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FARM FORUM

CASE IH AGRICULTURE

EFFICIENT DECISION

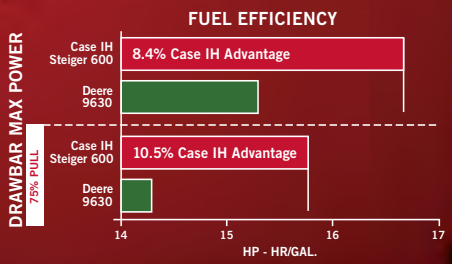
WHY CASE IH CHOSE SCR ONLY

NEW STEIGER ROWTRAC

A NEW OPTION FOR ROW-CROP GROWERS

WE SET THE STANDARD FOR EFFICIENT POWER WHILE OTHERS WERE STILL DECIDING WHAT THE STANDARD WAS.

While some manufacturers are just moving to SCR (Selective Catalytic Reduction) technology to meet fuel and emissions needs, Case IH has been supporting it since the beginning. And with over 13,000 tractors in the field, our SCR track record is proven. In fact, in recent independent tests*, the Steiger® 600 set a record for drawbar horsepower and fuel efficiency, outperforming the Deere 9630 across the entire powerband. To learn more about how you can be ready with the proven leader, visit **caseih.com/efficient power.**



BE READY.

EfficientPower EP

*Steiger 600 (Nebraska test 2011, November 2011), drawbar maximum power at 16.69 hp-hr/gal., and 75% of pull maximum power at 15.77 hp-hr/gal., compared to Deere 9630 (Nebraska test 1926, November 2008) drawbar maximum power at 15.39 hp-hr/gal;., and 75% of pull maximum power at 14.27 hp-hr/gal.

CASE IH AGRICULTURE

ON THE COVER:

The new Steiger Rowtrac tractor brings the performance advantages of the Quadtrac four-track system including superior traction, reduced soil compaction and a smooth ride to growers working in rows as narrow as 20 inches.

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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MEETING THE CHALLENGES

The challenges of providing food for a growing global population have come into sharper focus as the effects of this year's widespread lack of moisture unfold.

Every year poses some type of crop production challenge, somewhere, that serves as a reminder of the need to have equipment and systems in place to get crops planted, nurtured and harvested in the most timely and effective manner to help them reach their maximum potential.

That's the reason behind the Steiger Rowtrac tractor pictured on this issue's cover. It's designed to be a key component for row-crop growers who want to create the best possible environment for crops planted in narrow rows for higher populations and potentially higher yields.

It does so by combining the Quadtrac tractor qualities of good overall balance and minimal soil surface disruption with new long narrow treads that put maximum power to the ground with a light footprint. Yield-limiting compaction is reduced; and there's ample horsepower available to handle the biggest planters.

The Steiger Rowtrac tractors, with their Efficient Power Tier 4A engines, are the latest example of Case IH equipment and systems designed to help you be more productive and efficient.

You've heard a lot about the Case IH Tier 4A solution using Selective Catalytic Reduction (SCR) rather than Exhaust Gas Regeneration (EGR). This concept of a second fluid – DEF – was new to the North American farm equipment market when we introduced it on higher horsepower equipment beginning in 2011.

We knew it was the simple and more efficient option for meeting Tier 4A requirements, and it has proven to be the smart solution. Reports from hundreds of owners compiling more than 3 million hours with Case IH Tier 4A equipment continue to confirm the overall performance improvements.

Case IH is the leader in SCR technology. And, Case IH will meet the more demanding Tier 4B/Final requirements beginning in 2014 using SCR only, no exhaust gas recirculation, particulate filters or regeneration. We can do so because of our experience with SCR and the relationship with CNH corporate partner FPT Powertrain Technologies.

The Case IH SCR-only solution for Tier 4B/Final sustains the performance gains we see today with the Efficient Power Tier 4A engines. It will stand apart from others in the industry who will use a hybrid technology of SCR and EGR, and is protected by eight patents.

Equipment innovations such as the Steiger Rowtrac tractor and our Tier 4 solutions backed with a superior and well-capitalized dealer network will help you meet the challenges you're facing now and into the future. We will help you **Be Ready**.

Jim Walker

Jim Walker
Vice President
North American Case IH
Agricultural Business

Visit Case IH on the World Wide Web at www.caseih.com.

EFFICIENT DECISION

The Tier 4A emissions requirements that took effect in 2011 for off-highway diesel engines set stringent new requirements for particulates and nitrogen oxides. There were basically two approaches to meet them: Cooled Exhaust Gas Recirculation (CEGR) or Selective Catalytic Reduction (SCR).

Case IH chose SCR for its proven performance and simple execution. It was a major decision that has proven to be the best solution. Here's a look at the discussions and resources that helped the company confirm its decision.

Learn more about Case IH Efficient Power and the SCR advantage at www.caseih.com/efficientpower.

LOWER HP CASE IH ENGINES CONTINUE WITH EGR

Case IH has selected SCR for its higher horsepower engines, where the performance improvements, fuel efficiency gains and reduced heat management issues are significant.

Case IH equipment using engines under approximately 100 hp continue to use exhaust gas recirculation because their emissions requirements are less stringent, there is less room for the SCR equipment, and these lower horsepower engines use less fuel which reduces the fuel savings advantage of SCR.

As Case IH engineers and product planners discussed ways to meet the Tier 4A emissions standards that would take effect in 2011, the advantages of being aligned with a global engine manufacturing group became clear.

Engine manufacturer FPT Powertrain Technologies is a sister company to Case IH and had been providing the 8.7- and 12.9-liter engines used in Magnum and Steiger tractors and Axial-Flow combines, beginning in 2003 with the Axial-Flow combines. These engines were building a good reputation for power, reliability and fuel efficiency here in North America.

In Europe these engines, along with other FPT models, were meeting emissions standards that were more stringent than the proposed Tier 4A requirements using a system called Selective Catalytic Reduction (SCR).

The SCR system included treating the exhaust with a urea solution called Diesel Engine Fluid, or DEF, after the exhaust has left the engine. This initiates a chemical process in the SCR chamber that transforms nitrogen oxides (NOx) into harmless nitrogen and water vapor. Because this takes place post-combustion, there's no need to manage emissions in the engine; the engine can perform at its maximum efficiency.

This differed from the exhaust gas recirculation (EGR) approach North American ag equipment manufacturers, including Case IH, were using to meet the prior Tier 3 standards by recirculating approximately 10 percent of exhaust gas back through the combustion cycle. Doing so met Tier 3 requirements by reducing levels of NOx. It also reduced combustion efficiency, with a slight decline in power output and a slight increase in fuel consumption. Cooling system capacity had been increased to handle higher heat levels.

These European engines were meeting the stricter emissions standard using SCR and DEF instead of EGR. And, they were showing better fuel economy and running with greater overall efficiency than their North American counterparts using EGR to meet the less demanding Tier 3 requirements.

The performance and reliability reports have been impressive.

To the Case IH engineers, SCR, rather than EGR, began looking like the better option for meeting Tier 4A with the FPT engines here in North America.

"We were intrigued," says Brad Lukac, Case IH Engineering Product Manager for 180 to 370 hp tractors. "We were impressed with the performance and durability we were seeing from the FPT engines in the Magnum, Steiger and Axial-Flow applications under Tier 3 here in North America. The opportunity to meet Tier 4A with even better performance using SCR was compelling."

The other option to meet Tier 4A – CEGR – would involve increasing the percentage of exhaust gas recirculation from about 10 percent to nearly 30 percent, plus adding a particulate filter which requires frequent regeneration at temperatures exceeding 1,200 degrees F.

"The 10 percent EGR we were running to meet Tier 3 was about as high as we wanted to go with our high horsepower engines. Going to a higher percentage would mean having more heat to manage, and combustion efficiency drops off as the percentage of exhaust gas increases," Lukac explains.

"Even before we seriously considered SCR, we had reservations about increasing the percentage of EGR to meet Tier 4A. From an engineering standpoint, there's a lot working against higher levels of EGR."

The more the Case IH team evaluated the SCR approach, the more sense it made. Another key advantage was proven performance. In Europe, engines using SCR began being used in 2006 on heavy-duty trucks, including vehicles powered by FPT engines.

"There really weren't any issues," says Lukac. "The FPT engines performed well and operators reported increased fuel economy."

For the North American ag market, Case IH engineers and product managers knew managing DEF would be a new variable. The fluid is consumed at 3 to 7 percent of fuel used, and needs to be readily available; engines will only run in a "limp home" mode without DEF.

"The issue of the 'second fluid,' being DEF, was a big point of discussion for us," recalls Lukac.

"But ultimately, we decided SCR offered so much more value to our customers, that any inconvenience of including DEF as part of refueling would be more than offset by the performance advantages."

"From an engineering standpoint, there's a lot working against higher levels of EGR."

Because of their performance improvements, Case IH Tier 4A equipment carries the "Efficient Power" label. The first Case IH Efficient Power tractors went into service in early 2011. By mid-2012, hundreds of Tier 4A Case IH Magnum, Steiger and Puma tractors have collectively run thousands of hours in all types of working conditions.

The performance and reliability reports have been impressive. Initial concerns about DEF cost and availability have faded as the fluid is now used by many new heavy-duty trucks and diesel pickups, and its cost is similar to diesel fuel.

Because EGR is totally eliminated from the Case IH Tier 4A engines, the engine oil stays noticeably cleaner, much longer. As a result, engine oil change intervals have been extended from 300 hours to 600, saving time and money. Even Tier 4A owners who continue to prefer more frequent changes say that the extended recommended change intervals gives them more latitude in scheduling their maintenance.

But the big story is fuel efficiency. Tractors, combines and sprayers using the Case IH Efficient Power engines have higher horsepower and are more fuel efficient compared to the models they replace.

Bob Kostesky, a farmer in Rossburn, Saskatchewan used two Tier 4A Steiger tractors, a 550HD and a 500HD pulling 64- and 54-foot air drills to seed his 2012 crop. His previous tractors were a Steiger 535 and a 485.

