upgrade behind them, Mark says he's looking forward to building their dairy herd to even higher levels of quality.

Rustowil Farms already has earned one Master Breeder Shield.

This coveted award is bestowed by Holstein Canada to breeders having the best ratio of breeding cows possessing high production and outstanding conformation, with high proficiency in reproduction, health and longevity.

"Our passion is breeding," Mark says. "I like to focus on type, and

dad's interested in high BCA and milk production." They hope to soon receive their second Shield. "We're very close to achieving that goal," Mark says.

"We're producing milk more efficiently, and we're doing a better job in the field," Mark says. "It's been a fantastic transition." ■



➤ The Morelands' equipment upgrade includes this Magnum 220 CVT tractor with AFS Accuguide autoguidance. Mark says autoguidance is as helpful for baling as it is for planting.



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# Managing Repair Costs

Use Purchased Protection Plans for accurate budgeting, risk management

In an era of tighter margins in agricultural production, managing or eliminating financial risk becomes increasingly important. One area of manageable financial risk is equipment repair costs.

That's why some Case IH dealers report increased interest in extended service plans to help equipment owners project future expenses with greater accuracy.

The [Case IH Purchased Protection Plan](#) allows producers to use these plans as a tool to reduce or eliminate possible significant equipment repair costs. Using such a plan helps equipment owners prepare more accurate operating budgets while managing other fixed expenses.

The concept of the Case IH Purchased Protection Plan is simple. Extending coverage beyond the Manufacturer's Base Warranty period limits the financial risk of unexpected repairs.

Equipment within the Manufacturer's Base Warranty period, or up to 120 days beyond the expiration of the Manufacturer's Base Warranty period, may be eligible for a New Case IH Purchased Protection Plan, while equipment that is outside the Manufacturer's Base Warranty period may be eligible for a Used Case IH Purchased Protection Plan.

The plans can be customized to meet individual needs, with varying options for term length, deductible amount and coverage level. Owners of equipment eligible for new plans can choose from Powertrain, Powertrain Plus or Premier Plan options, while owners of equipment eligible for used plans can select Powertrain Coverage. Plan coverage ranges from basic powertrain components with the Powertrain Plan, to hydraulic and electric systems, chassis and main frame components covered under the Premier Plan.



If equipment is traded or sold prior to the expiration of the Case IH Purchased Protection Plan, the coverage is transferable to the next owner which can add value to the equipment at trade-in or time of sale.

As with other CNH Industrial Capital financial products, payment terms can be tailored to meet individual needs when the Purchased Protection Plan is included on a CNH Industrial Capital equipment finance contract or lease agreement.

All plans require eligible repairs be completed by a Case IH dealer, which ensures repairs are made by authorized service technicians using genuine OEM parts.

With so many variables in farming, it makes sense to take control of as many as possible. Case IH Purchased Protection Plans can help reduce costly and unexpected equipment repairs. ■

## Purchased Protection Plan Options

	FOR NEW EQUIPMENT	FOR USED EQUIPMENT
<b>Eligible equipment:</b>	Equipment currently within the base warranty period or up to 120 days beyond its expiration.	Equipment less than 7 years old and having less than 7,000 hours.
<b>Coverage terms:</b>	Up to 60 months or 5,000 total machine hours, whichever comes first.	Up to 36 months or 3,000 machine hours, whichever comes first.
<b>Available plans:</b>	<ul style="list-style-type: none"> <li>■ Powertrain</li> <li>■ Powertrain Plus</li> <li>■ Premier</li> </ul>	<ul style="list-style-type: none"> <li>■ Powertrain</li> </ul>

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# Autonomous Tractor Steers Toward the Future

Case IH rethinks productivity with new equipment concept



A sleek cabless row-crop tractor, unveiled in late August at the Farm Progress Show in Boone, Iowa, portrays one vision of where current Case IH Advanced Farming Systems (AFS) technologies, including precision farming, autoguidance and telematics, can lead.

Case IH's Autonomous Concept Vehicle, based on a Magnum 370 CVT tractor, has the ability to leave a farm yard, travel on private pre-mapped farm lanes to a field, unfold a planter and begin planting, all without operator intervention. The operator monitors operations through a tablet, a laptop or similar devices.

The vehicle's introduction coincides with the announcement of a new Case IH tag line "Rethink Productivity" and the concept of High-Efficiency Farming.

"This Autonomous Concept Vehicle is an example of how we're rethinking productivity across all aspects of crop production," says Tom Dean, marketing director for Case IH North America. "We're intensifying our focus on combining advanced equipment technologies and agronomic design in the pursuit of High-Efficiency Farming."

High-Efficiency Farming highlights the interrelationship of all aspects of crop production and how maximizing the efficiency of every operation and the potential of every seed can maximize total returns.

The CNH Industrial Innovation Group worked with technology partner, Autonomous Solutions, Inc. (ASI), to develop and integrate radar, LiDAR (light imaging, detection and ranging) and onboard cameras for the tractor's position sensing

◀ Farm show visitors view the one-of-a-kind Case IH Autonomous Concept Vehicle.

and detection of stationary or moving obstacles. ASI is a leader in off-road vehicle autonomous solutions.

As they viewed the concept tractor at the show, producers frequently identified grain cart operations and tillage as two desirable applications, says Leo Bose, Case IH AFS marketing manager.

