FALL 2019

CANADIAN FARMING

CASE IH AGRICULTURE

Tillage Control Technology

Optimize tillage tools on-the-go

Page 10

Combine Storage

Put it away clean and ready

Page 24

ALL POSITION PLAYERS

Maxxum series tractors handle many tasks Page 4

FIRST OWNER REPORT

Faster and Better

Page 12

OWNER PROFILE

Investing in Productivity

Page 16

IT'D BE EASIER TO LIST WHAT IT CAN'T DO.

Is there a job that a Maxxum® tractor can't handle? Good luck finding one. These versatile workhorses move from fieldwork to daily chores with ease — thanks to features like the advanced loader joystick. Now you can shift all 24 gears without taking your hand off the joystick. To take productivity to the next level, visit **caseih.com/activedrive**.

CASE IH
AGRICULTURE
RETHINK PRODUCTIVITY

CONTENTS

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

CANADIAN FARMING COMMENT

High-Efficiency Farming is Key

Every year poses new challenges for agriculture, and clearly 2019 is no exception. The combination of delayed and wet planting in many areas, coupled with trade turmoil, created unprecedented conditions for many producers. Some say expecting the unexpected may become the new normal for agriculture. Seems to me it's just another day at the office for the North American farmer: the most resilient and resourceful people I know.

At Case IH, we see Agronomic Design and High-Efficiency Farming as critical elements to helping you succeed in this ever-changing environment. This year, the benefits of the Magnum Rowtrac and Steiger Quadtrac tractors' exclusive track designs were on full display. Many of you relied on this equipment to get into the fields earlier and with less compaction. Additionally, the 2000 series Early Riser planters proved their high-speed planting capabilities and made the most of short planting windows.

These innovations work because they are producer-driven, designed and developed. We listen to you —our customers — throughout North America to develop features and performance that help you be more efficient. Around here, we call this "Built by Farmers."

There will surely be more challenges ahead and we know you have the passion, the courage, the know-how and experience to meet them head on. Case IH and your local dealer will be there with the equipment, technology and support to ensure that you fully realize the High-Efficiency Farming advantage.

Scott Harris
Vice President,
Case IH North America

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.

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All Position **Players**

Maxxum series tractors handle many tasks

The more tasks in which you can use a piece of equipment, the better the investment. Case IH Maxxum series tractors have the potential to be the busiest tractors on the farm.

Maxxum tractors sit in that size and horsepower range that lets them handle a wide range of "small tractor" and "big tractor" work. A productive new transmission, called ActiveDrive 8, expands their versatility.

They include five models from 116 to 145 engine horsepower at 2,200 rpm with 95 to 125 PTO horsepower at 2,100 rpm. They sit on a 104-inch wheelbase and have base weights from 10,825 to 12,831 pounds, depending on the model. Four models have four-cylinder 4.5-liter engines; the Maxxum 150 has a six-cylinder 6.7-liter engine.

This combination of weight, power and efficiency makes them well-suited for light-duty work including mowing and farmstead chores as well as field activities including tillage and planting. Mechanical front-wheel drive is standard on all models and a 2WD version is available on the ActiveDrive 4 models.

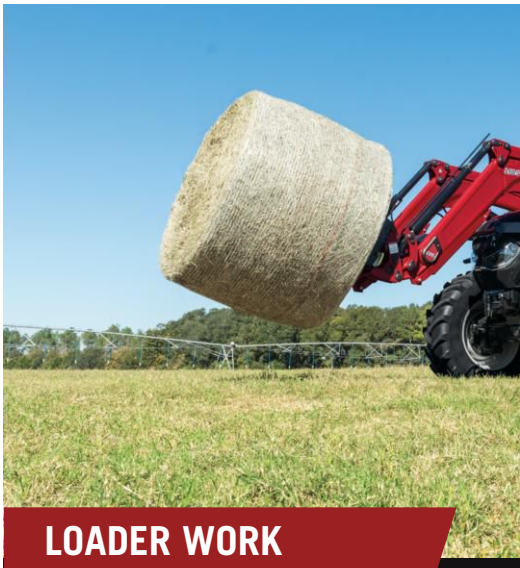
Transmission options further define Maxxum tractor applications. The ActiveDrive 4 transmission, with four power shift gears in each of four ranges, is combined with

HAY OPERATIONS

Maxxum tractors excel in hay operations. Choose 2WD or MFD models to best meet your field conditions.

All three transmissions are well suited for hay work. Chose the ActiveDrive 8 with its ActiveClutch II feature to bring the tractor to a stop using the brake pedals only, no need to use the clutch pedal. Then release the brakes to resume speed. It's a great productivity aid for making round bales.

Maintain constant ground speeds by using the new Automatic Productivity Management (APM) system. It works with the engine and the ActiveDrive 8 transmission to hold ground speed under varying loads. PTO speed remains fairly steady, aiding productivity for mowing and baling operations. Power boost on all Maxxum engines delivers additional horsepower.



LOADER WORK

Match Maxxum tractors with an L10 series premium loader for highly-productive material handling. The CVXDrive transmission provides smooth and easy one-hand control of direction and ground speed. The ActiveDrive 8 transmission provides similar convenience with unique features such as Memory Shuttle that will return to the previous gear you've selected for both forward and reverse.

The Advanced Loader Joystick lets you

a standard cab to provide a simple and efficient tractor.

The ActiveDrive 8 dual-clutch and CVXDrive continuously-variable transmissions are matched with premium cabs that feature the MultiControl Armrest and Multi-Function handle with controls common to larger Case IH Puma, Optum, Magnum and Steiger tractors.

The turbocharged Case IH FPT engines have electronic management to deliver fuel-savings performance under light loads and can generate up to 24 horsepower of power boost on the four-cylinder models and up to 17 horsepower on the six-cylinder models to handle peak loads.

This additional horsepower is available when mobile hydraulic or mobile PTO operations require more power, and during transport speeds.

"These are full-featured, comfortable, maneuverable and responsive tractors," explains J.E. Cadle, Case IH marketing manager for Maxxum, Puma and Optum tractors. "They're the tractors you can use every day." ■

MAXXUM TRACTOR TRANSMISSIONS

ActiveDrive 4 semi-powershift transmissions feature four powershift gears in four ranges. These are 16- or 17-speed transmissions with peak speeds up to 30 mph and a creeper option.

ActiveDrive 8 dual-clutch transmissions have eight powershift speeds in three electronically shifted ranges. The middle range can shift among eight working speeds between 2.4 and 10.7 mph without torque interruptions. Automated features include Smart Range Shift, ActiveClutch II and SmoothShift. ActiveClutch II allows stopping the tractor using the brake pedals only. Peak speed is 31 mph; creeper is optional.

CVXDrive continuously-variable transmissions offer simple one-lever control of speeds up to 30 mph.

shift all 24 gears of the ActiveDrive 8 transmission or change between programmed speeds on CVXDrive transmissions without removing your hand from the advanced loader joystick.

Add Adaptive Steering Control to reduce the number of rotations it takes to turn the steering wheel, based on ground speed.

Optional heavy duty front axles stand up to high loader duty cycles.

FIELD OPERATIONS

Put a Maxxum tractor to work handling planting, tillage or other field operations in its horsepower range. Use the optional AFS Pro 700 display for fully-integrated AFS AccuGuide autoguidance and implement management on the ActiveDrive 8 and CVXDrive models.

Substantial three-point hitch lift capacity, up to 8,945 pounds, with electronic draft control and newly available hydraulic flow up to 39.6 gpm let Maxxum tractors be matched with tillage tools, planters and seeders, sprayers and specialty crop equipment. Dual rear wheels and bar axles are offered as factory-installed options.

Choose the optional suspended front axle, cab suspension and heated and cooled seat for all-day comfort in the field.

Pulling into **Productivity**

An NTPA relationship leads to a new planter

Back in the early 1970s, Rick Austin was running his family's 1256 International tractor in local tractor pulls around their home farm near Brodhead, Wisconsin. When that tractor suffered a major failure in the field while his dad was running it, Rick says the message was clear: It was time for him to get a tractor they didn't use for farming.

Rick bought a Farmall M tractor, in which he installed a V-8 engine, and started his life-long interest in pulling. He competed in the modified tractor classes with single- and dual-engine blown tractors. When the 2WD modified truck category was introduced in the mid-1980s, it appealed to him for its relative lower cost and easier transport. He built a 2WD truck and continues to compete in that class today.

He became a member of the National Tractor Pulling Association (NTPA) in 1975 and has long been involved in the organization's board and leadership positions.

Rick Austin and his son, Dan, bought this 24-row Early Riser 2150 planter partly at their agronomists' suggestion to use new planting technologies.