"We seeded 740 acres with 275 gallons of fuel. That works out to .37 gallons per acre," Kostesky says. "This is considerably better than the older models."

Tier 4B Final regulations take effect for farm equipment over 174 hp beginning in 2014, and for farm equipment between 75 and 173 hp beginning in 2015. Case IH will meet the Tier 4B requirements using SCR technology, exclusively. As with the current Case IH Tier 4A models, the Tier 4B engines will not require regeneration of particulate filters or any EGR. "For Case IH customers who have purchased our Tier 4A equipment, there will be no additional requirements beginning in 2014," explains Lukac. ■

SCR Savings Calculator: http://www.caseih.com/en_us/Efficient-Power/Pages/scr-fuel-savings-calculator.aspx

THE ONLY THING OUR COMBINES LEAVE BEHIND IN THE FIELD IS THE COMPETITION.

The original Axial-Flow® combines made the first big step in the rotary combine revolution. But leaders don't stand still. Today, Case IH is setting the standard for Efficient Power through our proven SCR technology that gives you increased productivity on less fuel. All while meeting your capacity and adaptability needs. Not to mention delivering more grain at a higher quality. To learn more about how you can be ready with the proven leader, visit **caseih.com/efficientpower.**

BE READY.

THE INDUSTRY'S BEST CAB JUST GOT BETTER.

INTRODUCING THE TRUE MOBILE OFFICE AXIAL-FLOW COMBINE CABS FOR 2013

Guided by our Customer-Driven Product Design (CDPD) process, Case IH has taken the largest, most comfortable combine cab in the industry and made it even better. The redesigned Case IH cab provides the ultimate in convenience, comfort and productivity for your office in the field.

Tailor the cab to your needs with a choice of either deluxe or luxury versions, as well as cloth or leather seating options.

MOBILE OFFICE

- Enhanced, slim Multi-Function propulsion handle moves with the seat and controls most vital functions. Multiple settings for different crops and conditions are easily saved for future use.
- Phone cradle keeps smart phone within easy reach and legible from the seat and includes an iPod® plug-in.
- Instructional seat folds down to provide a handy work surface and opens to a portable fridge for food and beverages.

LONGER AUGERS

- Powered grain tank extensions or covers are available on all models.
- Longer unloading augers on the 230 series extend up to 34 foot to ensure a comfortable distance between the header and grain cart while unloading on the go.
- Two folding auger options on the 230 series provide easier transport and storage.
- New pivoting spout on the 230 series adjusts the flow of grain up to 3 feet without changing the speed of the grain cart or combine.

THIS IS WHAT LEADERSHIP LOOKS LIKE

The redesigned Case IH cab provides the ultimate in convenience, comfort and productivity for your office in the field. For more new features and all the details on the new Axial-Flow cabs, see your Case IH dealer.

TAKING PRIDE

A MANITOBA FAMILY CONTINUALLY INVESTS IN IMPROVING THEIR CROP PRODUCTION CAPABILITIES

A lifetime of farming presents a lot of milestones as enterprises change, generations evolve, and new equipment and facilities come into play.

For Bob Kostesky, a new shop and equipment storage building completed last year is a significant milestone as it's been on his list of things he wanted to accomplish for years.

Bob farms just under 7,000 acres of wheat and canola, plus peas, oats and barley near Rossburn, Manitoba, with his wife, Barb, and son, Bob Jr. His brother, Ron, helps part-time, and an employee, Darren Bilinsky, has been with them full-time for several years.

In fact, it was the labor situation that encouraged Bob to commit to building the 80- by 120-foot geotherm-heated building. "In my operation, there's not a lot to keep a person employed for the winter. We saw an opportunity to have a warm indoor place to do some equipment work during the winter, and be able to keep busy."

He envisions doing equipment setup work for several area dealerships and neighboring farmers. Already, he's hosted a sprayer clinic where big sprayers can be extended for viewing and training indoors.

From his first crop in 1974, Bob has gradually expanded the operation by renting and purchasing land as it became available.

One turning point came in 1991 when he got out of livestock to focus exclusively on grain. "When I started out we had cattle, we milked cows, we had pigs, chickens … it was a true mixed farm.

"It was getting difficult to concentrate on doing a good job with everything, and I liked working with grain better than livestock," he says.

His focus on grain has included producing identity-preserved canola and wheat for buyers in Canada and England. Maintaining crop segregation is a key part of the process. When the rail line running through Rossburn was abandoned, Bob purchased the grain elevator in town, which gave him 130,000 bushels of capacity in multiple bins. He's also structured his on-farm storage to easily handle grain segregation.

After about a decade of no-till seeding, Bob says the region's recent wet weather has resulted in him returning to tillage. "With these really wet conditions, we're doing a lot of tillage just to get rid of the ruts in the field and help dry out the land," he explains. The work includes heavy harrowing to manage thick straw residue and deep tilling to deal with compaction and ruts.

Bob Kostesky Jr. seeded with a Steiger 485 prior to running this Steiger 550. "It's pretty similar," he says of the 550, adding that the Multicontrol handle now operates the No. 1 remote. "My hand doesn't have to come off the control other than to turn the air seeder on and off," he says. "There's lots of leg room, it's quiet and very comfortable to ride in."

The area Bob farms in the Parkland Region of southwestern Manitoba has rolling, productive soils but a short growing season. "If we get 130 frost-free days, we're doing well," he says.

For that reason, along with the higher quality requirements of the identity-preserved crops, timeliness in the field is critical to him. He's based his equipment selection on machines that will perform with maximum capacity and reliability.

For example, he has run several brands of combines over the years, staying with one until he sees a better option.

When the AFX Series of Case IH Axial-Flow combines were introduced in 2003, Bob rented a new AFX 8010 and ran it alongside the machine he owned. "It had a little more capacity, and it was quieter," he says. That performance led

Bob Jr. and Bob Kostesky and employee Darren Bilinsky.

to him switching to the Case IH combines, and he currently runs a pair of Axial-Flow 9120s.

"We're happy with the capacity," Bob says. Dealing with tough, heavy straw is the big challenge he faces, both getting the grain threshed and spreading the residues, and these combines perform well on both counts. "They have the MagnaCut choppers on them, and they do a good job of chopping." He says they easily cover the width of the 30-foot headers.

Bob's move into Case IH tractors followed a similar path. After experiencing major powertrain repairs in two tractors he owned, he purchased his first Case IH tractor, a 9270 Steiger. "That was my first Steiger tractor and I've never looked back. I've been quite happy with them."

He runs two tractors matched with two air seeders. His current tractors, a Steiger 550HD and a Steiger 500HD, pull 64- and 54-foot air drills. He has been trading tractors every two years; these replaced a Steiger 535 and a 485. Because he does a bit of scraper work for land improvement, Bob has opted for the HD versions for his past several models.

"We try to farm as best we can and take a lot of pride in what we do."

These are his first Tier 4A tractors, and after about 100 hours on each one, he's impressed with the new Efficient Power engines using selective catalytic reduction (SCR) in place of exhaust gas recirculation (EGR).

"With anything new there's a bit of hesitation," Bob says, regarding purchasing the Tier 4A tractors. "I wasn't sure about dealing with DEF, but from what we've seen so far, it's been really good."

They are seeing a distinct fuel economy difference with these Tier 4A tractors vs. the previous models. "Pulling the drills, we used to run 18 to 20 gallons per hour; now we're running 13 to 16 gallons.

"Conditions aren't as wet as they were last year, so maybe it's not pulling quite as hard, but from what we see, we are definitely ahead of the game, even putting the DEF in. The reduction in fuel usage is quite remarkable."

He says they have been filling the tractors' DEF tanks after every two to two and a half fills of diesel fuel. "It's not as big of a concern as we thought," he says.

Both Steiger tractors are equipped with autoguidance, which the Kosteskys have used for several years. After dealing with some signal outages last year with their WAAS signal – attributed to solar flares – they have upgraded to a more accurate and stable cellular-based signal. And, this signal gets them set for the next level of information interconnectivity as Case IH expands its AFS system to include the AFS Connect platform including telematics.

"With autoguidance, the fatigue level is so much less, and the acres seeded are a lot more consistent, without overlaps or misses. When the system was down, I had to remind the guys that yes, you can still drive the tractor using the steering wheel," Bob says.

They made the autoguidance signal switch at the recommendation of their Case IH dealer, who has played a key role in helping the Kosteskys stay current with technology – and maximizing uptime. "Our dealer's been great," Bob says. "If we have a problem, they have a mechanic here right away. That is another reason why we switched to red; the service has been great."

With the new building completed and a current line of high-capacity equipment in his yard, Bob feels good about the operation he and his family have built. "As a young man, I had my mind set on where I wanted the farm to be, and I think I'm there," he says.

He and Barb have more time to spend with their family, including their daughter, Courtney, and 3-year-old granddaughter Layla.

"We try to farm as best as we can and take a lot of pride in what we do," Bob says. ■

See more of the Kostesky's operation in this issue's online edition at www.caseih.com.

GROW PRECISELY WITH A GROWING PARTNER

FARM SMARTER WITH CASE IH ADVANCED FARMING SYSTEMS

Whether you're applying fertilizer, strip tilling or even harvesting in the dark, Case IH Advanced Farming Systems (AFS) has the perfect guidance solution for you. Our lineup of the industry's most accurate autoguidance systems is compatible with the full range of correction signals to help you be ready – saving big on input costs, improving yield and reducing operator fatigue. And Case IH continues to expand its AFS commitment even more, adding personnel and re-engineering our customer support team to better serve you.

All tech, all the time

Imagine calling tech support well into the night as you deal with a balky monitor in your planter tractor. And, imagine getting a live person on the phone who's not only there at that late hour, but who fully understands your equipment and your urgency.

That's a reasonable expectation, and it's the level of service Case IH has targeted with the development of its new AFS Support Centers.

As precision farming and guidance technology becomes more ingrained into all aspects of crop production, Case IH is strengthening the customer support of its Advanced Farming Systems (AFS) products and services.