"They asked: 'Is having a person confined to a tractor cab for hours, running a disk or a field cultivator, the best use of time? Or a person running a planter, when an autonomous vehicle can be more consistent and precise?' That's rethinking productivity," Bose says. "They see how a tractor like this can play a key role in High-Efficiency Farming."

For now, Bose says Case IH is gauging how much interest producers have in adopting this next level of technology.

"This is not a product launch, by any means," he explains. "Rather, it's part of our innovation process, to develop this High-Efficiency Farming concept tractor and invite reactions from producers. We want to know how much interest producers have in these autonomous features. In a sense, we're asking them to rethink productivity."

See the Case IH Autonomous Concept Vehicle in action at [www.CaseIH.com](http://www.CaseIH.com). You can also learn more about High-Efficiency Farming at [www.CaseIH.com/HEF](http://www.CaseIH.com/HEF). ■





# MAKE WAY FOR THE NEW GENERATION

The unique “lift, twist and roll” capability of Case IH Tiger Points aggressively fractures tough compaction. The sturdy alloy-steel construction of the new generation Tiger Point is based on years of in-depth research on tillage and planting agronomics.

Our testing shows the new generation Tiger Point creates less draft than competitive points, which results in reduced fuel consumption. With a fresh, innovative design, the new generation Tiger Point is two times more wear-resistant than previous versions—which means less downtime and more field time.

To learn more, visit [BeRedandReady.com/Tiger](http://BeRedandReady.com/Tiger).





# Quadtrac vs. Four-Track

Quadtrac owners share their impressions of the Deere 9RX



**T**wenty-three years after Case IH showed the first Steiger Quadtrac concept tractor, John Deere introduced its high-horsepower articulated four-track tractors, the 9RX series, in 2015.

Described by Deere as “innovation” and “not imitation,” producers have been curious to find out what the differences might be between the Case IH Steiger Quadtrac and the John Deere 9RX tractors.

Case IH recently invited 10 experienced Quadtrac owners to compare the two tractors. At a site in west-central Minnesota, these farmers received a detailed walk-around of the Steiger Quadtrac 620 and the John Deere 9620RX, both rated at 620 engine horsepower, with the key differences between them highlighted.

Then they were asked to drive at least three rounds in each tractor, pulling a 26-foot Ecolo-Tiger 875 disk ripper and maintaining speeds of 5, 6 and 7 mph. The tractors were

working CRP ground that had not been cropped or tilled in 10 years. The reviewers were asked to evaluate the tractors for factors including ease of service, visibility, ride quality and field performance.

Some differences were immediate and they were readily noted by all, such as the difficulty in raising the hood of the 9620RX to access service points, and the fact that its drawbar isn't visible. On most other points, the reviewers shared similar thoughts.

**The Quadtrac delivers a better ride.** “Both tractors have suspended cabs, so I didn't think there'd be that much difference, but the red one was definitely smoother,” says Jon Bunkers, of Chester, South Dakota.

“The field conditions were rough, dry and rocky,” adds Kevin Olson, from Halstad, Minnesota. “The Quadtrac was a lot smoother riding than the John Deere RX.”



## Driving Exercise

	Steiger			9RX		
	5 MPH	6 MPH	7 MPH	5 MPH	6 MPH	7 MPH
Gal/Hour	18.92	24.43	29.37	19.81	26.12	29.08
Gal/Acre	1.25	1.33	1.39	1.38	1.45	1.46
% Slip	2.0	0.6	0.7	2.3	2.9	3.4
% Power	64.3	75.9	96.1	69.8	87.5	104.4
Acre/Hour	15.9	18.5	22.9	14.4	18.1	21.1

Performance data from each tractor and operator was captured during the driving exercise. This chart shows the combined average of the 10 drivers.



"More of the components were shaking on the Deere, specifically the hood and the fuel tank," comments Vance Zacharias of Kathryn, North Dakota.

**The Quadtrac delivers more power, greater efficiency.** "The 620 was better by at least 2 gallons an hour in every situation I ran it, if not a little more," says Roy Druffel, of Pullman, Washington.

Corey Yake, of Stouffville, Ontario, says, "The Deere was definitely harder on fuel at 5, 6 and 7 mph, from 2 to 4 gallons per hour more at each setting."

"They're both track tractors, but the Quadtrac handled the load better. It was surprising to me," recalls Fred Lukens, from Aneta, North Dakota. "On the Deere, I sometimes saw the slip go up to 5 percent; it was generally around 2 percent. The Quadtrac was mostly at zero."

Nicholas Strom, of Groton, South Dakota, says, "It was clear that the Case had the power there, waiting. There was boost to keep your speed. When the Deere pulled down, I lost speed."

"The Case used less power, probably 2 to 5 percent less whether it was 5, 6 or 7 mph, and it never went above 100 percent of power used. I was impressed with the power of the Case Quadtrac," Zacharias says.

**Quadtrac controls are simpler.** "The transmission controls on the Quadtrac are more intuitive, more natural," Lukens says.

"The John Deere has two screens, one for machine status and one for GPS. Case has one, the Pro 700. I like the one-screen set-up because everything's accessible," Zacharias adds.

Jon Bunkers, of Kathryn, South Dakota, says: "I'm scratching my head about having two monitors in the Deere instead of one. I've been around the Pro 700 quite a bit and love the adjustability of it."