When Case IH became involved with NTPA as the "Official Farm Equipment Brand of the NTPA," Austin says that relationship is an important accomplishment for the group. "I knew what it took to have a major implement company get involved with us," he says. "I told our members we needed to do what we could to make this thing work."

His suggestion to his puller friends, most of whom were farmers, was to check out a Case IH product the next time they were in the market. "Just stop in," he told them. "Hear what they have to say."

And that's exactly what Rick did. Although he didn't own any red equipment, he listened to a Case IH rep's description of a Case IH planter displayed at the NTPA's major event in Tomah, Wisconsin, as part of the Case IH sponsorship.

He was ready to upgrade planters, and the rep's description of the Early Riser row unit caught his interest.

"Pulling the gauge wheels, rather than pushing them, is a simple concept that makes so much sense," he says. Rick also saw potential advantages including reduced sidewall compaction and the two-stage closing system.

Rick and his son, Dan, decided to purchase their first red planter, a 24-row 1255 Early Riser Planter in 2013, and a Magnum 290 tractor to pull it. "I figured having the same make tractor and planter would make the electronics work together better," he says. Together, the Austins farm about 4,000 acres of corn and soybeans.

Fast forward to 2018. The 1255 planter and the Magnum 290 tractor had performed well for them, but their agronomist encouraged them to look at a planter with new technologies including hydraulic downforce, electric drive seed meters and high-speed planting capabilities.

"These agronomists are independent. They don't care what kind of planter you have," Rick says. "They walk a lot of fields, and were telling us these new technologies could make a difference for us, and that the high-speed planting is for real."

The Austins traded their 1255 planter for a Case IH 2150 24-row Early Riser Planter equipped with Precision Planting® components including the vSet2® seed meter and vDrive® electric drive motor, DeltaForce® hydraulic downforce management and liquid fertilizer.

The 2000 series planters retain the proven Early Riser row unit advantages of superior seed to soil contact for early germination and emergence in a wide range of conditions. They incorporate a wide range of improvements over the 1200 series planters, such as durable cast-iron row units, larger offset opener blades, increased row unit travel, easier adjustments and reduced maintenance.

"This new planter has just about everything we wanted to see improved on the 1200 series," Rick says. Among the new features he cites are easier depth control adjustments; clean routing of tubes, lines and hoses; a bigger air compressor; and numbers on the row units for easy reference.

He says their 1200 series planter had fewer daily service requirements compared to their previous planter, and this 2150 series planter is even simpler, thanks to the electric drive motors replacing drive shafts and chains. "It makes a difference," he says. "We spend less time in the morning getting ready to plant."

Like most other growers throughout the Midwest, the Austins dealt with delayed planting due to the wet conditions of 2019. With his 1255 planter, Rick saw his best seed placement when he planted in the 4.5- to 5-mph range.

With the 2150 planter, spurred by the short planting windows, he ran faster.

"I'm still not a real high-speed planting guy, but we planted everything at a minimum of 6 mph, and it's unbelievable how many more acres you get done in a day," he says. The stand quality, including

The Austins see an opportunity to use this planter to cover more acres by planting at higher speeds.

depth control and placement, was superior to what he saw from his 1255 planter at 5 mph.

"We had 50 acres to go in one field, and bumped it up to 8 mph. The 2150 planter did a great job at that speed. That hydraulic downforce is awesome," he says. He credits the new metering and downforce systems for delivering improved depth control and seed spacing compared to his 1255 planter.

The Austins' 2150 planter does not have the optional SpeedTubes™ which provide accurate seed delivery in the 8- to 10-mph range. But this planter's solid seed placement performance at 6 to 8 mph, with the option to field-install the SpeedTubes, got Rick thinking about the possibilities.

"We're looking at adding more land," he says. "We could add the SpeedTubes and run faster to cover more acres and stay with one planter. I'm confident we could run 8 mph with this planter and the SpeedTubes, if we have the ground in good shape."

Beyond the 2150 planter's performance at higher speeds, he says the overall planter management, through the AFS Pro 700 display, is easier. "The hydraulic downforce, the seed populations, the liquid fertilizer rates, are all controlled through the Pro 700," Rick says.

Dan has taken the lead on introducing variable rate fertility and prescription planting, using prescriptions provided by their agronomist and managed through the Pro 700 display. "When we check the prescriptions in the field they've been spot-on," he says.

The Pro 700 provides curve compensation to maintain accurate row-by-row populations as the planter travels around curves in the field.

The Austins use AFS AccuGuide RTK autoguidance on the Magnum 290 tractor. The combination of the tractor, the autoguidance, the 24-row planter and some fields with mile-long rows gives them capability of comfortably planting up to 500 acres a day. "And if everything goes well, we still feel good at the end of the day," Rick says. "It's a very comfortable tractor." ■

AN AG COMMUNITY SPORT

As a long-time puller, first with modified tractors and now with a 2WD modified truck, Rick Austin enjoys the competition and the friendships he's developed with fellow farmer/pullers all over the country.

His current truck, Dirt Flirt, is based on a Chevy Colorado pickup truck. Its blown and fuel-injected 526 cubic inch engine produces around 3,000 horsepower.

"The sport of tractor and truck pulling is strong and vibrant," Austin says. "One advantage of pulling is it can take place just about anywhere there's a good surface for pulling, contrary to the facilities required for auto racing, for example."

The addition of the truck classes has broadened the sport's appeal, but pulling continues to be rooted in the country, with the various farm tractor classes being perennial favorites.

"It's an ag community sport," he says.

DON'T LET LAST SEASON'S MOISTURE DAMPEN YOUR YIELD.

After a particularly wet spring, fall tillage is essential to help improve moisture management. The industry-leading Ecolo-Tiger® 875 takes the first step by breaking up yield-robbing compaction. AFS Soil Command™ agronomic control technology further enhances machine performance by allowing you to coordinate control of every component of your Ecolo-Tiger 875 as field conditions change. Adjust the shank depth and all other functions of the machine simultaneously react – optimizing the productivity and agronomic quality of your seedbed with every pass. The result: increased water absorption, reduction in ponding, and soil that warms faster and more evenly for earlier spring planting. Rethink the productivity of your fall tillage by visiting a local Case IH dealer or **caseih.com/fallcompaction**.

CASE IH
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Control Technology **for Tillage**

Optimize tillage tools on-the-go to meet changing conditions

Yield maps prove that many fields contain multiple zones. Differences in soil type, drainage, organic matter and elevation contribute to varied yields. Prescription-based site-specific applications of fertilizer and seed can help align these inputs to meet the varying yield potential throughout the field.

But what about tillage? Why continue to perform consistent tillage across all these varied areas?

"There are likely two reasons," offers Chris Lursen, Case IH tillage marketing manager. "First, you might not have considered the concept of variable tillage, and secondly, making frequent manual adjustments to a tillage tool as you go through a field just isn't feasible."

Now, new applications of the Case IH AFS Soil Command agronomic control technology makes it easy to match your tillage tool performance to varying field conditions.

The initial application of AFS Soil Command was the seedbed sensing technology for Tiger-Mate 255 field cultivators that shows predicted planter row unit ride quality, based on how the sweeps are managing the seedbed floor.

Now this technology has been expanded to provide in-cab control of Case IH Ecolo-Tiger 875 disk rippers, True-Tandem disk harrows, and True-Tandem 335VT and Barracuda vertical tillage tools. And, the performance of these tools can be mapped to add another dimension to site-specific precision farming practices.

"We introduced 'measurement technology' on the Tiger-Mate field cultivator," Lursen says. "Now we're expanding AFS Soil Command capabilities to 'control technology' and as-tilled mapping."

Here's how AFS Soil Command can add a new dimension to the performance of the Ecolo-Tiger 875 disk ripper: When properly set and leveled, the Ecolo-Tiger 875 is unmatched for its ability to size and mix tough residue, shatter a hardpan and leave a level surface.

But conditions can change throughout the field. End rows and other trafficked areas may require running the shanks deeper. Hilltops may require light tillage with ample residues left on the surface; other areas may benefit from having a darker finish.

AFS Soil Command lets you make the necessary adjustments from the cab. If you need more aggressive residue management, lower the disk gangs slightly. Fixing compacted end rows? Leave the disk gangs as they are, but adjust the ripper shanks deeper.

As you make these changes, AFS Soil Command manages the other settings as needed. This controlled coordination keeps the implement level and assures that adding

downpressure to the rear crumbler, for example, won't change the depth of the front disk gangs.

When linked to a site-specific GPS receiver, AFS Soil Command takes a snapshot of the implement's settings and position in the field at one-second intervals. The resulting as-tilled maps provide more soil management insight for precision farming systems.

Similar control and mapping functions apply to the other Case IH implements equipped with the AFS Soil Command option.