Set into operation in March of this year, four tech centers around the globe provide live technical support for Case IH customers 24 hours a day, seven days a week, 365 days a year.

Tech support has existed in various forms for AFS products dating to the introduction of the first AFS site-specific yield monitors in 1995. Now, recognizing that these systems for guidance, monitoring, control and analysis are fully integrated into most equipment, Case IH has evolved its support services with people who understand the entire system and what the user needs to accomplish.

The AFS technical support people are CNH employees. In addition to staffing telephone support, these specialists spend time in the field, being hands-on with AFS equipment in all stages of the crop production cycle. They also conduct AFS customer training events at Case IH dealers.

"We're putting the producer first. We want people on the phones to understand the customers' needs," emphasizes Trevor Mecham, Case IH AFS marketing manager.

The North American support center is purposely located on the property of the CNH Engineering Center in Burr Ridge, Illinois. "Our support people can easily interact with Case IH engineers and product managers regarding new technologies and applications," Mecham explains.

AFS Academy

AFS technology training is being managed under the broader umbrella of the AFS Academy. This new initiative includes training events for Case IH AFS owners and dealers, as well as Case IH product specialists, regardless of the specific equipment they represent.

"AFS technology is being adopted at some level on nearly every product. Every Case IH product specialist can speak to how AFS interacts with his or her specific line of equipment," Mecham says.

Just as technology is evolving, the Case IH AFS Academy training is designed to serve users with varied levels of experience. There are presentations for users just getting started as well as for experienced people wanting to understand the systems' full potential.

"We are getting a lot more direct and specific with AFS training," Mecham says. For AFS System owners, this includes Web-based classes, instructor-led training at Case IH dealerships and intensive three-day regional instructor-led sessions.

AFS Certified Dealers

Another new user-focused development with AFS is the initiation of the AFS Certified Dealer program. Dealers earn the certification and the distinct logo through commitments such as having a dedicated AFS specialist and others who have gone through the academy plus additional training events.

"These dealers have invested in the future of AFS products. Technology plays a huge role in gaining and supporting equipment sales now, and AFS Certified dealers have taken the extra step to provide best-in-class service," Mecham says.

The future direction for AFS products, Mecham adds, is for more overall system integration and easier, more intuitive use. Recent additions, such as the AFS Glonass 372 receiver and AFS Connect Manager and AFS Connect Executive, with their telematics capabilities are examples.

"You're going to see more opportunities for machine optimization. You'll be able to make more accurate financial plans, utilize equipment more efficiently and get every inch of ground managed and planted," Mecham explains.

And while the hardware, software and related technology will continually improve, Mecham reminds that good management decisions begin with accurate yield maps.

"Yield maps may be the most important asset you have," he says. "We are developing new data management tools, but you need good information to analyze. Good yield maps are your key to the potential payoff from precision farming." ■

The new AFS Connect Manager package with its telematics capabilities is an example of AFS products designed to give you more opportunities for machine optimization.

Learn more about Case IH AFS at www.caseih.com/afs.

NEW BALERS DESIGNED FOR PRODUCTIVITY

NARROWER TRANSPORT WIDTH, SAME SIZE BALES

A new series of Case IH large square balers is designed to maximize time in the field with features focused on increasing crop throughput and making service and transport more efficient.

"It's all about maximizing the baling window," explains Zach Hetterick, Case IH hay and livestock marketing manager. "These new balers take reliability and performance to the next level, and offer new technologies that will help progressive hay producers be more efficient."

The distinctive new styling is the first signal that these balers were developed with innovative customer-driven design.

The dramatically sloped hood lets debris slide off, rather than collecting on the machine, and its tapered design improves visibility to the sides and rear. The hood and the side panels are formed from durable composite materials that reduce weight, resist dents and retain their gloss finish. Large swing-out doors provide quick unobstructed access to maintenance points and twine storage.

Beyond the exterior, the new LB4 Series balers have refinements aimed at improving crop throughput.

"We call it 'matched capacity,'" Hetterick says. "All systems are sized to work together, efficiently."

The pickup system illustrates this new change. It's now the width of the bale chamber, so the crop transitions smoothly into the chamber. Reshaped side shields and flares further improve crop flow.

Overall, the LB4 Series pickups are more robust, with heavier-duty, more durable components used throughout for increased uptime and to better handle a wider range of crops and conditions. All models come with a slip clutch as standard.

"There's an increased interest in new types of crops for biomass, and these balers have the strength and flexibility to meet these new opportunities," Hetterick says.

The flywheel on these new balers is larger, yet a bit lighter, than the flywheel on previous models. It runs faster for increased plunger speed – 48 strokes per minute vs. 42 strokes. The speeds of other components, including the

The large easy-opening hood and side panels provide access to all service points. Up to 16 twine balls can be carried on each side.

pickup, the rotor/packer and the stuffer have all been increased. The result is an increase in bales per hour capacity of up to 20 percent compared to the LB3 Series balers, along with increased bale density up to 5 percent.

The LB4 Series balers continue to use the proven and effective precompression chamber feeding system and best-in-class Case IH knotters. New shielding and repositioned fans minimize debris buildup around the knotters.

A mistie detection system is standard on all models, alerting the operator via the monitor and flags on top of the knotters.

The popular packer cutter and rotor cutter models continue to be offered to deliver highly palatable ready-to-feed forage and silage. Improvements in these models provide smoother crop flow plus the same crop cut length options with fewer knives and rotor teeth compared to the LB3 Series. A new removable feeder channel floor liner adds flexibility to handle rough crops such as corn stalks, straw and sugarcane.

Model	Bale size (in/cm)	Bale length (in/cm)	Maximum bale weight (lbs/kg)	Minimum PTO hp
LB334 Standard	32 x 35 in *80 x 90 cm*	3.9 to 9 ft *1.2 to 2.75 m*	1,125 lbs *510 kg*	105
LB334 Packer Cutter	32 x 35 in *80 x 90 cm*	3.9 to 9 ft *1.2 to 2.75 m*	1,250 lbs *567 kg*	110
LB334 Rotor Cutter	32 x 35 in *80 x 90 cm*	3.9 to 9 ft *1.2 to 2.75 m*	1,300 lbs *590 kg*	130
LB434 Standard	47 x 35 in *120 x 90 cm*	3.9 to 9 ft *1.2 to 2.75 m*	1,600 lbs *726 kg*	125
LB434 Rotor Cutter	47 x 35 in *120 x 90 cm*	3.9 to 9 ft *1.2 to 2.75 m*	1,850 lbs *839 kg*	150

Recognizing that larger farms and custom operators spend a lot of time on the road with their balers, Case IH made efficient transport a priority. In addition to the overall improved operator visibility offered by the sloped hood, the LB4 Series balers are substantially narrower, at 8.3 feet overall width.

The new LB4 Series balers deliver the next level of hay production and management technology. Choose from two full-color ISOBUS-compatible monitors: the AFS Pro 300 or the full-featured AFS Pro 700. Both provide information on bale weight, bale moisture, tags and preservative application.

The monitors can also display live images from an optional rear-facing camera.

Independently of the monitors, these balers offer the option of logging detailed site-specific harvest information onto a USB drive which can be imported into an Excel table. When equipped with a GPS receiver, the data includes:

- Date and time
- Longitude and latitude
- Job or field name and crop
- Bale count number
- Bale moisture
- Bale length and slices
- Bale weight and density

These new models are fully compatible with Harvest Tec applicators to apply Thirty Plus Preservative.

They can also be equipped with bale accumulators from PhiBer. In addition to providing improved harvest efficiency, the accumulators can reduce wheel traffic across the crop, which can benefit crop regrowth. ■

Learn more about Case IH balers at www.caseih.com > products > hay & forage

SMALL AND SIMPLE

A NEW YORK DAIRY TAKES A LOW-OVERHEAD APPROACH TO PROFITABILITY

In an era when farming is all about "economies of scale," Dennis Emke and his wife, Lorrie, have focused on the "economy" part of their operation and have established a small dairy that works exactly the way they want it to.

"We bought this farm in the spring of 1990, and I never really wanted to get bigger. To me, it just seemed like more headaches," says Dennis Emke, of Cherry Creek, New York.

Like a lot of farmers starting from scratch, Dennis counted on a few years of full-time off-farm employment to help fund the farm. The 600 acres they purchased wasn't costly, with nearly 450 of woods and the balance in tillable, hilly ground, but the interest rates were "sky high" at the time, Dennis recalls.

When interest rates dropped, they kept paying the previous amount. That type of frugality infused most every aspect of their operation, from keeping a grade herd, rather than a registered one, to selling some standing timber from their woods when they needed a little extra cash. Most of their investments focused on modest improvements in making feeding, cleaning and milking the herd easier for Dennis and Lorrie to handle themselves.

Today, the Emkes milk 35 to 40 head of farm-bred and raised Holstein and Jersey cows, producing about 2,000 pounds of milk per day. "We don't hammer them hard, and it's just Lorrie and I who do everything."

With the farm paid for more than 10 years ago, Dennis says they have gradually upgraded their equipment and facilities, as they intend to keep the herd at the same size.

"We've always had older equipment, and we decided it was time to start buying new. I'm no mechanic," he says. "I need things to run right."

Dennis had owned several foreign-brand tractors that had been popular in the Northeast. As their dealer support declined, he bought one North American brand tractor. In spite of that company's reputation, he wasn't pleased with the tractor's performance or the dealer's service.

An avid snowmobiler, Dennis' first exposure to a Case IH tractor came when he ran the local snowmobile club's trail groomer – a Puma specially equipped with tracks, rather than tires.

"I really enjoyed driving that thing," he says. That experience turned into the purchase of his first Case IH tractor, a Puma 125. At 105 PTO hp, it had about 10 hp less than the tractor he

Two recent additions to the Emkes' farm include a well-equipped Farmall 95U used for daily chores, and a Farmall 75C whose duties include raking hay and pulling hay wagons. They also took advantage of a Case IH program for $1,000 off the purchase of a RAM truck.