**The Quadtrac turns tighter.** "The Quadtrac was much more maneuverable, making the turns and getting back on track was a lot

## Tractor Rating

	Steiger 620	9620RX
Ride Quality	9.30	5.50
Ease of Control	9.00	5.80
360 Visibility	9.30	5.60
In-Cab Noise	9.00	7.10
Ease of Cab Entry/Exit	8.90	4.80
Serviceability	8.40	5.20
Overall Experience	9.20	5.60

Drivers ranked their opinions of the tractors after the walk-around and driving exercises. Ratings range from 1, extremely dissatisfied, to 10, extremely satisfied.

easier," comments Kurt Druffel of Pullman, Washington.

"The turning radius for the red tractor is a lot better than the green one," Bunkers adds. "I expected the green one to turn a lot shorter than it did."

**Overall visibility is better in the Quadtrac.** "Visibility, in general, is better with the Case," Strom says. "In any direction, it's easier to see the ground. The hood isn't as high, and you don't have the fender flares that Deere has."

"I thoroughly enjoyed the Case's view in comparison to the John Deere; there were a lot of blind spots in front of the hood and to

the sides," Zacharias says.

"The visibility on the Quadtrac was superior," Lukens adds. "And, I'm a big guy, and I had a lot more room in the Quadtrac cab."

**The Quadtrac proves its track leadership.** "I was looking for something to be 'wow'd' about, and over the whole demonstration, I was really surprised I didn't find something significantly better," Kurt Druffel comments. "We'll continue to run Steiger Quadtracs. It's the tried and true product, and I think it will continue to be."

"It's obvious when you start looking at the details, but Case IH has had time to perfect what they are doing," Lukens says. "It seems that John Deere is just getting started and it has a lot of improvements to make in order to catch up to our Case IH Quadtrac."



**Learn more about these producers' comparisons at [CaseIH.com/different](http://CaseIH.com/different).**



# A New High-Efficiency Field Cultivator



## The Tiger-Mate 255 meets new agronomic demands

**T**he ideal seedbed allows good seed-to-soil contact; provides ample nutrients, air and water; enables good root development; and is free of competing plants. There's a range of tillage tools and practices to reach that goal. For many producers, the basic field cultivator continues to be the final step ahead of the planter.

This tool's ability to stir the soil, mix any fertilizers and chemicals, and create ample soil pore space for sufficient air and water movement is a desirable combination.

Recognizing the key role the field cultivator continues to play in crop production, Case IH has introduced the Tiger-Mate 255 field cultivators.

"There's been a lot of attention on planter efficiency ... faster planter, higher speeds, higher accuracy,

better stands," says Chris Lursen, Case IH tillage marketing manager. "It takes a superior seedbed to realize the planter's full potential."

Lursen says Case IH developed these new field cultivators to be industry-leading for seedbed preparation, productivity and durability.

### A high-efficiency seedbed

The cultivators use split-the-middle sweep patterns and a new wider 6.5-inch shank spacing for 100 percent sweep coverage, maximum mixing of soils and improved residue flow at higher speeds. The wider shank spacing also allows for the use of larger radial tire packages without sacrificing shank placement.

"A swept-back high-concavity shank design helps the soil ramp up

and 'explode' higher on the shank to mix particles, break down clods and provide constant residue movement," Lursen says.

Set on a five-bar frame, the first three rows of shanks take a full cut through the soil; the last two rows take a smaller cut, removing the middle spaces for complete coverage and mixing.

Standard sweeps are 7.5 inches; 9-inch sweeps are optional. Choose from Maxxi-Point, Maxxi-Grip or new Maxxi-Point Plus sweeps, all made from durable Earth Metal and designed to maintain full cutting width as they wear.

### Maximum productivity

The new shank assembly has 20 percent more holding power than



the previous model. “The Tiger-Mate shank keeps the sweeps parallel to the ground to maintain a flat sub-floor finish and a smooth surface finish at higher ground speeds and in variable soil conditions,” Lursen explains. “You can be more productive with no loss in seedbed quality.”

The new Tiger-Mate 255 is capable of ground speeds from 5.5 to 10 mph to keep pace with new high-speed planting systems.

“In the past, keeping ahead of the planter wasn’t much of an issue, as it was only traveling 5 to 6 mph,” Lursen says. “Now that we have planters reaching speeds up to 10 mph, we saw the need for a faster seedbed-preparation system.”

During the Tiger-Mate 255’s testing and evaluation, Lursen says they found the seedbed surface is often more consistent, with smaller clods, with the implement running at 10 mph and using an Advanced

## Use Levelers and Conditioners to Size, Level and Firm

Match the Tiger-Mate 255 with options to add the finishing touch to seedbed preparation.

Add a rear frame-mounted Advanced Leveling System or the four-bar Tiger-Tine harrow to level the soil surface, evenly distribute residues and break clods.

Use the mounted Advanced Conditioning System (ACS) two-bar Tiger-Tine with a round-bar Cumbler to crush clods and firm fine particles. The ACS three-bar spiketooth with Tiger-Paw Cumbler uses three ranks of spiked teeth to bust tough clods. Then the Tiger-Paw Cumbler sizes clods and stratifies soil particles for maximum seed-to-soil contact.



Conditioning System rear attachment. “Speed is certainly our friend when conditions allow,” he says.

A new single-point hydraulic depth control allows quick and easy adjustments, and the field cultivator can be leveled more easily with wing turnbuckles that require no tools. A new front hitch allows sharper turns.

Other new features include wing wheel retraction on the double-fold

models which reduces transport width by nearly a foot, a floating hitch option and new optional stubble-resistant IF radial tires.