"Tillage plays a very influential role in your operation," Lursen says. "Now, this progression of AFS Soil Command tillage technology lets you manage your seedbeds to their highest agronomic potential." ■

AFS SOIL COMMAND FEATURES

	Ecolo-Tiger 875	Tiger-Mate 255	True-Tandem 345/375	True-Tandem 335VT/Barracuda
Fore/Aft Adjustment	✓	✓	✓	✓
Disk Gang Depth	✓			
Disk Frame Depth			✓	✓
Shank Depth	✓	✓		
Leveler Depth	✓			
Crumbler Pressure	✓	✓	✓	✓
Shank Seedbed Sensor		✓		
As-Tilled Mapping	✓	✓	✓	✓
AFS Connect Data Transfer	✓	✓	✓	✓

Producers Evaluate the Ecolo-Tiger 875 Disk Ripper Equipped with AFS Soil Command System

SCOTT JOHNSON ***Wells, Minnesota***

"We have multiple operators running our equipment, so I liked the fact that you can set the implement and know that it will stay that way," explains Johnson.

His operation currently uses two Ecolo-Tiger 875 disk rippers. "We do all our fall tillage on corn stalks with the 875s. We like them for the leveling performance, and for sizing the stalks," he says.

As he used the AFS Soil Command system, Johnson says the ability to save implement settings in four presets offers advantages.

"This would make it easier for less experienced help to run this tillage equipment properly," he says.

AL KLINKNER ***Lake Crystal, Minnesota***

The ease of making adjustments to the Ecolo-Tiger 875 disk ripper, from the cab, on-the-go, appeals to Klinkner.

"We have a couple of fields that are rolling, and go from anywhere from peat-type soil to sand. We could make adjustments to leave more residue, or bury more, as needed," he says. "What's nice is that you can hit a button and pick up the front disks a bit, or pick up the back end," he says. When that happens, the AFS Soil Command makes other minor adjustments to keep the machine level.

"The adjustability of this disk ripper is a nice feature," Klinkner says. "When adjustments are easy, they're more likely to be made."

Faster **and Better**

AFS Harvest Command outperforms the best operators

"The reality is the computer can judge more things than a human can, and it can respond much faster."

That's the impression Mark Crouse had after spending eight hours running a Case IH Axial-Flow 7250 combine equipped with the AFS Harvest Command combine automation system.

As an experienced combine operator, Crouse left a field demonstration convinced that the automation delivers a better sample and higher overall productivity than a person can do by monitoring operations and making adjustments manually.

AFS Harvest Command automation is an option for Axial-Flow 250 series combines. It uses 16 sensors to continually monitor and control seven functions within the combine to maximize quality and grain savings.

It's the product of years of development and evaluations over thousands of acres of crops in a wide range of conditions throughout the world.

"You hear that rotor rumble, your instinct is to slow down. But I was slowing down earlier than the combine would with the automation on." *-Mark Crouse*

As part of the process, Case IH engineers rode with knowledgeable combine operators and observed the combine adjustments they made to respond to changing harvesting conditions. AFS Harvest Command automation algorithms were fine-tuned based in part on these operators' actions.

The result is an easy-to-use system that performs levels of machine monitoring and adjustment that even an experienced person simply can't match.

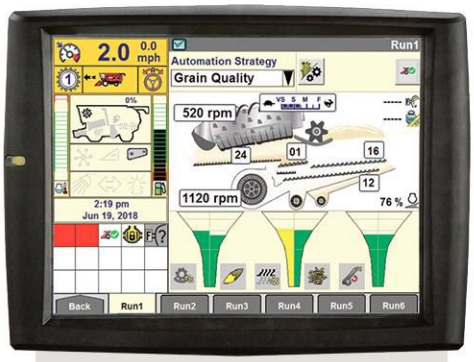
"As an operator, you hear that rotor rumble, your instinct is to slow down, because you don't want to plug the machine," Crouse says. "But I realized I was slowing down earlier, and more slowly, than the combine would with the automation on. This system knows what the machine can handle."

Crouse, of Elkton, Maryland, was one of several producers who spent time experiencing AFS Harvest Command automation at the Case IH field day this past summer.

He ran the AFS Harvest Command-equipped Axial-Flow 7250 combine with a 35-foot head, in the same field with two Axial-Flow 8230 combines with 40-foot heads. They were harvesting wheat averaging 90 bushels per acre, in good harvesting conditions.

"I was harvesting more grain than the bigger combines because I could run faster with the AFS Harvest Command," he says. "I had it set at 94% engine load, running at 4.2 mph. That system constantly makes changes faster than the operator can recognize."

Among his impressions were the facts that the combine can essentially manage itself, including forward ground speed, and that it constantly manages its systems for maximum harvesting capacity.



The AFS Pro 700 display shows the adjustments the AFS Harvest Command system makes in real time.

FOUR MODES OF OPERATION

AFS Harvest Command lets the operator choose from four modes of operation to optimize combine performance through the AFS Pro 700 display.

- **The Performance mode** is the choice for harvesting in ideal crop conditions. It provides an optimal balance of grain savings, grain quality and grain throughput.
- **The Grain Quality mode** delivers the highest-quality grain possible, ideal for food-grade and seed crops.
- **Maximum Throughput mode** prioritizes throughput, balanced with grain savings and quality. Choose this option when timeliness is critical.
- **Fixed Throughput mode** lets you set a steady harvest rate, managing grain savings, quality and throughput.

The system's actions are displayed in the automation run screen. There, you can monitor rotor loss, grain quality, sieve loss, sample quality and tailings volume. And, you can watch in real time the changes AFS Harvest Command is making to optimize combine performance.

"The screen shows all the information you need," Crouse says. "If you see something you'd like to adjust, just push the button and change it."

Jonathan Quinn, of Warwick, Maryland, also participated in the field demonstration of AFS Harvest Command, spending an afternoon running the 7250 Axial-Flow combine in wheat.

"I was impressed," he says. "I own an Axial-Flow 7240 combine now, and had it in the same field with this 7250. My combine was set really well, but the 7250 was

"We let the automation do everything; it put out a better sample, and there was less grain showing on the ground." *-Jonathan Quinn*

doing a better job. We let the automation do everything; it put out a better sample, and there was less grain showing on the ground."

As the 7250 encountered some heavy, lodged crop, Quinn noted the combine slowed down, handled the heavier crop, then sped up to the ground speed he had selected. "It was incredible to me that the machine can do something like that on its own," he says.

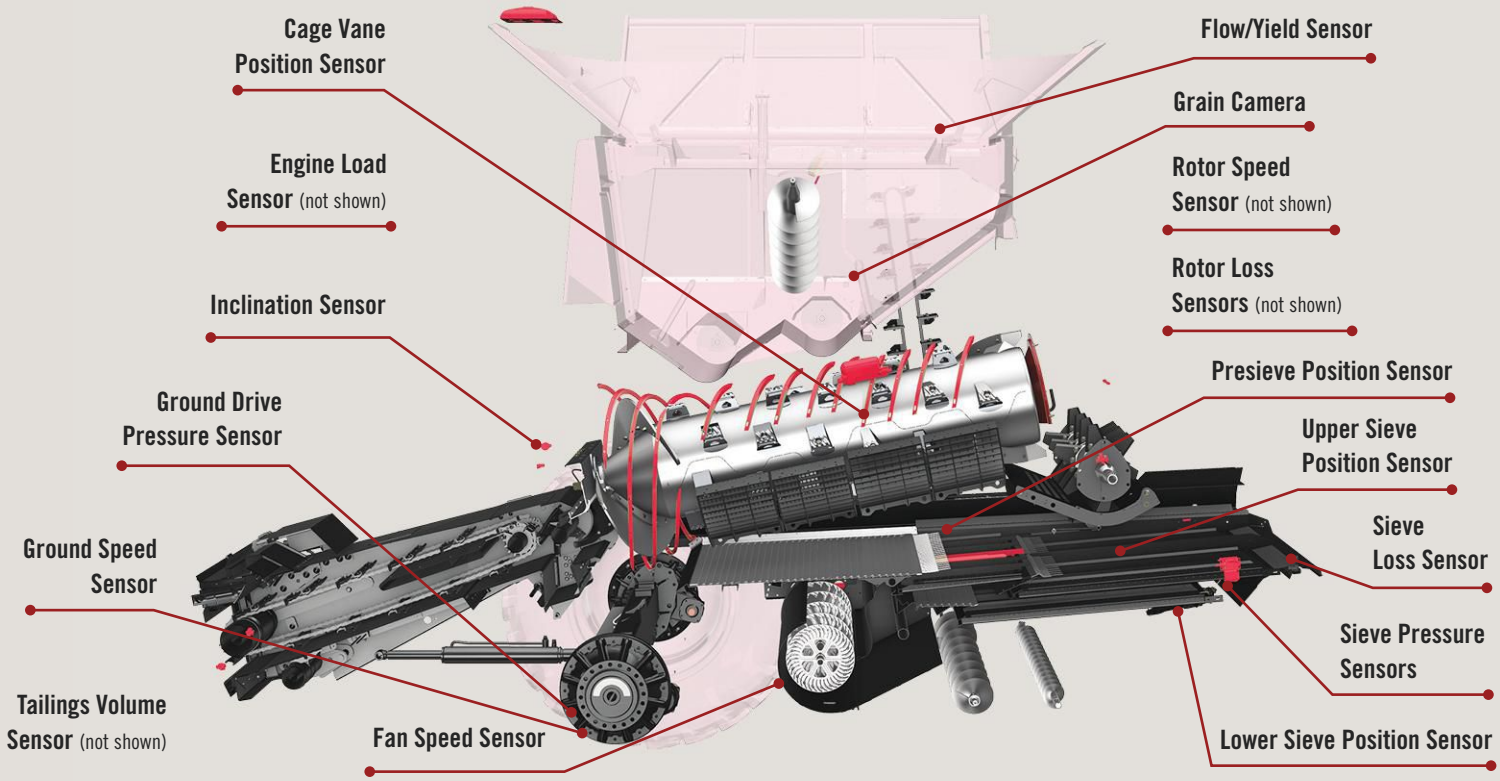
Quinn sees having confidence with less-experienced operators as an advantage. "Select the crop, set the mode you want, and go. You know it's going to adjust the machine as the crop conditions change."