Dennis Emke's first experience in a Puma tractor was running the local snowmobile club's Puma tractor used as a trail groomer. He uses his Puma 125 for plowing and running a forage chopper.

replaced, but was substantially heavier, a difference he noticed pulling his forage chopper on the hilly ground. "It's heavy, but it doesn't push this Puma around," he says. "This is a much heavier built tractor."

Dennis says the overall convenience and power of the Puma has impressed him. Features such as the automatic temperature control in the cab, the ease of its full powershift transmission and the detailed information available on the instrument display are helpful. The Puma's MultiControl handle puts multiple functions, including engine speed, gear selection, direction and hydraulic control, at his fingertips.

The main duties for Dennis' Puma 125 include plowing using a 5-bottom plow with 18-inch shares, running about 5.5 mph, and pulling silage wagons. "It walks away with that plow," he says. And, the fender-mounted PTO control is useful for unloading the silage wagons, he adds.

The second new Case IH tractor to arrive on the Emkes' farm in the last two years came after Dennis' Case IH dealer told him of a well-equipped Farmall 95U that had been ordered but not purchased. "I was looking for another tractor to use on my manure spreader. I wasn't looking for a new tractor, but this one fell into place."

At 80 PTO hp, the Farmall 95U makes an ideal chore tractor for the spreader. The cab provides a comfortable workplace for a tractor that's used 365 days a year through all the weather New York state can deliver. Being able to access the cab through either side is a plus for working in tight spaces.

As the Emkes continued their upgrades, Dennis wanted to get a small tractor for raking hay and pulling hay wagons. He ordered a cab-equipped two-wheel drive Farmall 75C. "I wanted something pretty economical with a cab," he explains. "It's going to be a nice tractor for us."

Part of the Emkes' interest in having cabs on their chore tractors is because Lorrie does a fair amount of the hay work. "I like for her to be comfortable in there," Dennis says.

In fact, Dennis credits Lorrie with making sure their purchases work on the bottom line, after he makes the equipment selection.

One unexpected advantage of the Farmall tractor purchases the Emkes made this last year was qualifying for $1,000 off of a new RAM truck. Dennis says he was interested in trading trucks and the $1,000 rebate helped him make the deal on a RAM 2500.

These new tractors are more fuel-efficient than the older tractors Dennis replaced, they are comfortable and dependable, and they are covered by warranty. They fit into the Emkes' plans for investments that are high-value and cost-effective.

"I am asked a lot how do we do it, just milking 35 cows," Dennis says. "Well, we worked a lot. We'd be doing chores at 2 a.m. so I could get to work at 6. Looking back, I don't know how we ever got hay crops in." Now, Dennis is on the farm full-time and Lorrie, who stayed home in the earlier years, has a job in town.

They're able to produce all their own forage, with a bit of additional rented land, and grow enough corn to meet most of the herd's needs. They've been named as a New York "Dairy of Distinction" and continue to take pride in their farm's overall appearance and herd health. And now, they're enjoying using efficient new tractors sized to meet their own specific needs.

"We've worked hard, struggled through tough times, and made things work for us without hiring others or getting bigger," Dennis says. "And, we seem to get along just fine." ■

The Emkes milk 35 to 40 head of farm-bred and raised Holstein and Jersey cows. They have built the dairy to make it easy for the two of them to manage.

See more of the Emkes' operation in this issue's online edition at www.caseih.com.

HEAVY DUTY TILLAGE

A CASE IH ECOLO-TIGER 870 DISK RIPPER SERVES WESTERN GROWERS WELL, SIZING RESIDUES, BREAKING TIGHT SOILS AND LEAVING A LEVEL SEEDBED.

About eight years ago, Dave Sparks bought a scraper to do some dirt work on a property he owned, and did a few custom jobs with it for neighboring farmers.

He had a four-wheel-drive tractor for the scraper, and saw the opportunity to put that big tractor to work for other for-hire jobs.

Custom tillage proved to be the best option, and now Sparks is covering more than 10,000 acres a year in roughly a 30-mile radius from his home in Ontario, Oregon.

Like farmers everywhere, growers in this irrigated region known as the Treasure Valley that straddles the Oregon/Idaho border are pressed for time. Having a custom operator such as Sparks come in with specialized equipment saves the growers' time and delivers productivity benefits they have not yet invested in.

Sparks built his custom tillage business using a heavy-duty disk/chisel tool designed to manage heavy residues and leave the field ready for planting.

In 2011, he replaced that implement with a Case IH Ecolo-Tiger 870 disk ripper. This new implement has improved the service he offers his customers and has helped him gain new business.

"It's a better tool," he says. "It does a better job for my customers, and because it's 6½ feet wider than what I was using, I get more acres covered, faster. I get paid by the acre, so that's better for me."

Strong, simple and flawless

The Ecolo-Tiger 870 features a strong, simple design. Up front, a heavy-duty X-frame configured with disk blades – either individually mounted 26-inch diameter blades on 15-inch spacings or gang-mounted 24-inch blades on 12-inch spacings – mix and size residues.

Next comes a staggered row of rippers, set on 24-inch spacings. At the rear, a patented leveler uses opposing disk blades to further size residues and clods.

Sparks says the result is an implement that functions nearly flawlessly even in heavy residues and on uneven field surfaces.

"I work on all the crops we grow in this area – corn, potatoes, onions, wheat, beans, triticale – and it handles them all. It's fantastic. It leaves the field smooth as a whistle." His Ecolo-Tiger 870 is the first implement in the field following most of these crops, although corn stalks are typically shredded before he works them.

Sparks says having two gangs of angled disk blades up front, compared to the single row of slicing disks on his previous implement, does a better job of shredding residues and loosens the ground prior to the ripper shanks working it.

"It's impressive to see it working."

There's also ample space after the front gangs for residues to settle ahead of the shanks.

"Since I'm 'the custom guy,' sometimes I get into the fields that nobody else wants to work, with heavy vegetation challenges. This disk, with the disk blades in front, just chews up everything that comes through it," he says.

The Ecolo-Tiger 870 comes in widths of 14, 18, 22 or 26 feet, with 7, 9, 11 or 13 ripper shanks. These shanks, with their 7-inch patented Tiger Point tips, are designed to lift, twist and roll for maximum soil fracture and loosening. They can break hardpans and help improve pore spacing in tight soils for improved air and water flow.

Sparks says he runs the ripper shanks about 12 inches deep on his first pass and 14 inches deep on the second pass. He generally makes two passes on all the fields he works to thoroughly break the tight irrigated fields and leave a ready-to-plant surface.

The leading edges of the shanks are fitted with a v-shaped replaceable wear shin, unlike the wider surface on the shanks of Sparks' previous implement. He believes the V-shaped shins pull more easily, and the wear has been superior. "After about 9,000 acres, I have not replaced a wear shin," he says.

Following the ripper shanks are patented disc levelers that are in-

Dave Sparks uses a 26-foot Case IH Ecolo-Tiger 870 pulled by a Quadtrac 600 tractor in his custom tillage business. He goes into high-residue irrigated fields and leaves them smooth, deep-tilled and ready to plant after two passes.

dexed behind each shank. They return any soil the shanks have pulled up for a smooth, level surface.

"Those levelers are a great design and are part of my selling point to the farmers. They help leave the field smooth enough to plant. Planting behind my other disk was not an option," Sparks explains.

The Ecolo-Tiger 870 is based on a strong simple design. Adjustments are easily made, and daily service is minimal. Poly bushings eliminate the need for greasing pivot points. "On my other disk, every day I used about four tubes of grease; this one takes about half that. This has some sealed bearings that only call for grease every 250 hours. That saves me time, and I can be in the field longer," Sparks says.

The Ecolo-Tiger 870 delivers substantial soil tilth improvement, and requires a fair amount of power to do so. Case IH recommends 18 to 20 PTO hp per foot of implement width to run it at its intended speed range of 5 to 7 mph.

Because he needed more power to handle the Ecolo-Tiger 870, Sparks began shopping tractors. He had owned a two-track tractor for a year, selling after finding that the two-track design wasn't suited for the extensive amount of road travel he does. And, in the conditions where he was able to approach 6 to 7 mph with his four-wheel drive tractor, he says the ride simply got too rough.

The more he learned about the Case IH Quadtrac models, including their ability to easily handle miles on pavement, he became more interested.

"I ordered a Quadtrac 600, the biggest one they make, and I absolutely love it. I couldn't have a better tractor. For what I do, it's the best tractor there is. I'm extremely happy with it," he says.

Smooth ride, big power

For Sparks, the Quadtrac 600 represents a smooth ride and big power. Each of its four tracks oscillate independently, reducing the effects of bumps in the field and on the road, and maximizing power to the ground. The cab sits on a suspension system using springs and dampers to fully isolate it from vibrations and jolts. A suspended operator's seat with active suspension further smooths the ride.

"All those things combine to give a phenomenal ride," he says. "I wouldn't go back to anything else."

Unlike friction drives, the Quadrac's positive drive system eliminates belt slippage under hard pulls or in wet conditions, and it adjusts automatically under light loads and transport to reduce wear, friction and heat. That's especially beneficial to Sparks, who at times travels several hours on the road from one job to another.

The Quadtrac 600 develops 660 peak engine horsepower. Sparks makes the most of it, pulling the 26-foot implement at 7 mph with the shanks running 12 to 14 inches deep. He averages about 17 acres per hour, and says on a good day he can do 230 acres.

His Quadtrac is a Tier 4A compliant tractor. The 12.9-liter FPT Powertrain Technologies engine uses the Case IH Efficient Power Selective Catalytic Reduction (SCR) system using DEF.

Because of the mobile nature of his work, Sparks wanted an efficient way to handle fuel and DEF. He found the solution in a new Thunder Creek fuel and service trailer that holds 990 gallons of diesel fuel and 100 gallons of DEF. He also equipped it with a combination air compressor/generator and a tool storage box. The gas-powered pump transfers up to 40 gallons per minute of diesel fuel.

"The tractor holds 470 gallons of diesel fuel, so it's good to have a fast pump," he says. "This is like a portable shop, with air and the generator for power."