“This new tire design has a bigger footprint for reduced compaction and is more durable,” Lursen says. “Throughout, we’ve made improvements to make these field cultivators an important link in a high-efficiency, agronomically superior planting and seedbed system.” ■

## Case IH Offers Solutions for Every Soil-Management Situation



**SITUATION:** Extremely heavy residues and the toughest soil conditions

**SOLUTION:** Heavy offset disk harrows deliver aggressive residue management and soil mixing. Model 790 offset disk harrows are offered with several blade size and spacing choices in widths from 11 to 27 feet.



**SITUATION:** Heavy residues from tough, high-yielding crops; uneven field surfaces.

**SOLUTION:** True-Tandem disk harrows, Models 345 and 375, slice tough residues, uproot root balls, mix and level. Single-point depth control maintains blade depth. Choose widths from 18 to 47 feet; add a mounted hydraulically controlled Tiger-Paw Cumbler for added leveling and clod sizing.



**SITUATION:** Heavy residues, tight soils, likely hardpan, high-yield potential.

**SOLUTION:** Ecolo-Tiger disk rippers cut, size and mix crop residues. Patented Tiger Points shatter compaction and lift, twist and roll soil particles for maximum soil tilth.

Choose from four Ecolo-Tiger 875 models with working widths from 14 to 26 feet to leave an unmatched finish.



**SITUATION:** Tough, heavy residues; need aggressive mixing and incorporation.

**SOLUTION:** The Case IH True-Tandem 335VT and the more aggressive 335 Barracuda vertical tillage tools size, mix and level residues and soils at higher speeds for greater productivity. The 335VT is offered in widths from 22 to 47 feet; the 335 Barracuda is offered in sizes from 22 to 34 feet.



**SITUATION:** Tight soils and compaction issues.

**SOLUTION:** Case IH Eco-Till 2500 in-line rippers shatter compaction for deeper root growth. Shanks are spaced at 30, 36, 38 or 40 inches and offered in a variety of shank styles and point options. From conventional to no-till, 2500 series rippers offer a solution for all compaction situations.

**Vertical tillage or disk? Case IH has five charts to help you choose. See them at [caseih.com](http://caseih.com) > Products > Tillage > True-Tandem Choices.**



# Beating the Blooms

These Ohio producers help identify ag's role in Lake Erie water-quality issues

**"I**t's pretty scary to farm in a watershed that's in the cross-hairs of various environmental interests," says Terry McClure.

That's the situation he and other farmers in northwestern Ohio faced several years ago as massive algae blooms in Lake Erie had regulators looking hard at agriculture and potential nutrient-rich runoff as a contributor to the problem.

"Ag's an easy target," says McClure of Grover Hill. "And some of the proposed solutions we saw weren't based on an accurate, researched understanding of agriculture's role."

McClure and other individuals, organizations and agribusinesses in the region decided it was better to help ag become part of the solution rather than the problem. Together they raised \$1.2 million and received a matching government grant to help analyze farm field-water runoff.

Through this funding, the United States Department of Agriculture, the Agriculture Research Service and Ohio State University are collaborating to operate 32 water-sampling sites in the western Lake Erie basin, including two sites on the McClures' farms. The sites measure rainfall and pull water samples from surface and tile drainage at regular intervals 24/7/365.

"We're trying to understand what nutrients are leaving the field

◀ Ryan, Darwin and Terry McClure. Long-time users of four-wheel drive tractors, two Case IH Steiger Rowtrac tractors, a 400 and a 470, are their first on tracks. With them, the McClures see reduced compaction and the ability to use these tractors for planting and sidedressing.



The McClures farm  
near Grover Hill, Ohio.



under different scenarios,” McClure says. “We want any regulations to be based on science and a true understanding of what’s happening.”

Four years into the project, McClure says the researchers are just beginning what will be a long-term study. Already, he says it’s clear that adhering to the “4Rs” of nutrient management (right source, right rate, right time and right place) helps cut nutrient loss.

For their part, McClure says they’re planting cover crops behind wheat, applying nutrients in several smaller applications throughout the growing season, rather than all at once, and other steps.

The McClures, which includes Terry, his father, Darwin, and son, Ryan—farm about 4,000 acres of corn, wheat and soybeans and contract-feed approximately 18,000 hogs a year. Each year they adopt new crop-production practices as they learn more about soil health and managing nutrients.

One unique challenge is their heavy clay soils that in ancient times formed the bed of a much larger Lake Erie. “We’ve been no-till farming since the late 1980s, but it’s hard to be a pure no-tiller on this heavy clay,” Terry says.

A key tillage step is deep ripping wheat ground after baling straw. The wheat ground, planted for its value as a rotation and for receiving liquid hog manure, injected annually, comprises about 300 acres. So, all their fields get deep-ripped once every 10 years or so.

As they reduce tillage operations overall, they’re making more use of a [Case IH True-Tandem 330 Turbo](#) vertical tillage tool after corn.



▲ This water-sampling station pulls samples of field surface runoff and tile water (inset). The McClures have two of these stations on their property as part of a long-term study of ag’s role in Lake Erie water quality. [Watch the video.](#)

“We’ll run the 330 as lightly as we can, just enough to break that root out and get a little bit of soil up. Then we’ll plant directly into that in

the spring. That 330’s a nice fall tool,” he says.

In another move to reduce compaction, the McClures are running two [Case IH Steiger Rowtrac tractors](#). Longtime users of four-wheel drive tractors, these Rowtracs are their first tractors on tracks.