After experiencing AFS Harvest Command alongside his current combine, Quinn says he'd definitely consider it for his next combine. "It makes it easier to set up the machine for the crop, and I think it will pay for itself in a year, or no more than two years, from the grain it saves."

Crouse sees getting this option for his next combine, as well. "I'm not looking in the grain tank every minute," he says. "But this is." ■

FULLY MONITORED AND PROACTIVELY CONTROLLED

The AFS Harvest Command combine automation system uses 16 sensors to proactively adjust seven combine functions.



In Volatile Times, Cash Flow is King

A current Case IH program offers 0% interest through 2020

The unforeseen crop production and market challenges of 2019 could have many producers re-evaluating their equipment trade plans, for several reasons.

The short planting windows resulting from persistent wet weather accentuated the benefit of having higher capacity, higher productivity equipment. Depending on how this year plays out, some producers could see net cash returns surprising to the upside. And then there's the uncertainty of next year's weather and markets.

"We see this as a situation where cash flow is king, and where the value of having high-capacity equipment has been proven like never before," says Bill Weber, high-horsepower tractor marketing manager for Case IH.

Especially for producers who are coming through 2019 in good shape, and have high equity in equipment that's several years old, this is a good time to look hard at cash projections for next year.

You need ample cash on hand for expenses, and the more financial risk you can remove, the more accurate your cash-flow projections will be.

UPGRADING EQUIPMENT CAN HELP

A current Case IH program is an example.

Through Dec. 31, 2019, buyers of new 2019 and 2020 model year Magnum and Steiger series tractors can have 0% interest through 2020. Their first payment will be due on Jan. 1, 2021, with future payments based on the qualified customer rate. This program is available to well-qualified credit customers with 35% down in the form of cash or trade.

"This program will get you through 2020 with a new tractor with a warranty for three years or 2,000 hours, whichever comes first," Weber says.

Adding a Purchased Protection Plan at the time of purchase will extend repair expense coverage beyond the base warranty period. This continues protection against unplanned costs and aids cash-flow management. Because it's transferrable, a Purchased Protection Plan can add value at trade-in time.

The practice of getting the best cash price on a piece of equipment, and buying it outright, can still make sense. A counterpoint is you're laying out money that could be used for other purposes. Now, especially in more volatile economic conditions, using options that can sustain higher cash flow can be more beneficial.

NEW TECHNOLOGY

Weber emphasizes the new AFS Connect Magnum series tractors include technology advancements that can save time and boost productivity. The ability to receive planting prescriptions directly from agronomists can help streamline planting. Viewing the AFS Pro 1200 screen in the AFS Connect Magnum tractor's cab, remotely from a tablet or laptop during operation, can help keep tabs on planting progress. An added benefit of AFS Connect is the time-saving function of having the Case IH dealer resolve some fault codes remotely.

"This technology can save on input costs, save on trips to the field, and improve uptime," Weber says. "All this helps cash-flow management."

He adds the current program on high-horsepower tractors is an example of how Case IH is rethinking productivity by recognizing cash flow as a vital production component.

"At Case IH and CNH Industrial Capital, we pride ourselves on putting together tools to make your life easier and your operation run more smoothly," Weber says.

Investing in **Performance**

Indiana brothers seek equipment that will earn its way

The Kohlhagen brothers, Kent, Kyle and Ryan, spend a fair amount of time debating equipment purchases.

"We try to invest our money on equipment that will make a good return," Ryan says. "Most of our income gets pushed toward equipment in order to stay productive," Kent adds.

The Kohlhagens farm about 4,000 acres of corn, soybeans and hay near Rensselaer, Indiana, having taken over the reins from their father, Richard, who continues to work with them. It's a combination of owned, rented and crop-share ground.

In the early 2000s, Ryan and Kyle were employed off-farm and helping Kent and their father on weekends. As workloads increased, the brothers realized they either had to hire help or grow the operation to support all of them.

"We reached a point where we were sort of spinning our wheels," Ryan says.

Ryan and Kyle decided to join the farm full time, and expand the operation with the priority of using their own labor, exclusively.

They were able to take advantage of local ag trends to expand. As farmers in the area gave up livestock to focus on cash grain, the Kohlhagens kept their hay equipment and responded to people wanting small plots baled. When several large dairies became established nearby, the Kohlhagens began providing their hay.

On the grain front, several ethanol plants and soybean processors in the region provide good markets for those crops. "We're in a good area for marketing all of our crops," Kent says.

A recent equipment purchase reflects their emphasis on investing in efficiency and return. After 2018's corn crop, they wanted to upgrade their Case IH Early Riser 1250 16-row planter to gain the efficiencies of the

Kent, Ryan and Kyle Kohlhagen with their father, Richard.

Precision Planting® technologies.

As they discussed 24- and 32-row versions, their Case IH salesman, who has worked with the family since the early 1990s, talked about the productivity potential of the new Early Riser 2000 series planters. Equipped with technology options for planting up to 10 mph, he suggested a 16-row planter could be a better choice than a larger planter, especially considering the Kohlhagens' many smaller 40- to 60-acre fields.

They opted for a 16-row Early Riser 2150 planter equipped with Precision Planting technology including the vSet 2® seed meters and vDrive® electric drive motors, DeltaForce® hydraulic downforce, and the Advanced Seed Delivery system including the SpeedTube ™ flighted seed delivery belt. The SpeedTubes use a flighted belt for accurate seed delivery to furrow at higher speeds.

"Making the investment for the SpeedTubes was a tough call, but I'm glad we did it because our planting window was so short," Kyle says.

Kent explains that he would not have planted above 5 mph with their Early Riser 1250 planter. But the challenging weather conditions of 2019 had him planting many acres running the 2150 planter in the 8- to 10-mph range to get corn planted in between rains.

"I never thought it would be possible to go 9 mph-plus and see 99.8% singulation, but that's what we were getting. Every seed was delivered to the bottom of the trench; we got that picket-fence stand," Kent says.

Their "will it pay" analysis has led them to owning two applicators, a Case IH Patriot 3340 sprayer and a Case IH Titan 3520 spreader. They used a pull-type sprayer for years, and as their acreage grew and more glyphosate-resistant weeds appeared, Ryan says their number of applications increased.

"It got to where the sprayer never left the tractor, so we decided to replace the tractor and sprayer with a unit that's made for spraying and would do a better job," he says.

The Patriot 3340 with 120-foot booms is their third Patriot sprayer, and their first with the AIM Command FLEX spray management system. "In smaller fields, even with that 120-foot boom, I can go around corners and it will shut off individual row units as it needs to," Ryan says. "Or I can lower the pressure if I'm near a sensitive area like a house and not worry about drift. We're using less chemical—it's a more efficient sprayer."

"We try to invest our money on equipment that will make a good return."

They purchased the pre-owned twin-bin Titan spreader as a way to gain more timely applications and to assure accurate variable rate fertility. "Most of the land we farm is on a four-year soil sampling program, and we vary the rates of potash, lime and phosphorus," Ryan says. "We penciled it out. This machine will pay for itself in several years, and we're doing a better job."

Kent notes they sell seed as a sideline, and can use the spreader for custom applications to help their seed customers improve fertility.

Their hay operations got a boost as nearby dairies expanded, including one of Indiana's largest dairies.