Sparks has identified a good business opportunity serving farmers in his area, and the performance of his latest tractor/tillage combination has taken his service to the next level.

"The performance of this Ecolo-Tiger 870 speaks for itself. It's as good as a plow for loosening the ground, it leaves the residue on top, which is important, and it leaves the field smooth," he says.

"It's impressive to see it working." ■

See more of Dave Sparks' operation in this issue's online edition at **www.caseih.com.**

NEW STEIGER ROWTRAC TRACTORS

NEW NARROW-TRACK SYSTEM BRINGS FOUR-TRACK ADVANTAGES TO ROW-CROP AND SPECIALTY CROP GROWERS

Model	Engine hp
Steiger Rowtrac 350	350
Steiger Rowtrac 400	400
Steiger Rowtrac 450	450

For years, soil scientists have pointed to soil compaction as one of the primary controllable factors affecting plant growth and crop yields. It limits water and nutrient movement through the soil and hinders root growth.

As farm equipment became heavier, soil scientists raised increasing concerns about the degree of compaction caused by massive machines. The best solution, they said, is a "long narrow footprint." Long, because it spreads the weight over as much ground as possible, and narrow, because it impacts less of the total field surface.

The introduction of tractors on rubber tracks in the mid-1990s was a great step forward in addressing soil compaction concerns. They delivered that long narrow footprint with much greater economies of operation compared to steel tracks.

Of the two approaches to rubber tracks – twin tracks and four tracks – the four-track design offered exclusively by Case IH has proven to hold distinct advantages in overall weight distribution, ride quality, steering qualities, elimination of soil berming during turns, and power delivery to the ground on uneven terrain and when turning.

The new Steiger Rowtrac models deliver the best option to date for growers looking for a combination of power, versatility and reduced compaction.

The Steiger Rowtrac models include the 350, 400 and 450, with track width choices of 16, 18 and 24 inches to work in rows as narrow as 20 inches.

All three Rowtrac models are based on the familiar and proven Steiger and Quadtrac narrow-frame platform. The drive system uses Quadtrac components with unique new features for a narrower profile and even more precise tracking for accurate guidance in narrow rows. The wheelbase has been lengthened to 160 inches – the longest of any Steiger or Quadtrac model. This allows

FOUR BENEFITS OF FOUR TRACKS

With well over two decades of field performance behind them, the smooth-riding Case IH Quadtrac four-track system has proven to have clear advantages over two-track systems.

1. Reduced compaction. The Quadtrac design spreads weight out nearly equally over all four tracks.
2. Full power during turns. The Quadtrac articulated design allows for full power to all tracks, all the time. Two-track systems steer by varying speed and power to each track, limiting power.
3. Superior traction. Quadtrac tracks oscillate up to 10 degrees so each track maintains ample ground contact even on uneven surface conditions.
4. Minimal soil disturbance. The skid-steer steering action of twin-track tractors can disrupt the ground surface and leave large berms of soil. The Quadtrac design turns without berms, even in soft conditions.

Learn more about Steiger Rowtrac tractors at www.caseih.com/steiger.

The Steiger Rowtrac tractors have 16-, 18- or 24-inch-wide belts and a new narrow undercarriage to stay within narrow rows and handle post-emerge work such as side-dressing and cultivation. The articulated design advantages include smooth accurate steering and minimal soil disturbance during turns.

longer tracks for more contact area and maximum traction.

The ability to deliver high horsepower in this narrow-row package will benefit row-crop and specialty crop growers who want to handle post-plant operations with maximum efficiency. They offer increased capacity for dedicated strip-till operations.

All the productivity advantages of the Case IH Steiger and Quadtrac tractors continue in the Rowtrac series. There is massive three-point hitch lift capacity of up to 20,000 pounds to handle heavy mounted equipment. Hydraulic performance includes the option of up to eight remote valves, total tractor hydraulic flow of up to 113 gpm, and up to 35 gpm at a single remote.

Optional factory-installed AFS Autoguidance systems work seamlessly with these new models for sub-inch guidance with RTK signals.

As with all current Steiger and Quadtrac models, the Steiger Rowtrac tractors are powered by Efficient Power FPT engines using SCR technology to meet Tier 4A standards. ■

STEIGER ROWTRAC
'WOULD DEFINITELY HAVE A PLACE'

Minnesota farmer Frans Rosenquist, of Atwater, knows a few things about Case IH Quadtrac tractors, having owned them from their first year of production. He had a chance to see the new Steiger Rowtrac tractor firsthand earlier this year when Case IH used his farm for a photo shoot location.

"I thought that Rowtrac was a pretty awesome machine," he says. "It would definitely have a place on this farm."

Rosenquist farms about 5,000 acres of corn and soybeans on 22-inch rows. He immediately saw two potential benefits of the Rowcrop tractor.

"We'd pull the big 36-row planter with it," he says. "Right now, we pull it with a Quadtrac with the wide belts, so we are planting in the belt tracks. With this Rowtrac, I'd get the 18-inch belts which would run between the rows. In the fall, we'd put it on a grain cart and still run between the rows."

The Rosenquists included the new Steiger Rowcrop tractor in this lineup of their equipment that includes a new pulling tractor, Gold Rush. Frans Rosenquist uses Quadtrac tractors exclusively for his high-horsepower tractors. "We like these Quadtrac tractors and their articulated design," he says. "For us, the Quadtracs outperform tractors on tires."

Rosenquist says his crop consultants continually emphasize paying attention to compaction. "They want us to keep our traffic patterns limited in the field, and these narrow tracks would help. I can also see this tractor being a good fit for no-tillers who want to stay on the same row the following year."

Another advantage Rosenquist sees is the ability to adjust the track settings to meet different row centers. "I could have it set for our 22-inch rows, and at trade-in time, the dealer can have it set for 30-inch rows, or 20s, or whatever the next buyer wants. That should help for resale."

Rosenquist has three Quadtrac tractors on the farm, two Quadtrac 600s and a 450. All are Tier 4A Efficient Power models. He says after his initial hesitation about managing DEF, the second fluid hasn't been an issue, and the performance of the Efficient Power engines is impressive. "That Tier 4A engine has improved so much. We're back to some good old-fashioned horsepower," he says.

In fact, horsepower is a favorite topic on the Rosenquist farm. In his younger days, Frans was a factory-backed snowmobile racer. For the last 10 years, Frans' son, Jason, has competed in local tractor pulls, most recently running one of their totally stock Gold Demonstrator Magnum 305 tractors which they also farm with.

This year, the Rosenquists decided to step things up a bit, with Case IH Magnum-themed pro stock pulling tractor. "Dad always wanted one, and he's worked hard enough to get one now," Jason says.

The custom-built tractor is based on a Case IH 466-cubic-inch engine block built up to 570 cubic inches. Named Gold Rush, the tractor carries a custom paint job based on the Gold Demonstrator Magnum tractors' special paint scheme.

But any connection between Gold Rush and the stock Magnum 305s disappears when the starter's flag drops. "There's no comparison," says Jason. "Everything happens fast with this tractor. You have about five to seven seconds, and the run is over. It's way more of a rush."

Frans Rosenquist, center, with his son, Jason, seated, and son-in-law Brandon Barber. This is their first year with their pro stock pulling tractor, Gold Rush.

THE BATTLE FOR THE HIGHEST YIELDS BEGINS IN THE TRENCHES.

At Case IH, our engineers determined that in order to deliver consistent, uniform emergence and higher yields, a "V" shaped seed trench is clearly the best option. The "V" shaped trench our Early Riser planters create ensures unvarying depth, optimal soil-to-seed contact, even soil pressure and improved moisture conductivity each and every time. When uniform emergence is the #1 agronomic driver for productivity and profit, you can't afford to go with a planter that's second best. To learn more about how you can be ready with the proven leader, visit **caseih.com**.

BE READY.

CASE IH AGRICULTURE

TWIN-ROW PLANTERS COMING TO CASE IH DEALERS

TWIN-ROW PLANTING GIVES PLANTS MORE ROOM IN HIGHER POPULATIONS

Growers interested in twin-row planting of corn and other row crops can gain this technology through Case IH dealers beginning in early 2013.

Case IH has announced a supply agreement with the Great Plains Division of Great Plains Manufacturing, Inc. Great Plains will supply Case IH with twin-row planters to be sold through Case IH dealerships under the Case IH brand beginning in 2013.

"This agreement allows Case IH to expand our row-crop planter choices while continuing to support and expand our existing Early Riser planter line," says Bill Preller, Senior Director, Case IH Specialty Business. "We're pleased to partner with Great Plains, a leader in twin-row technology."

The advantage of twin-row planting is being able to plant higher populations while still maintaining ample row width for sidedressing, cultivating and spraying. Harvesting equipment such as corn heads that handle single rows will also handle twin-rows planted on the same row centers.

In addition to corn, twin-row planting is an option for soybeans, milo, sunflowers and cotton.

The Case IH twin-row planters to be sold through the Great Plains agreement stagger two rows of seeds based on 30-inch centers, with the seeds spaced 7 to 8 inches apart. Especially for growers seeking populations above 30,000 seeds per acre, twin-row planting lets each plant have more space.

Great Plains data shows that twin-row planting uses a higher percentage of each acre. Corn planted at 38,000 seeds per acre use 14.4 percent of a field's space per acre, whereas that same population in twin-rows covers 44.5 percent.

More space around each plant provides several agronomic benefits. Plants have more room to spread out, both above and below ground. Root masses are larger which can improve standability and stalk strength. Leaves are less shaded by neighboring plants to capture more available sunlight to encourage growth. Faster canopy development means more ground area is shaded, earlier, to retain moisture.

These factors can contribute to the potential for higher yields.

A two-year study by seed corn producer AgriGold found a positive yield response to twin-rows vs. single 30-inch rows in nearly 70 percent of 1,660 comparisons in the Corn Belt in 2009 and 2010, with populations ranging from 28,000 to 43,000.