“We were looking for more flotation,” Ryan explains. One benefit they see is the absence of the “pinch rows” in corn, stunted by the compaction of the tractor tires. “Even though the tracks look like they’re sinking into the soil, there’s not that ‘digging’ action we see with tires on the front-wheel-assist tractors.”

Ryan says the Rowtrac tractors on 18-inch tracks and equipped with AFS AccuGuide RTK autoguidance excel at sidedressing with 15-row applicators. “The tractors are very stable, sitting on those tracks. The applicator doesn’t move the tractor

at all. And with RTK, they perfectly follow the curves.

“These Rowtracs are more flexible,” Ryan adds. “We also use them for planting, tillage and pulling the tile plow.”

Adding and improving tile is an on-going project for the McClures. They say laying tile 2 feet deep on 33-foot spacings definitely makes their ground more productive and doing it using their own equipment makes for a faster payback.

The changes in crop production practices the McClures have made are helping them be more productive and be better stewards of the land. Making more efficient use of nutrients, both through fertilizers and manure, is critical, which is why they are participating in the water-runoff studies.

“We want any soil-management regulations to be based on solid research,” Terry says. “So far, Ohio has managed to have good conversations about water quality, with groups working together. That’s what we need to do to preserve our farms and continue to raise crops and livestock.” ■





# HARVEST MORE OF WHAT YOU GROW.

No matter the crop, acreage or field condition, Case IH Axial-Flow® combines are ready to optimize your yield. From header to spreader, our industry-leading innovations are designed to put more high quality grain in the tank and more profits in your pocket. With Axial-Flow combines, you get the capacity you need with easy adjustment options to match your crop and field conditions, all while all while saving more grain! Be ready to take control of your harvest. Keep your profits off the ground and in your tank. See your local Case IH dealer or visit [caseih.com](http://caseih.com).



# Residue Management

It starts with the combine

**T**here's no question that the combine's job is to put every possible grain or kernel in the tank, clean and whole.

The combine also plays a role in whatever your next step might be for that field, ranging from baling straw immediately to no-till planting six months later.

Cy Werda, a Case IH combine performance specialist, says that the total potential for your return on next year's growing season starts with how effectively you harvest the current crop and how you manage the residue.

His conversation starts with the header. Reducing header loss is obvious for maximum yield, but also for reducing the potential for dealing with volunteer crops the following year. For small grains and soybeans, Werda says draper heads have multiple benefits.

Draper heads increase your productivity by enabling you to run 1 to 2 mph faster, compared to an auger head, and they can run earlier

in the morning and later at night. "The draper head is less susceptible to damp conditions; it gives you a wider operating range throughout the day," Werda explains.

Draper heads reduce header loss by 50 percent or more and orient the crop for consistent head-first feeding. "The crop is laid down flat, head-first, and enters the combine in a perfect orientation. It maximizes the effectiveness of the rotary combine," he says.

In small grains such as wheat, run the header high enough to get all the grain and reduce excess straw going through the machine. This also leaves ample straw standing to help retain moisture in the soil.

In corn, there's a benefit to having as much stalk as possible go through the stalk rolls.

Because corn stalks are so robust, Werda says the crushing action of the stalk rolls opens the stalks for faster decay and decomposition into the soil. Chopping corn heads provide the option of

processing the stalks as you're harvesting, possibly eliminating a separate field operation to chop them.

While the heads play an initial role in residue management, most of the residue-management options are at the back of the combine.

Werda encourages you to visualize what you want the residue and

**“Draper heads reduce header loss by 50 percent or more.**

soil conditions to be the next time you enter the field.

"In more arid regions, you might value more soil moisture at planting time. Then you'll want heavier residues on the soil surface that will stay in place over winter and hold moisture. Or, if you're coming back with no-till planting, you might want the residues to be more finely chopped so they're easier to plant through," he says.

The important point, Werda says, is to recognize that combines offer multiple residue-management options, and to use them. During operation, he suggests paying as much attention to how the crop material is leaving the combine as you do to managing the grain in the tank. ■





# A World View

New Case IH video series shows farmers around the globe meeting common challenges in a world of different conditions

**F**armers around the world face a broad range of challenges from soils, weather and local infrastructures. But they share a common goal of striving to produce more food, fiber and fuel, more efficiently.

The new “Out in the Field” video series developed by Case IH provides unique snapshots into the lives and farming operations of producers in eight countries.

To produce the series, film crews traveled to Australia, Brazil, China, France, Germany, Romania, the United States and Zimbabwe.

Each video provides insight into how dramatically farming differs around the world. In Brazil’s Mato Grosso region, Joci Piccini established a new farm. He and nearby producers use the newest and largest Case IH planters and AFS technology to cover massive acreages quickly and efficiently.

In Germany’s Danube Valley, land that has been farmed for hundreds of years is being precisely managed, thanks to a nationwide RTK network created by Case IH. With repeatable sub-inch accuracy, farmers Herman Kästle and Reile Dietmar are among the many producers setting up fields and equipment with Case IH AFS systems to maintain the same tram lines year after year.

In neighboring France, a multi-generation farm family in the Jura Massif region uses equipment from Case IH to make up to 400 round bales a day in the face of fickle weather conditions. The result is high-quality hay, the vital feed for their dairy herd whose fresh raw milk is used to produce the region’s Comté cheese.

Producers in Romania work with soils that have become tight and

compacted over the years. Case IH territory manager George Stanson helps wheat grower Marian Budu use new equipment, including Quadtrac tractors, Ecolo-Tiger rippers and True-Tandem vertical tillage tools, to improve soil tilth and wheat yields.