"Eight years ago, we purchased our first big square baler to serve the dairies," Kent says. "Now we're running three large square balers, two round balers and two small square balers."

Their newest hay equipment includes Case IH models, a LB434R large square baler, a 541C small square baler and two WD2303 Series II windrowers with AFS AccuGuide autoguidance.

Ryan Kohlhagen says they were seeing 99% singulation at 9 mph with the optional SpeedTube seed delivery system.

"We have a 'baler force' when we head to the field," Kent explains. "It seems like our optimum baling time for maximum drying is from 2:00 to 5:00 in the afternoon. That's why we run two balers rather than try to push one, and if one breaks down, we're still baling."

The Kohlhagens cater to all types of hay customers from those who want a couple of small squares to those ordering semi loads of 4' x 3' bales. To help manage hay sales, they built a 100- by 304-foot storage building with 20-foot walls. It's designed to have loaded hay racks stored along either side with ample room in the middle to pull in all their equipment at night.

Buyers looking for smaller amounts of hay can view the bales on the racks, which are labeled with the blends of hay. The small square bales are popular with horse owners and hobby farmers with goats and lambs, as well as for people showing livestock at county fairs.

Kent says they grow pure alfalfa and orchardgrass or timothy with alfalfa on about 600 acres for their commercial hay contracts. They get additional hay from harvesting small plots from landowners who don't have a use for it. "There aren't as many farmers who bale hay around here as there used to be, so we'll do it," he says. They also do several hundred acres of custom baling for the dairies.

All this activity, especially throughout the summer, has the brothers looking harder at their time management. They want to be more giving of their time to their church, their families and their community, and to continue the involvement their families have with 4-H and FFA on the local and state levels. The more efficient equipment is helping, as is being more selective about taking on additional custom work.

Developing clear succession plans is also a priority for the brothers. "We've been blessed to have the opportunities to make the farm grow," Kyle says. "Now we want to want to have things in order for the next generation." ■

The Kohlhagens produce small square and large rectangular bales plus round bales. Customers range from hobby farmers to large dairies.

Fully Connected

MY CASE IH FOR YOUR FLEET'S DATA

Regardless of whether you have the new AFS Connect, use MyCaseIH.com to gain a content-rich resource for many recent-model Case IH tractors, combines, applicators and implements. By creating a free account on MyCaseIH.com and registering your equipment, you'll have immediate access to a wide range of manuals and brochures including operator's manuals, plus video tutorials and other performance-related materials specific to your fleet.

Check your equipment, share data, remotely

Enhancements to the Case IH Advanced Farming Systems (AFS) Connect farm management system make it easier to keep track of your equipment and its operation. You can check the status of Case IH tractors and combines equipped with AFS Connect in near-real-time through your desktop, tablet or mobile device with internet access.

"It's all about high-efficiency farming," says Kirk Wesley, Case IH Advanced Farming Systems marketing manager. "AFS Connect gives you more information and control, and can free up your time to handle other tasks."

Tractors and combines equipped with AFS Connect continually gather operating data and send it to the AFS Connect cloud. Accessed through MyCaseIH.com, this data flows into three portals — Farm, Fleet and Data. The data can be viewed by you, along with any other trusted partner to whom you've granted permission.

The Farm portal contains all the field activity. It's where you manage maps and prescriptions, and gather yield data. Mapping information, including A/B lines, can easily be sent from your home computer, as well as between tractors or combines equipped with AFS Connect.

The Fleet portal shows the equipment's operation. You can view most machine data such as ground speed, engine speed, fuel levels, temperatures, percent of power and harvesting performance, and set customized parameters and alerts. For example, during planting and harvesting operations, you may want your operator to run the tractor or combine within a specified speed range. You can have AFS Connect send a text message to your cell phone if the machine runs for more than two minutes below 4 mph or above 6.5 mph, for example.

You can also have any fault codes texted to you and your Case IH dealer for further analysis and resolution. Firmware Over-The-Air (FOTA) capability allows wireless updates to the equipment's firmware.

The Data portal provides the aggregation point for sharing field data with trusted partners. Rather than physically visiting the machine with a USB drive, data can be accessed through the AFS Connect cloud by those parties with permission, such as agronomists and seed salespeople.

These new capabilities and many more, such as shared screen viewing, are included as part of the new AFS Vision Pro operating system and the new AFS Pro 1200 display included on the model year 2020 AFS Connect Magnum series tractors.

Learn more about My Case IH at:
My.CaseIH.com>Knowledge Base>Explore the new My Case IH

A Hard-Working Fluid

Keep hydraulic fluid clean; manage moisture

The credit for much of the increased productivity of today's tractors, combines, planters and seeders goes to hydraulics.

Flowing at more than 50 gpm at pressures of 3000 psi and higher, hydraulic fluid is why hydraulic cylinders and motors, transmissions, brakes and steering respond with tremendous power to your light touch.

In return for all that it does, hard-working hydraulic fluid simply asks for two things: keep it clean and manage moisture.

DIRT IS A CONSTANT THREAT

Dirt and grime gets introduced through the hydraulic couplers that are used frequently and typically cleaned casually, if at all. Dirty oil from implements gets introduced to the tractor's hydraulic system. And drive systems, including transmissions and brakes, shed tiny bits of metal as they wear.

Hydraulic pumps need protection from these contaminates. These pumps function with extremely tight tolerances; they are extremely sensitive to contaminates as small as 10 microns. That's eight times smaller than the width of a human hair.

Water, introduced as condensation from temperature changes and through the remote valves, can lead to rust, sticky valves, restricted hydraulic fluid flow and pump cavitation.

For these reasons, Case IH recommends Hy-Tran Ultraction hydraulic fluid for most of its equipment, and CNH Industrial hydraulic filters. Each product offers distinct advantages compared to other brands of fluid and filters.

The Hy-Tran formulation has been continually improved to meet the demands presented by ever more powerful equipment and new applications. It has the unique ability to hold up to 1% of its volume in water without any harmful effects.

The current version, Hy-Tran Ultraction, offers higher levels of shear tolerance, more responsive performance, and the ability to maintain its properties under high pressures and loads. Hy-Tran Ultraction was developed to maximize the efficiency and life of CVXDrive transmissions and is a low-foaming multi-viscosity fluid that will maintain consistent power-transmitting qualities across a wide range of operating temperatures.

Hy-Tran Ultraction is approved for use in all equipment for which Hy-Tran is recommended. There's no need to have multiple fluids. Hy-Tran Ultraction can be used in the transmission and hydraulic system of every machine calling for Hy-Tran.

HIGH-PERFORMANCE FILTERS

Those high pressures, high flow rates and potentially high dirt loads require filters designed for these conditions. Genuine Case IH filters, engineered for Case IH equipment, have up to 20% more dirt-holding capacity compared to other brands of filters.

The Case IH filters use a patented synthetic media and an internal "potting to baffle" design that protects against bunching, withstands high pressures, and reduces pressure drop. Case IH tests have shown these hydraulic filters to continue to perform after one million pressure cycles.

FIND YOUR PERFECT FLOW.

At harvest, you have one goal: ensuring an effortless flow of grain from the field to the bin. Case IH Axial-Flow® combines are engineered for matched capacity to deliver proven grain savings. The industry-leading single rotor design ensures grain quality and increased productivity. And the new AFS Harvest Command™ automation can even optimize harvest settings on the go. Keep efficiency flowing smoothly — learn more at **caseih.com/perfect-flow**.

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High-Efficiency **Application**

Improve your on-row efficiency

The justification for owning a sprayer is being able to apply crop nutrients and protectants in a timely and accurate manner. At critical times, a few days' difference can greatly affect the effectiveness of the application.

"We talk about on-row efficiency," says Mark Burns, Case IH application equipment marketing manager. "Anything you can do to keep that sprayer in the field, accurately applying product, is going to improve that factor."

High-efficiency application begins with having the sprayer field-ready. "Take care of all the basic maintenance before you're going to use the sprayer," Burns says. In addition to fluids and filters, he recommends a good visual inspection of the entire machine for any potential fatigue failures.

"These machines get used in some pretty harsh field conditions. You want to make sure there are no structural issues prior to going to the field," he says.

CALIBRATE THE SPRAY SYSTEM

"Make sure the gallons you're putting through the system match what the control system tells you it's putting on," Burns says. "Otherwise, you're going to have misapplications." This calibration should include distance calibration for systems using radar to determine ground speed.

TECHNOLOGY UPGRADES

Case IH dealers can equip your older sprayer with new technology. For example, adding assisted steering or autoguidance systems can greatly improve application accuracy and efficiency.

For sprayers without it, Burns says he would definitely recommend the advanced spray technology of AIM Command FLEX. It's available for Patriot sprayers dating back to 2009. He also suggests adding automatic boom height control. "It's going to maintain your target height above the ground, and it reduces the chance of the booms making contact with the ground," he says.