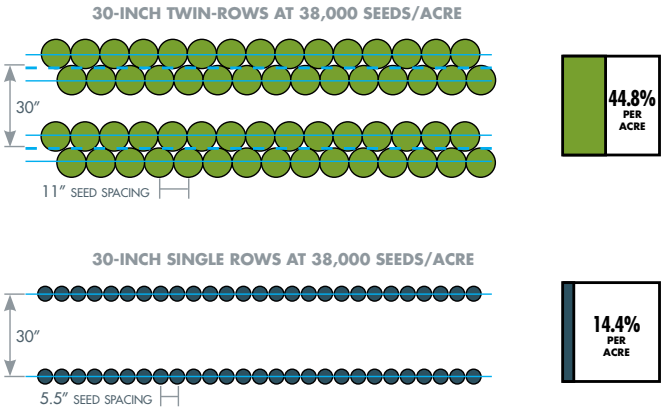
Broader studies by seed corn producer DuPont Pioneer show the greater potential for yield increases from twin-row planting to be in areas where narrow-row corn has been successful, notably in northern portions of the Corn Belt where more effective consumption of available sunlight by the plants appears to be a factor.

Growers of corn for silage can also see potential upsides from twin-row planting from the ability to increase plant populations while maintaining traditional 30-inch row centers.

As a DuPont Pioneer report states, the extensive history of research on corn row spacing has repeatedly shown that it is a very complex issue with many interacting factors.

Case IH's Preller agrees, noting that the introduction of the Case IH twin-row planters provides growers another option as they seek to maximize yields.

"The challenge for North American growers to consistently increase corn yields will continue," he says. "Case IH dealers have the equipment to support all growers striving for ever-higher yields, including those growers who see potential with twin-row corn." ■



The new twin-row planters to be sold through Case IH dealers stagger two rows of seeds on either side of a 30-inch row center. Plant populations can be pushed well into the upper 30,000 range and higher while still allowing ample growing space and root zone for each plant. The 30-inch twin-rows can be harvested with a regular 30-inch row corn head.

Learn more about Case IH planters at www.caseih.com > products > planting & seeding.

Hunter Hooper says running new equipment helps him take advantage of the newest technologies, reduce downtime, and nearly eliminate major repair costs. "I like to work fast," he says. "That's one of the main reasons why I run this newer equipment."

A TIMELINE TO GROW

THIS TENNESSEE FARMER IS ON A TIMELINE TO BUILD A STRONGER FARMING OPERATION. NEW TECHNOLOGY, PRODUCTIVE EQUIPMENT AND GOOD RELATIONSHIPS ALL PLAY A ROLE.

From the time he was a youngster, Hunter Hooper wanted to farm. He started farming with his father right after high school, and after four years, his father stepped aside to let Hooper run the operation himself.

"He was more conservative than I am, and he felt like he was holding me back," Hooper says.

"Energetic" and "forward-thinking" are not direct opposites of "conservative," but they capture Hooper's approach to growing and managing his cash-grain operation near Brownsville, Tennessee.

Hooper farms with his wife, Julie, who until recently held a full-time job as an accountant, and has three full-time employees including one who runs a semi hauling grain and equipment for local dealers.

He has more than doubled the acreage he and his father farmed to about 3,000 acres of corn, soybeans, cotton and wheat.

"Now I'm able to buy some land here and there. I don't want to get much bigger, just try to do a better job with what I have," he says. That has included making land improvements, strengthening his management skills and running more efficient and productive equipment.

Beginning in 2007, Hooper identified irrigation as a way to gain higher, more predictable production, and began adding center pivots. He now has three center pivots, covering up to 200 acres each. On the rolling terrain that defines much of his land, he did the land preparation himself, removing tree lines and fixing ditches, using a dozer and excavator he purchased for his own work plus some for-hire jobs. "This ground's not made for center-pivot irrigation, but we're able to make it work," he says.

In his area, much of the land was aligned with cotton gins, and had been producing cotton for years. Now those gin relationships have changed, and Hooper is rotating corn and cotton on ground that has been dedicated to cotton for more than 30 years. "It's amazing how much rotation

helps the cotton," he says.

While cotton has been a good crop for Hooper, he's turning more of his attention to boosting yields of his corn, soybean and wheat crops.

He's looking harder at the potential of each field, with soil tests, variable-rate lime, and more recently, site-specific yield monitoring.

"Last year was the first year I finally did yield maps on my entire crop. It's impressive to compare the yield maps to the fertility maps, and see where I need to improve," he says.

The yield monitors are part of Hooper's overall emphasis on using the newest technologies. That, along with a desire for maximum uptime, has kept him trading for new equipment every year or two.

Several years back, he says he spent more than $20,000 getting a combine ready for harvest. "I could have gotten into a new machine for not much more," he says. That's when he decided to spend his equipment dollars on new machine payments, rather than parts and repairs on older equipment.

"I don't like downtime, so I'd just as soon make the payments and go."

His recent purchases have been Case IH equipment, swayed by the SCR solution for meeting Tier 4A with the tractors, the productivity of the planters and combines, strong dealer support and favorable financing through CNH Capital.

For the 2012 crop, Hooper planted all his row crops with a new Case IH 1240 Early Riser 16-31 split-row planter.

"My goal was to do everything with one planter, including 38-inch cotton and narrow-row corn," he says.

Prior, he used a 1200 Series 30-foot planter for corn and beans, a stack-fold planter for cotton, and a drill for wheat. "I was using three planters on two tractors. I wanted one tractor set up with good guidance, and one planter."

He met this challenge with the 1240 Series split-row pivot-transport planter, matched to a Case IH Magnum 290 tractor with AFS Autoguidance upgraded from WAAS to RTK.

His interest in narrow-row corn was based on the positive experience of other growers in his area. "Last year was my first year with it, and I was impressed. The stalks are spaced 10 inches apart instead of 5, so there's more room for each stalk to grow," he explains.

Hooper's investments in productivity have included adding center-pivot irrigation and planting narrow-row corn. He uses one split-row planter for his 38-inch row cotton, narrow-row corn, and soybeans.

Hunter and Julie Hooper, with their children Tripp and Anabeth. With an accounting background, Julie helps with overall farm management.

His fertilization and weed control in the narrow-row corn is all liquid, including an ample liquid application of nitrogen when the irrigated corn is about 2 feet tall.

"I spray crossways," he says. "The way these rows curve around our terraces, we'd never stay on the row even with guidance. I just set a line and spray across the field, using those same tracks all year. With the 90-foot booms, we don't lose much crop."

Hooper is a fan of the Early Riser planters. "They are excellent," he says. "That metering system can't be beat. I have hardly any doubles in corn."

Some of his planting is no-till, and residue managers on each row are the only modification. "For double-crop beans I come in behind 80- to 90-bushel wheat where there's a mat, and it plants right through it. I'll add some pneumatic downpressure if the ground is hard, that's all."

Hooper is on his second round of Case IH Magnum Tier 4A tractors, with a new 275 and 315 last year, replacing them with a 290 and a 315 this year.

"I looked at both Tier 4 systems and I think Case IH is a better approach, definitely. It's simple, and it doesn't go through the regeneration process."

The extended oil service interval to 600 hours has been an unexpected benefit. "That matters," he says. "There's less downtime, and oil and filters are expensive."

After experiencing the Tier 4A engines in the tractors, Hooper says he's looking forward to having a Tier 4A engine in his next combine, which will be either an Axial-Flow 7230 or 8230, replacing an Axial-Flow 7120. "I'm leaning toward the bigger machine, as I'll likely be growing more grain," he says.

Hooper is personally challenged to increase grain yields. "I've made good cotton crops, and I have good wheat yields. I think I can make good corn and soybean crops, too."

He recalls some years back, when neighboring cotton looked great, and his didn't. "I realized I needed help," he says. He sought the advice of the good growers, and says networking with other farmers striving to do better continues to be a key part of his management.

He has also developed a good network of trusted suppliers and is fortunate to have good landlords who are open to new ideas. "I've had good people backing me, which has helped me greatly as a young farmer."

At age 34, he's on a timeline to further build and strengthen his operation until age 40. Then, he says, his approach may become more conservative.

Meanwhile, "there's not a day that goes by that I don't pick up a calculator and think about ways to make something work better," he says. ■

See more of Hunter Hooper's operation in this issue's online edition at www.caseih.com.

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At Case IH, we determined early on that Selective Catalytic Reduction (SCR) was the best way to meet Tier 4 emissions regulations and exceed your expectations. In fact, SCR is the most efficient and powerful diesel emissions-control technology there is. That's why you'll find it on our high-horsepower machines. And now with this incredible 0% financing offer, there's no better time to buy. See your Case IH dealer today or visit **caseihdeals.com** for more information.

CNH CAPITAL

* For commercial use only. Customer participation subject to credit qualification and approval by CNH Capital America LLC or CNH Capital Canada Ltd. See your Case IH dealer for details and eligibility requirements. Down payment may be required. Offer good through September 30, 2012. Not all customers or applicants may qualify for this rate or term. CNH Capital America LLC or CNH Capital Canada Ltd. standard terms and conditions will apply. Canada Example: The interest rate will be 0.00% per annum for 12 months followed by a customer qualified rate of 4.99% per annum for 48 months. Total contract term is 60 months. Based on retail contract date of July 15, 2012, with a suggested retail price on a new Steiger 350 of C$247,200, customer provides down payment of C$49,440.00 and finances the balance of C$197,760.00 at 0.00% per annum for the first 12 months followed by a customer qualified rate of 4.99% per annum for 48 months. There will be one annual payment of C$39,552.00 due on July 15, 2013, followed by 3 equal installments of C$44,606.17 each, the first due on July 15, 2014 and 1 final installment of C$44,606.15 due on July 15, 2017. The total amount payable will be C$267,416.66 which includes finance charges of C$20,216.66. Taxes, freight, set-up, delivery, additional options or attachments not included in suggested retail price. Magnum and Steiger Tractors are eligible for 0% for 12 months followed by the customer qualified rate per annum for 48 months, for a total contract term of 60 months. MY 2012 and prior model year Patriot sprayers are eligible for 0% for 24 months followed by the customer qualified rate per annum for 48 months, for a total contract term of 72 months. Axial-Flow Combines are eligible for 0% financing until September 1, 2013 followed by the customer qualified rate per annum, for a total contract term of 60 months. Maxxum/Puma Tractors are eligible for 0% for a total contract term of 36 months. Offer subject to change or cancellation without notice.