## A common bond

Separated by over 8,000 miles and a world of cultural differences, producers in China and the United States share the common bond of harvesting crops in the face of uncooperative weather. In China’s Hantian region, farmers Yong Jun Ding and Yu Long Li use Case IH Axial-Flow combines to harvest corn at higher moistures without damaging kernels. “I produce high-quality crops for my country,” Jun Ding says. “That is what makes me happiest and proudest about my work.”



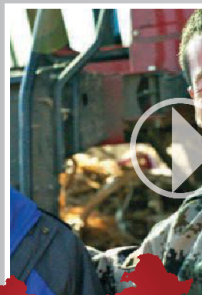
Australia



France



Brazil





# of Ag

In the United States' upper Midwest, Minnesota producer Frans Rosenquist has equipped his farming operation to quickly harvest several thousand acres of soybeans when the weather allows.

An airplane provides the easiest way to reach Chisumbanje in southeastern Zimbabwe. Here, a large sugarcane operation has been established with the dual mission of providing ethanol for fuel for the country, which lacks its own oil resources, and generating electricity for the nation's power grid. Case IH Austoft cane harvesters have greatly increased productivity compared to the traditional hand-cutting method of harvesting.

In Australia, farmer Ryan Milgate produces wheat, barley, fava beans and field peas. Heavy summer rains spur rapid weed growth. He depends on a Case IH 4430 Patriot sprayer to spray his crops multiple times during the growing season.

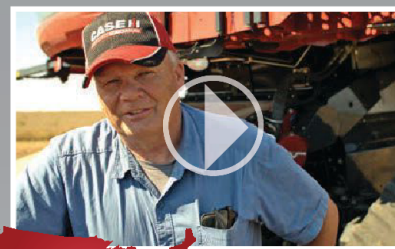
"Over a year I'll spray between 45,000 and 55,000 hectares (111,200 to

135,900 acres), which is about 1,500 hours. It's a few days in the saddle," he says. AFS technology, including AIM Command spray management, greatly increases his productivity.

Case IH Brand President Andreas Klauser says the company produced this web series to show how these farmers are able to overcome a wide range of challenges to provide a steady supply of food to consumers across the globe.

"Despite all the differences in farm size, crops and culture, one thing was the same for all these producers: the pride they take in their daily work and feeding the world," Klauser says. "This pride is hard earned. They have so many factors to juggle to bring food to the table and they do this in a very reliable way. As Case IH, we are honored these farmers are all using our equipment in this noble undertaking."

View the newest "Out in the Field" videos, as well as previous segments, on the Case IH YouTube channel. ■



United States



Romania



Zimbabwe



China



Germany







# Easy Access

Case IH provides new ways to get parts

**T**ime was, the only way to get a farm equipment part was to hop in the pickup and head to the dealer.

Things have changed. Now dealers can be more distant, and a producer's expectations for getting a part range from tapping a smartphone, to reaching into a dealer-stocked on-farm parts cabinet, to, yes, driving to the dealer and stepping up to the parts counter.

"At CNH Industrial Parts and Service, we want to have avenues ready to serve producers in whatever manner they want to be served," says Kurt Coffey, vice president, CNH Industrial Parts & Service.

With the pace of technology, that's a moving target. "We're looking ahead, five, 10 years," Coffey says. "What's favored today for interacting with your dealer might be replaced by new more efficient practices. Our goal is to assess all options and adopt what's best, and most favored, by producers."

Coffey says his experiences have helped him understand the critical role of parts availability and knowledgeable people supporting them.

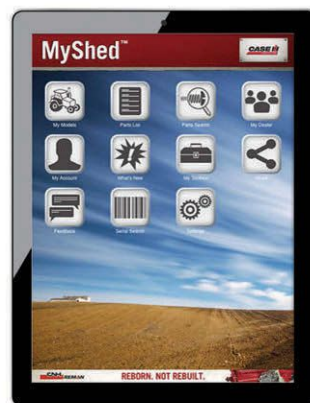
"I grew up on a farm, and we didn't have the latest equipment. I know what it's like to go to a dealership to get a part for a machine that's down. I know how important that is," he says.

## Multiple points of value-added access

Case IH leads the industry in introducing new ways to access parts. Case IH PartStore website gives options to find parts by machine serial number, equipment model or parts category at <http://partstore.caseih.com>.

It includes all relevant details about the part, including schematics. You can determine if the part's in stock at your selected dealership, and confirm delivery or pickup details. The site also features all current promotions and special offers.

The popular Case IH "My Shed" app makes the PartStore website easily available on your smartphone or



tablet. Indeed, having detailed schematics in hand as you make a repair, or describe a repair situation to your dealer, can be invaluable.

The Case IH ReadyStock program puts the participating dealer's parts counter directly on your farm. The program includes the sturdy red metal cabinet which your Case IH dealer will keep stocked with maintenance and repair components tailored to your equipment and the season of use.

In the not-too-distant future, telematics will play a key role in servicing and maintaining equipment. Already, the Case IH AFS Connect 2.0 gives basic engine operating and diagnostic information from diesel-powered equipment using the standard ISO J1939 CAN protocol. On certain Case IH current-model equipment, including Steiger, Magnum and Puma tractors, Patriot sprayers and Axial-Flow combines, AFS Connect 2.0 provides up to 74 data points for operation and status.

Producers can allow their dealers to access this information to help identify fault codes, for example, in order to make more efficient repairs.