This is also the time to check all the spray tips for consistent output and pattern. "That's very important," Burns says. "You want the proper tips, in good condition, for a quality application."

Tendering presents many opportunities for maximizing on-row time. While every farms' tendering systems can vary, Burns says simply using larger hoses, going from 2-inch to 3-inch diameter hoses, for example, can dramatically reduce refill times. Choosing an optional automated rinse system for sprayers is another time-saver.

In the field, put technology to work for high-efficiency applications. Autoguidance systems assure consistent coverage without overlaps even with the largest booms and can reduce operator fatigue during long hours in the cab.

The Case IH AIM Command spray management system, with its pulse width modulation technology, is well-known for its ability to manage rate and spray pressure to maintain consistent spray applications as ground speed varies. It lets you travel faster when conditions allow or run slowly when needed without sacrificing spray quality.

The new AIM Command FLEX advanced spray technology adds more productivity features such as higher levels of rate control and section control, turn compensation and nozzle valve diagnostics.

"Even things like the nozzle valve diagnostics contribute to high-efficiency applications," Burns says. "It alerts you to a problem, and pinpoints the location. You don't spend time walking down the boom, searching where the issue might be."

Logically, equipment with larger tanks and wider booms, will let you cover more acres in the same amount of time. Case IH has introduced 1,600-gallon tanks for both its Patriot 4440 sprayers and Trident 5550 combination applicators, and new 132- and 135-foot spray booms are now offered for the Patriot 4440 sprayers.

But no matter what size sprayer best fits your operation, Burns says having your sprayer ready to run, efficiently tendered, and equipped with the latest technology will deliver a high-efficiency application. ■

CONSIDER ASSET UTILIZATION

A sprayer can stay very busy, but adding dry product capabilities can extend its use. The Case IH Trident 5550 combination applicator can be switched between liquid and dry product application in as little as 42 minutes to gain higher utilization from one machine.

Combine **Storage**

Put your combine away clean and ready

Especially if harvest has been long and challenging, you might feel like walking away from the combine after the last load leaves the field.

"That would be the wrong thing to do," says Case IH Harvesting Product Specialist Victor Gunn. Performing good post-harvest maintenance can help the machine sit through much of the next year without any issues, and be ready to go when the next crop ripens.

"First, always refer to the operator's manual," says Gunn, who's based in Alberta. "That's the best source of information for all recommended service actions."

Beyond that, Gunn has suggestions based on his experience in the field.

He encourages producers to fix any problems that occurred during harvest, or that you find as you clean the combine. "It's better to have the combine ready to run when you need it, rather than being slowed down by something you didn't fix from last year," Gunn says. ■

GUNN SHARES THESE STORAGE TIPS; THE OPERATOR'S MANUAL HAS MORE

"The cleaner you can store the combine, the better," he says. A thorough pressure washing will remove crop material that can hold moisture and attract rodents. And it will give you a better view of the machine and any items that may need attention.

Use the pressure washer cautiously around bearings and electrical connections. "That high pressure can drive water where it shouldn't be," he says. After pressure washing, he recommends greasing all bearings to get fresh grease in there, and to push out any water that may have entered.

"Storing the engine with fresh oil and filters is always a good idea," Gunn says. "It's one less thing to do next season, and any moisture in the oil can become a bit acidic and potentially harm the bearings."

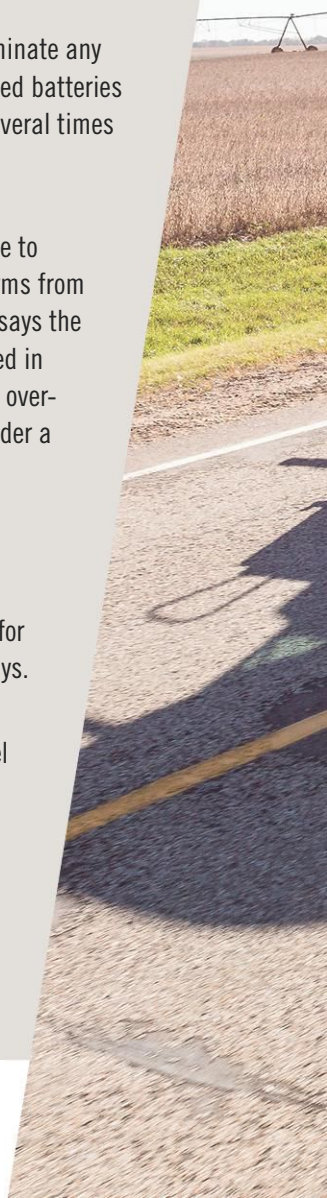
Because combines in Canada can experience extreme cold during storage and may sit for up to 10 months before the next use, Gunn recommends draining the diesel exhaust fluid (DEF) tank and flushing it with demineralized water. DEF has a shelf life of one to two years and can crystallize over time. This way, you'll start the next season with fresh DEF.

Disconnect the batteries to eliminate any potential drain-down. Discharged batteries can freeze. "I'd charge them several times during storage, as well," he says.

Fill the fuel tank prior to storage to minimize condensation that forms from big temperature swings. Gunn says the winter blend diesel fuel commonly distributed in Canada beginning in late fall is suitable for over-winter storage. Biodiesel users should consider a biocide fuel treatment.

"In-cab electronics, while not particularly vulnerable to cold, might be better stored indoors for security and protection from rodents," he says.

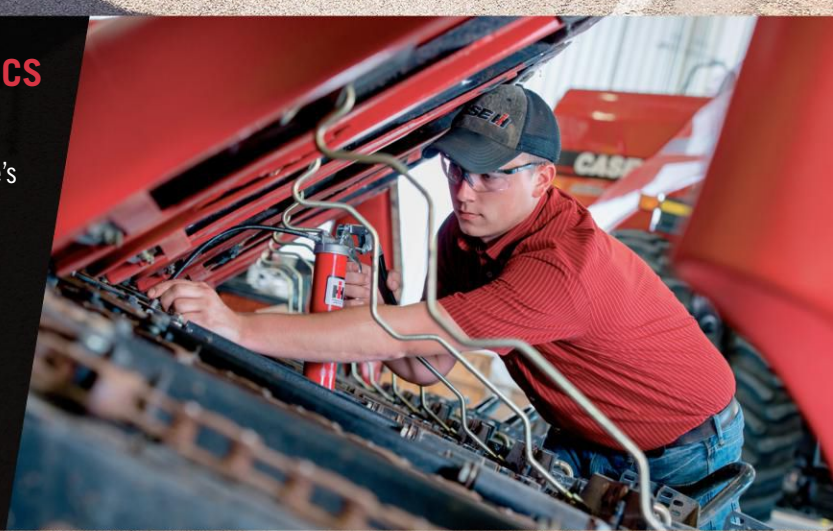
Give grain heads the same level of post-harvest maintenance and attention you give to the combine, including a thorough cleaning and lubrication. Gunn says reducing the tension on draper belts can help maintain their performance. Store corn and grain heads indoors, if possible.



"Take care of any repairs at the end of the season, prior to storage. Consider Case IH dealer Customized Maintenance Inspections for professional post-harvest service."

DEALER INSPECTIONS AND COMBINE CLINICS

- An alternative to doing this work yourself is to use Case IH dealers' Customized Maintenance Inspections for your combine's post-season care. These popular inspections are performed by service technicians who are familiar with Axial-Flow series combines and have access to the latest Case IH service information. They'll perform all necessary maintenance and repairs to have your combine field-ready.
- Gunn also recommends attending the combine clinics held by many Case IH dealers in the off-season. "These clinics provide good information on operation and maintenance," he says.



A NO NONSENSE TRACTOR WITH PLENTY OF VALUE.

Case IH Farmall® utility A series tractors offer more standard features to give you industry-leading performance and value. Our tractors provide increased uptime, with advanced engine technology that requires no engine regeneration. But when the day gets long, these tractors offer a smooth ride with comfortable seating, ergonomic controls, and a new spacious cab option. Case IH Farmall utility A series tractors enable you to push, pull and lift more. That's because the tractor is engineered with evenly distributed weight in the places where it counts — from heavy-duty powertrain components, to the axle and transmission design, to engine displacement. To learn more about Farmall utility A series tractors, visit your local Case IH dealer or **caseih.com** today!

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Pulling Ahead

NTPA celebrates 50 years of the "world's heaviest motorsport"

Tractor pulling is part of the fabric of rural life. From the days of "pull on Sunday and plow on Monday" when most pulling tractors were fresh out of the field, tractor pulls pack the grandstands at county fairs and other ag events across the country.

"Tractor pulling continues to be popular in part because it's affordable," says Gregg Randall, National Tractor Pulling Association (NTPA) general manager. Attending a tractor pull, especially at county fairs, is affordable family entertainment.