CASE IH AGRICULTURE

EQUIPMENT PURCHASE TAX INCENTIVES REDUCED, *NOT ELIMINATED*

50% BONUS FIRST-YEAR DEPRECIATION FOR QUALIFYING NEW EQUIPMENT AND SECTION 179 DEDUCTIONS CONTINUE TO OFFER POTENTIAL TAX SAVINGS FOR QUALIFYING NEW AND USED EQUIPMENT PURCHASES.*

Certain provisions of the Section 179 bonus first-year deduction that were discussed so much last year – notably the 100 percent first-year bonus depreciation and its maximum investment limitation of $2 million – have been reduced for 2012, as planned.

However, the 50 percent bonus first-year depreciation and Section 179 deduction continues with its favorable equipment purchase incentives.

50% first-year bonus depreciation for 2012 purchases

The law includes a new 50 percent bonus depreciation expense allowance that applies to qualifying new equipment purchased and put into service in 2012. With it, you can claim an additional first-year depreciation bonus equal to 50 percent of the adjusted basis of "qualified property." The adjusted basis is the equipment cost less the Section 179 deduction, if applicable. If Section 179 is not applicable, then equipment cost is the basis. Also, the 50 percent bonus depreciation allowance is available on qualifying new equipment only, not used.

One beneficial aspect of the bonus is that it can potentially be applied to taxes in the previous or future years (for example, if you have net operating loss carry-backs or carry-forwards). Under current law, the bonus depreciation will not be available on qualifying new equipment purchased in 2013.

The Section 179 deduction has been available for several years. The Tax Relief Act of 2010 boosted the limits of several depreciation and deduction provisions available for equipment purchased during the latter part of 2010 and 2011.

While those higher limits have been reduced for 2012, Section 179 deductions continue to be available for qualifying new and used farm equipment purchases, and can help reduce taxable income.

Specifically, the Section 179 deduction against taxable income for 2012 on qualifying new and used equipment is $139,000. This deduction is reduced "dollar for dollar" after capital purchases of eligible equipment exceed $560,000, and is completely phased out when total purchases equal or exceed $699,000.

Just as the Section 179 deduction became less for 2012 vs. 2011, it's currently scheduled to drop to $25,000 in 2013, with a maximum investment limitation of $200,000.

CNH Capital has developed an online tax calculator you can use to identify potential tax savings using the 2012 Section 179 deduction and the 50 percent bonus depreciation. It's for general reference only, but can give you an indication of how these current incentives can apply to equipment purchased now through the end of the year. ■

Total 1st Years Depreciation Deduction:
Total of Section 179 Deduction, if applicable, 50% Bonus 1st Year Depreciation Deduction and Normal 1st Years Depreciation Deduction based on the equipment investment you entered.

This Potential Tax Savings Calculator is provided by CNH Capital for general reference only. Scenarios Based on 7 Year Useful Life MACRS Depreciation for Ag equipment (5 year for CE equipment) & Half Year Convention. If the mid-quarter convention applies, the normal first year's depreciation deduction amount shown may be reduced. Some states may not allow the additional deductions under the Tax Relief/Job Creation Act of 2010.

CNH Capital does not provide tax, legal or accounting advice. Customers are strongly encouraged to seek their own professional advice on the proper treatment of these transactions.

Use the online tax calculator developed by CNH Capital to estimate the potential 2012 tax savings by applying Section 179 deductions against income. It's available at www.caseih.com/deals/Pages/TaxDeductions.aspx.

CASE IH PRE-ORDER PROGRAM ASSURES EQUIPMENT DELIVERY

Producers wanting to be assured of getting the exact equipment they want are encouraged to use the Case IH pre-order program, with its targeted delivery dates and best prices. Learn more about the pre-order program at **www.caseih.com/deals**, and see your Case IH dealer for complete information.

This article was developed in cooperation with CNH Capital. CNH Capital provides a comprehensive range of services, including wholesale and retail financing, leasing, insurance, asset management, and revolving lines of credit, for the global marketplace. Building on more than 50 years' experience in the equipment finance industry, CNH Capital is helping Case IH dealers and well over half a million customers throughout North America, Latin America, Europe and Australia.

**Tax information applies to U.S. customers only. CNH Capital and Case IH dealerships do not provide tax, legal or accounting advice. Customers are strongly encouraged to seek and consult their own tax professional advisors for advice on the proper tax treatment of these transactions.*

THE MATH THAT GIVES YOU HIGHER YIELD POTENTIAL: 4>2

The all-new Steiger® Rowtrac™ series is built on four equal-sized, independent, oscillating tracks and a narrower suspension system straight from the factory. Four tracks mean you get proven Case IH Quadtrac® technology, giving you the most horsepower available when tackling row crop applications — resulting in more productivity. The Steiger Rowtrac Series, with the Efficient Power of our exclusive SCR engine technology, puts you at the forefront of farming innovation. Visit your local dealer or go to **caseih.com/4isgreaterthan2**.

BE READY.

EfficientPower EP

CASE IH AGRICULTURE

A SIMPLE CHOICE

A CASE IH PRODUCT PRESENTATION GAVE LONGTIME STEIGER OWNERS CONFIDENCE IN SCR.

Paul and Jan Britton go way back with Steiger tractors. This husband-and-wife team who farm in southern Wisconsin near Brodhead have owned the big tractors from the time they were painted green and had animal names.

"We had Panthers, I think we had one Cougar. That goes back a long time," says Paul. From the time they put the four-wheel-drive tractors to work, the Brittons decided that style was a better fit for them vs. row-crop tractors with front-wheel assist, even though the approximately 4,000 acres they farm is nearly all corn and soybeans.

"We just like these four-wheel-drive tractors. We can get more power, we sit higher, we see better, and we can do more things with them," Paul says.

As longtime Steiger owners, the Brittons have seen firsthand the evolution of the line from the days when Jan recalls trying to work the big shift lever on the old truck-style transmissions to the flick-of-a-thumb shifting on the newest models' MultiControl handles.

Typically, they have been running three Steiger tractors and trading for new ones every several years.

In 2010, as the Brittons considered trading two Steiger 335s, they had hesitations about being among the first to own the new Tier 4A compliant tractors using Selective Catalytic Reduction and DEF.

That changed when their Case IH dealer invited them to a product presentation event at the Case IH training center in Nevada, Iowa.

"When I found out the DEF was going into the exhaust pipe, rather than into the engine, that made the decision simpler." Paul says. "They were able to take a lot of the emission controls off the engine to improve the fuel economy and still get the cleaner air."

Going to the meeting, and hearing the engineers' presentations, gave Paul and Jan confidence in trading the two Steiger 335s for two Steiger 400s with the Efficient Power Tier 4A compliant engines.

"The engineers went through things pretty well out there," he says. "That helped, 100 percent."

The Brittons put the Steiger 400s to work in time for last fall's harvest. Handling and managing the DEF hasn't been an issue, they say, and the overall performance of the tractors is another step forward. They report that the tractors seem more responsive and quieter, and the cabs have improvements such as lighter, easier-to-close doors with more glass. With new cab suspension systems, they say these 400s are the smoothest-riding Steigers they've owned.

Paul ordered both tractors with Firestone's new AD2 Advanced Deflection tires at 480/80R50. These AD2 tires deliver a larger footprint for reduced compaction and increased traction, and can carry higher loads at reduced inflation pressures. The tractors pull 36-foot heavy-duty disks, and Paul says the traction is superior. "The tractors stand tall, but those tires really get a hold of the ground."

Jan and Paul Britton own two Case IH Steiger 400 tractors with the Efficient Power Tier 4A engines. Paul says he's impressed with the FPT Powertrain engines, having owned them in combines beginning with an AFX8010 Axial-Flow combine.

Adding to the appeal of the Steiger 400s for the Brittons is the 12.9-liter FPT Powertrain Technologies engines. Paul has been impressed with the FPT engines, initially branded as Iveco engines, when he first experienced one in their Case IH AFX8010 Axial-Flow combine, and has owned the FPT Powertrain engines through several trade cycles of Axial-Flow combines.

"They've been good engines for us in the combines," he says. At the presentation meeting in Iowa, Paul says he saw the massive main bearings on the cutaway of a 12.9-liter engine, which gave him further confidence in their performance and durability.

The Efficient Power FPT engines do not use any exhaust gas recirculation, so combustion is cleaner. As a result, engine oil change intervals are extended to 600 hours.

"I'll admit, I don't like changing oil in tractors, so I like that 600-hour oil change real well. This oil is staying cleaner, longer," he says.

Jan and Paul handled the 2011 fall harvest and this year's spring planting with the new Steiger 400s. After harvest, they had traded their pair of Axial-Flow 8110 combines for two Axial-Flow 8120s. After experiencing the 12.9-liter Tier 4A engines in the Steiger 400s, Paul and Jan worked a deal with their Case IH dealer to trade those two 8120s with Tier 3 10.3-liter engines they received early this spring for a pair of Tier 4A Axial-Flow 8230s. This time, the Case IH solution with Selective Catalytic Reduction and DEF was part of the appeal.

"I want that bigger 12.9-liter FPT engine, and I want to go to Tier 4A with the combines. That's what's it all going to, so we might as well move there now," Paul says. ■

See more of the Brittons' operation in this issue's online edition at www.caseih.com.

CASE IH DEALERS OFFER DEF PLUS STORAGE AND DISPENSING EQUIPMENT

MANY OPTIONS FOR HANDLING DEF

Selective catalytic reduction using diesel exhaust fluid (DEF) will become more widely used on diesel-powered equipment and vehicles. It's the most efficient means for meeting the Tier 4A emissions standards that took effect in 2011, as well as the Tier 4B standards beginning in 2014.