"It won't be long before a tractor or combine can 'order' a set of filters when they're needed and have them delivered to the producer's ReadyStock locker, if that's what the producer wants," Coffey explains.

"In the future, there will be more options to manage equipment maintenance," he says. "Our goal is to keep what's most important at the forefront: uptime and knowledgeable value-added people ready to respond when you need help." ■





# ShopCaseIH.com

New items and seasonal promotions are continually added to the site. So sign up to receive special offers and promotions and check back often! Use the promo code **FREECIH40** to get a **free tote** with purchase of \$40 or more.\*



\*Use code FREECIH40 at checkout. Not valid on previous purchases, drop ship items, and sale and clearance merchandise. Offer expires Oct. 31, 2016 at 11:59 PM EDT.  
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# 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.

**Compact Farmall C series tractors** have the size, power and operator convenience for a wide range of farmstead chores including mowing, snowplowing, grading and material handling. A large operator area with a platform deck, suspended pedals and a comfortable swivel seat provides a productive working environment. The cab, available on the three larger models, can be accessed from both sides and includes heat and air conditioning for year-round comfort.

Choose from mechanical or hydrostatic transmissions; four-wheel drive is standard on all models. The standard three-point hitch has a rated lift capacity of 2,756 pounds. The fully independent PTO features smooth electro-hydraulic engagement.

The series includes the Farmall 30C and Farmall 35C at 26 and 29 PTO horsepower from 3-cylinder 1.5-liter turbocharged engines, and the Farmall 40 and 50C at 32 and 37 PTO horsepower from 2.2-liter engines. All can be equipped with Case IH L series loaders.



**AFS Connect** uses advanced telematics technology to present real-time dashboard access to any late-model diesel-powered farm equipment and trucks with engine communications systems with standard ISO J1939 CAN protocol.

Through your desktop, laptop or mobile device, AFS Connect provides a clear display of various machine health parameters that include such things as engine speed, hydraulics, oil temperature, fuel level, location, operating status and more. Additional detailed information and reports are available when AFS Connect is used with current model Case IH Puma, Magnum and Steiger tractors and Axial-Flow combines.

Live Time viewing and two-way messaging can help with operator training; use AFS Connect Data Sharing for cloud-based wireless transfer of AFS data such as yield maps, prescriptions and guidance lines.

**The True-Tandem 335 Barracuda** vertical tillage tool is designed to work on a wide range of soils to break down heavy stubble and stalks. Capable of cutting up to 4 inches deep, the new 22-inch Earth Metal blades penetrate hard, dry soils and break through surface compaction layers to promote soil movement and uniform density.

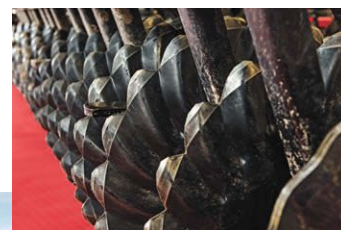
New chisel-tipped serrations allow the blades to retain sharpness and durability, even under tough field conditions. As the chisel-tipped teeth wear, the valley between each tip stays sharp, retaining the cutting edge and extending the blade's life.

The 18-degree gang angle matches each blade's shallow concavity to provide thorough soil mixing without causing backside blade compaction. Front and rear gangs and blades are properly indexed to one another to provide an even surface finish and a more even subsurface floor.

The 335 Barracuda includes the hydraulically adjustable TigerPaw Crawler rolling reel, which helps produce more uniform

clod sizing, soil particle stratification and residue distribution.

Capable of running at 6 to 9 mph, the 335 Barracuda is offered in working widths from 22 to 34 feet. The Barracuda blades can be retrofitted to either the Case IH True-Tandem 330 Turbo or 335VT models.





**Case IH Magnum tractors** provide industry-leading row-crop tractor performance. Choose from nine models from with engine horsepower ratings from 180 to 380; PTO horsepower ratings from 155 to 315 with up to 14 percent power growth. Mid-range Magnum models have 6.7-liter engines, 8.7-liter engines power the higher horsepower models. All are Tier 4B compliant using the simple and efficient Case IH SCR-only emissions technology.

Transmission choices include a 19-speed powershift or a Continuously Variable Transmission available for all models. Use the Diesel Saver APM to automatically select the most efficient combination of engine speed and drivetrain for fuel savings up to 25 percent.

The Magnum tractor Surveyor cabs include four-way cab suspension for a comfortable ride; the optional suspended front axle improves traction and ride quality on rough terrain. All Magnum models are autoguidance-ready for all levels of accuracy using the Case IH AFS AccuGuide system and the AFS Pro 700 display.

Choose a Magnum Rowtrac model to gain superior traction with reduced compaction. Available as Magnum 310, 340 and 380 models, Magnum Rowtrac tractors provide the performance of tracks with the maneuverability and handling of a row-crop tractor.



**Axial-Flow combines** are offered in two models to meet all producers' preferences and conditions. The Axial-Flow 140 series are the legacy machines, providing the familiar, proven Axial-Flow rotary threshing system and belt-drive rotor.

Redesigned for 2016, the 140 series features an electric shift two-speed ground drive transmission and new lightweight and more accessible concaves for easier adjustments for different crops.

An enhanced CrossFlow cleaning system handles greater capacity at higher speeds. It automatically detects when the combine is maneuvering on uneven terrain; side-hill compensation reduces grain loss and boosts productivity by

up to 20 percent. The system also features a six-auger bed system designed to increase cleaning capacity by up to 5,000 bushels per hour.