"A family of four can go to a local pull for less than the price of a NASCAR ticket," Randall says.

As farm tractors became more powerful with the wider adoption of diesel engines in the 1960s, tractor pulling grew in popularity. NTPA was formed in 1969 to establish uniform rules and give the sport structure.

Now celebrating its 50th anniversary, NTPA sponsors more than 80 events. Many more regional and local tractor pull events follow NTPA guidelines for safety and tractor classifications. Case IH is the official farm equipment brand of the NTPA.

Today NTPA has 14 classes for tractor and truck competitors ranging from the Super Farm Tractor class, which most closely resembles farm tractors, to classes covering pullers running tractors with multiple engines, pickup trucks and semi trucks.

Farm tractors, and the brand loyalties that come with them, continue to be among the most popular entrants in this world's heaviest motorsport.

Tim Overmyer has been competing with his "Sandhill Binder" light pro stock tractors, based on International Harvester 50 and 66 series tractors, for more than 25 years. Overmyer, who farms near Monterey, Indiana, has been an NTPA member since 1994. "NTPA came up with the rules that apply nationwide, so that everybody's on the same playing field," he says.

PHOTO: DAVE DANN

Tim Overmyer's IH-based Sandhill Binder tractors have been competitive pullers for more than 25 years at events throughout the Midwest.

Overmyer says the sport has changed by leaps and bounds from his early days of competition. "Back then, we'd find a bigger turbocharger and turn up the fuel pump," he says.

Today, he competes in about 20 pulls a year in his light pro stock class. "The technology that's out there is changing at lightning speed. Lots of people have dynamometers, and they're always trying new things."

Overmyer sees even more power being produced in the farm tractor-based divisions. "The super stock tractors with multiple turbos are pushing 300 psi of boost. That's probably 10 times over a stock tractor. The smoke and the sound is tremendous," he says. "You can hear and feel the horsepower. The crowds love it."

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.

Durable New Hoe Drill

New Flex Hoe 900 air drills expand the Case IH Flex Hoe series of hoe air drills with a durable air drill that can be easily adjusted to meet changing ground conditions.

The Flex Hoe 900 is equipped with a proven parallel link opener, designed for exceptional ground contour following, to ensure accurate and consistent seed placement. Available in 50-, 60- and 70-foot tool bars with 10- or 12-inch spacing, this air drill features a new, intuitive user interface so operators can make quick, on-the-go adjustments.

Designed with agronomic ground-engaging components, the Flex Hoe 900 features a short opener length, creating a true 1-to-1 ratio between the knife and press wheel. This 1-to-1 ratio is key to ensuring accurate and consistent seed placement.

Its proven parallel link opener — and a shorter, more flexible three-rank frame — yields exceptional ground contour following for superior crop emergence. Additionally, a lower-weight design improves flotation to minimize soil compaction. Lower weight also aids transport.

A new, patented QUICK-LOCK depth adjuster is ergonomically positioned at waist height and built with presets for easy, tool-free adjustments on each opener to accommodate changing field conditions and crop types, eliminating the need for a wrench or any other tools.

The Flex Hoe 900 air drill incorporates a new user interface that operators of Precision Air 5 series air cart and Precision Disk air drill will find familiar.

The Advanced Farming Systems (AFS) Pro 700 display manages opener and frame down pressure from the run screen. Five presets allow easy changes for varying soil conditions — all from the cab.

To further simplify operation, the Fold Wizard prompts the operator when to remove transport lock pins, what remotes to activate and when to activate them, as well as safety reminders. This functional automation removes some of the technical skills from the tasks, making it easier for operators to run efficiently regardless of their skill levels.

The Flex Hoe 900 air drill is built tough through innovative manufacturing practices such as laser cutting and machine after-welding to result in stronger and more robust openers. Advanced materials paired with durable components in all joints eliminates wear, while large-diameter chrome pins and sintered metal bushings are used on all pivots to increase uptime and reduce maintenance costs.

To further help producers cover more acres in a day and transport easily between fields, the Flex Hoe 900 features an innovative fold-back design and an efficient transport size. Pair the Flex Hoe 900 with a Precision Air 5 series air cart and a Steiger series tractor for maximum productivity.

The Flex Hoe 900 expands the Case IH seeding lineup and will be available for the Model Year 2020 season.

New 60-Foot Configurations For Early Riser Planters

Two new 60-foot configurations are now available for the Case IH 2160 Early Riser large front-fold planters.

These new planters come in 15-inch split-row and 30-inch configurations to meet the demands of large-scale producers across any terrain or soil type, with unmatched accuracy in seed placement and depth as well as easy serviceability.

The split-row unit can plant soybeans or specialty crops in 47 rows with 15-inch spacing and corn in 24 rows with 30-inch spacing. The 30-inch unit plants corn or soybeans in 24 rows with 30-inch spacing. Both configurations use a 60-foot toolbar; the 2160 Early Riser is the largest split-row planter available from Case IH.

The 2160 Early Riser planters also provide 50 percent more seed and liquid fertilizer capacity than other models in the lineup. This added capacity, coupled with minimal daily maintenance and in-cab adjustments, reduces downtime and labor requirements while increasing acres planted.

These new model options offer several features and configurations designed to meet users' specific applications:

- A Hydraulic lift on the split row model allows for fast conversion between 15-inch-row and 30-inch-row crops
- Optional soybean special version for 15-inch-row crops
- Precise seed placement and singulation
- The ability to plant specialty crops such as canola
- Twenty-four rows with 30-inch-row spacing with options that are not available on the 2150 front-fold
- The optional Rowtrac Carrier System increases flotation and reduces compaction
- Wheels in front of the toolbar help maintain consistent performance in soft, sticky and stony conditions
- Heavy-duty built frame and increased liquid fertilizer capacity at 600 gallons
- The steerable rear axle improves maneuverability to tight field entrances

In addition to traditional corn- and soybean-growing regions, the split-row configuration brings big benefits to the wheat-growing regions for double-cropping soybeans. Using this planter, rather than a drill, gives more accurate seed placement, and singulation of 99% or higher can help reduce input costs, all while producing a better stand and higher soybean yields. The high-capacity efficiency of this 2160 planter helps ensure timely planting after cutting wheat.

These new 2160 Early Riser configurations will be available for the 2020 planting season.

The new 47R15 and 24R30 configurations are additions to the 2160 Early Riser large front-fold planter offerings, which are available in 32-row 30-inch or 36-row 20-, 22- or 30-inch configurations.

The 2000 series portfolio also includes the 2130 Early Riser stack-fold model, available with 12-row and 30-, 36-, 38- or 40-inch spacing or 16-row with 30-inch spacing; 2140 Early Riser pivot-transport planter, available in 23-, 24-, 31- or 32-row configurations with 15-inch spacing, and 24-row with 20- or 22-inch spacing and a split-row configuration option; and the 2150 Early Riser front-fold planter, available in 12-, 16- or 24-row 30-inch configurations.

New Multi-Crop Round Baler Handles Heavy Wet Silage

The new Case IH RB565 Premium HD round baler has the flexibility to bale a full range of crops. This all-purpose multi-crop 5x6 baler can efficiently handle material from wet silage to dry hay, straw and stalks. This new baler expands the RB5 series lineup, taking high-efficiency hay production to the next level.

Especially for producers wanting to produce baleage in a 5x6 bale, Case IH has added the proven, robust design of its 4-foot silage baler to this new 5-foot baler with some additional features.

Building on the robust design, larger platform and improved bale-ejection system of the RB5 series, RB565 Premium HD round balers help to achieve higher bale density with heavy-duty upgrades to the drive components including the main gearbox, drive chains and sprockets, and a higher torque load for the cutout clutch. A factory-installed moisture sensor is an option; the endless belts have a 3-year 15,000-bale warranty.

The RB565 Premium HD round balers can be equipped with ISOBUS Class 3 Tractor and Baler Automation. Paired with a Puma or Maxxum tractor featuring a CVXDrive continuously variable, PowerDrive powershift or ActiveDrive 8 dual-clutch transmission, this system controls the tractor stop, bale wrap and bale-eject functions without operator input.

Baler Automation can help reduce bale cycle time, minimize operator stress and increase productivity, even with a less-experienced operator.

Australia's First Steiger Quadtrac Tractor Comes Home

Late in December 1998, a Case IH 9380 Quadtrac tractor drove off the assembly line at the Case IH Fargo Manufacturing Operations in Fargo, North Dakota.

It was destined for Australia, as the first Quadtrac tractor to arrive "down under." There, this innovative new tractor made the rounds as a demonstrator unit, displaying the unique advantages of the four-track system.

It found a home on a 20,000+ acre small grains and lentils farm. It earned its keep primarily pulling large seeders and moving large grain storage modules the growers use for short-term in-field storage.

Even in dry Australia, the Quadtrac tractors offer advantages. "In this Mallee region of Victoria we have undulating hills with red loamy sand soils that pose challenges for wheel tractors," says Andrew Jolley, a salesman for Case IH dealer Sunrise Ag in Mildura, Australia, and familiar with this particular tractor's history.

"Often, farmers would work these hills by only going downhill, because of the loose soils. But the Quadtrac, with only 1% - 2% slip, could maintain traction uphill as well as on sidehills. It hugely increased their productivity," he says.

This original Quadtrac's performance led to this farm purchasing several more newer, larger models. It logged more than 11,000 hours before Jolley took it in on trade for a new Steiger Quadtrac.

"It didn't require much service beyond the basic maintenance, a few rollers and a set of tracks," Jolley says. The tractor wasn't babied, either, he adds. "They just got in it and drove it."

Pete McCann, general manager for the Case IH Australia/New Zealand region, recognized the significance of this special tractor. He arranged for professional restoration and set it on another round of demonstrations and field days to commemorate 20 years of Quadtrac.

When another manufacturer introduced their four-track tractor, this restored 9380 Quadtrac traveled the country again on another round of field days. "It displayed Case IH four-track roots," Jolley says.

After those tours, the tractor headed back across the ocean more than 8,000 miles to its birthplace in Fargo where it's displayed along with other notable products from the Fargo plant.

"This tractor is a testament to the values of Innovation, Quality and Service at Case IH, and to the global reach of Case IH equipment produced here in Fargo, North Dakota," says Adi Garg, Fargo plant manager. "We're glad to have it back home."

CNH Industrial Announces "Transform 2 Win" Strategy

CNH Industrial, parent company of Case IH, has announced a new business plan and presented a detailed strategy designed to transform the company's structure and performance to empower its five operating segments to achieve their full potential.

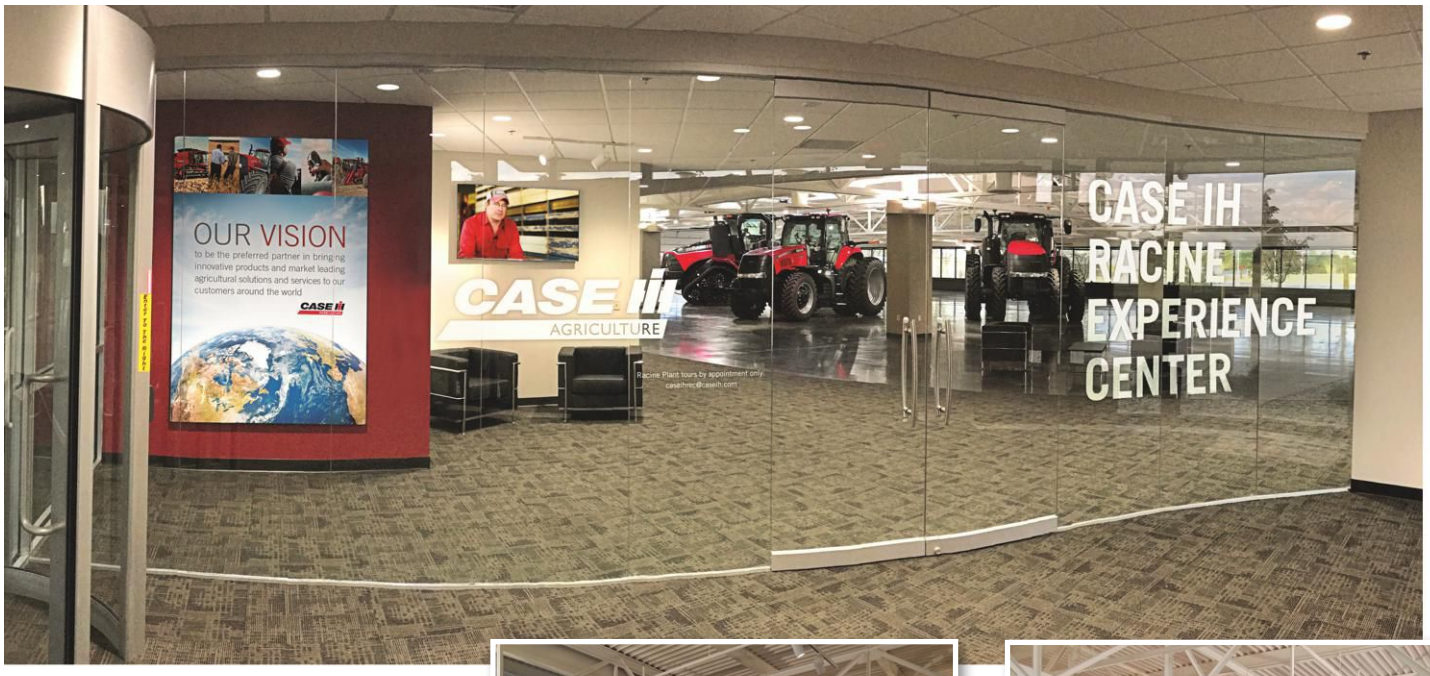
The "Transform 2 Win" plan will see CNH Industrial separate its "On-Highway" (commercial vehicles and powertrain segments) and "Off-Highway" (agriculture, construction and specialty segments) into two listed entities, each a world leader in its business.

This decision follows the completion of a deep portfolio review process, taking into account, among other things, strategic, investor and synergy considerations. This review highlighted that the "On-Highway" and "Off-Highway" businesses have diverging regulatory and customer requirements and are impacted differently by the accelerating industry megatrends which include digitalization, automation, low/zero-emission propulsion and servitization. The spin-off of these businesses will maximize management focus and flexibility and align investment priorities and incentives to better meet respective business needs and optimize cost and capital structures.

The "On-Highway" company had 2018 revenues of $13.1 billion. Its brands include IVECO, IVECO BUS, Heuliez Bus and FPT Industrial. FPT Industrial will remain a key supplier to the "Off-Highway" business through a long-term supply agreement.

The "Off-Highway" company, with 2018 revenues of $15.6 billion, will be predominately an agriculture company with its brands of Case IH, New Holland Agriculture and STEYR. Additional brands in this business include Case Construction Equipment, New Holland Construction and ASTRA heavy-duty quarry trucks.

Full implementation of this new plan is expected by the end of 2022.



Racine Experience Center Celebrates Magnum Tractors

Case IH plant tours are a popular way for producers to see world-class manufacturing and quality control in the production of Case IH Magnum and Steiger series tractors and Axial-Flow series combines.

The new Case IH Racine Experience Center provides an added dimension to tours of the Racine Manufacturing Operations in Racine, Wisconsin. Case IH Magnum series tractors are assembled here along with transmissions, axles and hydraulic valves for other Case IH equipment.

As the home of Magnum tractors, the Racine Experience Center displays the progression of these high-horsepower row-crop tractors that are shipped from Racine to agricultural regions throughout the world.

A perfectly reconditioned Magnum 7130 represents the first generation of this line of tractors that set new standards for row-crop tractor power, comfort and styling.

An International 5488 tractor is featured as the last International tractor to come off the assembly line at the International Harvester Rock Island, Illinois, factory in 1985 prior to the combining of Case and International Harvester.

There's also an International 1586 tractor, representing the 86 series tractors built from 1976 to 1981.

A classic "Spirit of '76" Case 1570 tractor represents the Case side of the family and displays the special stars and stripes finish that celebrated the United States Bicentennial year of 1976.

Another model that harkens to Case IH's deep agricultural roots is a 1913 Case steam engine. Case developed the first self-propelled traction steam engine in 1876 and soon became the world's largest producer of agricultural steam engines. Peak production was in 1911, with nine models from 18 to 110 hp; the company ceased steam engine production in 1924.

Just a few steps away from the steam engine, but a giant leap in technology, sits the Case IH Autonomous Concept Vehicle. Based on a Magnum tractor, it was introduced in 2016 with a sleek cabless design to emphasize its capability of fully-autonomous operation. Based on a Magnum tractor, this one-of-a-kind tractor is displayed at the Racine Experience Center. Other Case IH Magnum tractors equipped with various autonomous systems are undergoing field testing and ongoing evaluation and development.

Various displays and video screens throughout the Center add to the Case IH Magnum tractor story and provide a look at future Case IH automation possibilities. Case IH merchandise and apparel is available, including items exclusive to the Racine Experience Center.

Tours are offered for the Racine Manufacturing Operations (Magnum tractors), Fargo Manufacturing Operations (Steiger tractors) and the Grand Island Nebraska Operations (Axial-Flow combines). Contact your Case IH dealer to schedule a trip to view your specific tractor or combine being assembled.

General tour information is available at
CaseIH.com>Connect With Case IH>Plant Tours

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