Choose from the Class V Axial-Flow 5140 at 265 horsepower, the Class VI 6140 at 348 horsepower and the Class VII 7140 at 375 horsepower.

The Axial-Flow 240 series flagship models feature the exclusive Power Plus CVT drive system. This patented all-gear design uses separate dedicated drives for the rotor and the feeder, eliminating most belts and chains. Features include rotor de-slug, header-to-grounds speed syncing and automatic variable feeder speed control for efficient crop flow.

The Axial-Flow 240 series models include the Class VII 7240 at 402 horsepower, the Class VIII 8240 at 480 horsepower and the Class IX 9240 at 550 horsepower.

Match Axial-Flow combines with various Case IH grain and corn heads. Grain heads include rigid, flex, pickup heads plus rigid and flex draper heads. Flex heads feature the TerraFlex cutterbar flotation system having a 6-inch flex range.

Corn heads include 6-, 8-, 12- and 16-row models. Choose optional chopping models for tough stalks. The 4408F and 4412F 8-row and 12-row folding heads boost productivity, letting you travel from field to field with the head in place.





## A Baler That Manages the Tractor

New technology is leading to more efficient hay production. The Case IH Optum series tractors and 2016 model year LB4 series large square balers both feature ISOBUS Class 3 functionality, which allows higher levels of tractor and implement communication.

Working together, this tractor and baler combination produces better bales with less operator input.

Using the baler's Feedrate Control, the operator can choose Charge Control, which continually senses the material load in the chamber and automatically adjusts the tractor's ground speed to reach optimal capacity. Ton per-hour throughput can be increased by up to 9 percent.

Another Feedrate Control option, Slice

Control, automatically adjusts the tractor's ground speed based on bale slice thickness. With it, the operator can predetermine the number of slices per bale to produce consistent, identical bales.



## Case IH Shows Technology in New Ag Exhibit



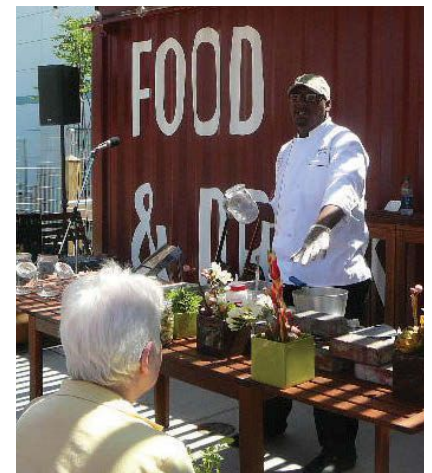
A lineup of Case IH equipment is part of an exciting new permanent exhibit at the St. Louis Science Center that teaches visitors how food goes from the farm to the fork. Called GROW, the \$7.3 million educational exhibit highlights agriculture and food production through 40 interactive exhibits, demonstrations and events.

The 1-acre indoor/outdoor exhibit provides insight into plant and animal production including displays on botany, technology, water and fermentation. "This exhibit helps connect people to the science behind all of the important elements in producing the food we eat and the challenges we face in sustaining our food supply," says Bert Vescolani, Saint Louis Science Center president and CEO.

A Case IH Axial-Flow 5140 combine with a folding corn head and tractors, including a Puma 185, a Farmall 75C with a loader and a Farmall 50C compact tractor, depict the type of efficient and productive equipment available to farmers. Case IH video boards show the roles the equipment plays in food production. The exhibit also includes a Case IH Scout UTV and Case IH pedal tractors.

Opened in June, GROW is the newest addition to the popular Saint Louis Science Center. The center features more than 700 hands-on exhibits spanning the broad spectrum of science. It serves more than 1 million visitors each year and is ranked as the fourth-largest science center in the United States.

Learn more about the GROW exhibit experience at [slscgrow.squarespace.com](http://slscgrow.squarespace.com).





# Total Red Immersion

Every summer, enthusiasts of old farm equipment have plenty of fairs, shows and parades to choose from.

For International Harvester fans, Red Power Round Ups provide possibly the best presentation of International Harvester equipment and memorabilia.

Held annually, Red Power Round Ups are the national show presented by the International Harvester Collectors Club. Individual state chapters petition the national organization to host the event. This year's event, hosted by the Wisconsin chapter, held special significance as it took place at the Racine County Wisconsin fairgrounds, near the headquarters of Case IH in Racine and the Racine Magnum tractor assembly plant.

The mid-June, 27th annual event included optional tours of the Magnum tractor assembly plant and the CNH Technology Center in Burr Ridge, Illinois, hosted by Case IH.

During the Round Up, a 1936 Farmall F-12 tractor was totally restored and on display at the Burr Ridge technology center. The center, which is responsible for designing and testing new CNH agricultural products, is designated an Historic Landmark by the American Society of Agricultural and Biological Engineers. It's the site of the development of the first successful row-crop tractor, the Farmall, introduced in 1924.

The 2017 Red Power Round Up will be held in Des Moines, Iowa; the 2018 event is planned for Montgomery, Alabama. Learn more about the International Harvester Collectors Club at [nationalihcollectors.com](http://nationalihcollectors.com).



Members of the International Harvester Collectors Club totally restored this 1936 Farmall tractor during the 2016 Red Power Round Up. It will be displayed at the CNH Technology Center in Burr Ridge, Illinois, also known as "the birthplace of the Farmall."







## 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](http://caseih.com/Seedbed).



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