For farm equipment, Case IH has established a leadership role in the application of SCR technology. As part of its development and production of Tier 4 equipment, Case IH has enabled its dealers to be sources of DEF and equipment for storing, transporting and delivering DEF.

Current Tier 4A Case IH equipment is using DEF in the range of 3 to 7 percent of fuel consumed. The DEF tanks on Case IH Efficient Power tractors, combines and sprayers are sized to provide enough DEF to last two to three tanks of diesel fuel, so it's not necessary to add DEF with each fuel fill-up. However, for convenience's sake, most operators want to have DEF easily available by their fuel source.

Case IH dealers offer the BlueDEF brand of diesel exhaust fluid and the BlueDEF line of DEF dispensing products.

At 32.5 percent high purity synthetic urea and deionized water, DEF has similar characteristics to liquid nitrogen fertilizers. It's not flammable, nor is it listed as a hazardous material by the EPA. It can be mildly corrosive to metal and can stain painted surfaces, so it's best to use care while dispensing it. Because of its mildly corrosive potential, any storage, pumping and handling equipment you use should be manufactured with ISO 22241 compatible materials, as all BlueDEF products are.

The BlueDEF line includes drums, totes, mini-bulk and bulk tanks. All include closed-system dispensing couplers that provide a secure connection to eliminate spills and maintain DEF purity.

The totes are becoming a popular choice. At 275 gallons, they hold enough DEF to support at least 4,000 gallons of diesel fuel at a conservative rate of 7 percent DEF consumption. Because the tote package is also used for other farm inputs such as crop chemicals, the DEF totes can be handled, transported and stored in a similar manner.

These containers can be equipped with BlueDEF self-priming DEF pumps. These include models using 115v AC power, 12v DC power, or compressed air from a shop air compressor. Flow rates range from 6 to 10 gallons per minute. Dispensing hoses are made of sulfur-free EPDM rubber. You can match them to BlueDEF automatic shut-off nozzles with stainless steel components.

Depending on the size of the tractor, combine or sprayer and how it's being used, daily fill-ups of even 5 or 10 gallons of DEF can be sufficient, using small containers. When doing so, Case IH product support specialists emphasize that you should handle DEF with the same level of cleanliness as you would diesel fuel.

There may be a tendency to think "it's just like water," but DEF must be kept absolutely clean and pure. Just as you wouldn't put diesel fuel in a container that has even a drop of any other liquid in it, or is less than spotless, neither should you do so with DEF.

Fortunately, DEF is an easy product to handle, but be diligent about maintaining its cleanliness and purity. ■

THUNDER CREEK FUEL AND SERVICE TRAILERS AVAILABLE THROUGH CASE IH DEALERS

Refueling an Axial-Flow combine can require over 200 gallons; the biggest Steiger tractors can take on over 400 gallons of fuel. And, they could need 40 to 60 gallons or more of DEF if those tanks are low. The Thunder Creek fuel and service trailers are an ideal solution for meeting this challenge of servicing and refueling big equipment in the field. Now this line of high-quality trailers is available through Case IH dealers.

The Thunder Creek line includes three models with 500-, 750- or 990-gallon capacities, with 60- or 100-gallon DEF tanks available on the larger two models.

Popular options on these trailers include an electric-start gas-powered fuel pump rated at 40 gallons per minute, tanks for bulk oil and hydraulic fluid, tool cabinets, and a three-in-one combination welder/air compressor/generator.

The Thunder Creek DEF delivery systems have stainless steel components and are in compliance with ISO 22241 standards. This combined with the patent pending 2-in-1 DEF pumping system creates a field-ready solution for farmers on the go.

IT'S NOT ABOUT MORE TIME IN THE FIELD.
IT'S ABOUT MORE FIELD IN LESS TIME.

Maximize productivity with genuine Case IH parts and performance kits. A productive harvest is a profitable one. Genuine Case IH parts and performance kits, the only parts specifically engineered for Case IH combines, are designed to exacting standards and built from premium components to deliver undeniable performance, unrivaled reliability, and an unbeatable fit. Because in the end, it's about keeping your equipment, and your operation, running smoothly all season long. Be Ready. **A high-performance harvest starts at your Case IH dealer.**

CNH ORIGINAL PARTS

CASE IH AGRICULTURE

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

CASE IH NEW PRODUCTS

CASE IH OFFERS THREE DISTINCT MODELS IN THE 90 TO 120 PTO HP RANGE

Model	Engine	Tier	Fuel system	PTO hp	Maximum boosted engine hp	ROPS/Cab	2WD/MFD
Farmall 110A	4.5l 4 cyl	3	Mechanical	90	N/A	ROPS/CAB	2WD/MFD
Farmall 120A	4.5l 4 cyl	3	Mechanical	96	N/A	ROPS/CAB	2WD/MFD
Farmall 125A	6.7l 6 cyl	3	Mechanical	105	N/A	ROPS/CAB	2WD/MFD
Farmall 140A	6.7l 6 cyl	3	Mechanical	115	N/A	ROPS/CAB	2WD/MFD
Maxxum 110	4.5l 4 cyl	4A	Electronic Common rail	90	143	CAB	MFD
Maxxum 110 MultiController							
Maxxum 120	4.5l 4 cyl	4A	Electronic Common rail	100	154	CAB	MFD
Maxxum 120 MultiController							
Maxxum 115	6.7l 6 cyl	4A	Electronic Common rail	95	154	CAB	MFD
Maxxum 115 MultiController							
Maxxum 125	6.7l 6 cyl	4A	Electronic Common rail	105	165	CAB	MFD
Maxxum 125 MultiController							
Maxxum 140	6.7l 6 cyl	4A	Electronic Common rail	120	176	CAB	MFD
Maxxum 140 MultiController							

Tractors in the 100-hp range see the full range of applications from quick daily chores to long hours under high loads. And, buyers range from people looking for low-cost reliable power to wanting full-featured tractors with lots of comfort.

Case IH offers three tractor series from 90 to 120 PTO hp to provide the best model to meet these distinct needs. All include Case IH FPT 4.5- or 6.7-liter engines, and can be equipped with Case IH easy-on/easy-off L705 Series loaders.

The **Farmall 100A Series** includes four models designed to offer ample power and simple operation for value-focused buyers. They're available in ROPS or cab versions, and with two-wheel drive or MFD, and simple controls.

These are Tier 3 tractors, with an 8F x 8R clutchless power shuttle transmission as standard. They have superior hydraulic capabilities, with a best-in-class three-point hitch lift capacity of 7,200 pounds and open-center hydraulics with total flow up to 31 gpm.

Put these Farmall tractors to work wherever dependable chore tractor performance is needed.

The **Maxxum Series** models have Tier 4 SCR Efficient Power engines for greater fuel savings in more demanding operations, and power boost to meet high power loads during transport and PTO work. Available exclusively with MFD and cabs with a high-visibility roof panel, Maxxum tractors provide a higher level of productivity and comfort. Controls are ergonomically placed on the right armrest. A 24F x 24R transmission with hi-lo powershift is standard on most models, with several options. Three-point hitch lift capacity is 6,200 pounds with 6,900 pounds optional, with open-center hydraulics and two mechanical remotes with up to four optional. Total tractor hydraulic flow is up to 29.2 gpm. You can equip these tractors with front hitches and PTOs for added versatility.

The option list includes an operator training seat, cab suspension, air seat suspension, turn-assist steering, front-axle suspension and electronic rear remotes with PFC hydraulics.

The **Maxxum MultiController Series** include the MultiControl Armrest for improved productivity and ease of operation. The MultiControl Armrest has the same functionality found on the larger Puma, Magnum and Steiger models, controlling tractor direction, speed, gear changes, and hitch and hydraulic valve operations. The standard transmission is a 16F x 16R semi-powershift with several optional choices. The PFC hydraulic system includes three electronic remotes with in-cab flow control up to 43.6 gpm. Additional standard premium features are a suspended cab and A-post instrumentation.

Learn more about Case IH equipment at www.caseih.com/products.

NEW DELUXE AUGER
FEATURES WIRELESS CONTROL

A new deluxe auger option for the high-capacity Case IH 3580 Precision Air cart makes material transfer easier and faster.

A wireless hand-held control gives full and effortless control of the auger's position and operation. It's totally wireless, not tethered, so you can use the remote control while standing on the platform on top of the tank, or on the ground. A patented design lets you easily direct the auger to unload into each of the cart's four hatches while the auger hopper remains stationary.

The newly designed hopper can be adjusted fore and aft up to 31 inches so that hopper-bottom trailers don't have to be precisely aligned next to the cart.

When it's time to clean out the air cart, the auger hopper can also be positioned under the cart to unload any unused seed or fertilizer back into the truck.

The deluxe auger option adds to the productivity of the high-capacity and accurate Precision Air 3580 cart. Its three pressurized steel tanks can carry up to 580 bushels (135/183/262) to keep you seeding longer between fill-ups.

The electro-hydraulic variable rate metering system, standard on the Precision Air 3580, has independent drives for each meter; the system is controlled with either AFS Pro 700 or Pro 600 displays.

AXIAL-FLOW 30 SERIES COMBINES USE TIER 4A SCR TECHNOLOGY

All new 30 Series of Case IH Axial-Flow combines use Selective Catalytic Reduction (SCR) to meet Tier 4A emissions standards. With its cooler operation and lack of high-temperature regeneration, SCR is especially desirable for combines compared to Cooled Exhaust Gas Recirculation, the alternative approach to meet Tier 4A standards.

Model	Class	Engine	Horsepower (Base/Max)
5130	V	6.7 l	265/295
6130	VI	8.7 l	320/380
7130	VII	8.7 l	350/410
7230	VII	8.7 l	380/440
8230	VIII	12.9 l	450/510
9230	IX	12.9 l	500/560

Choose from six 30 Series Axial-Flow combine models. Match them with Case IH corn heads from six to 18 rows including chopping heads, grain and flex heads from 20 to 35 feet, draper and flex draper heads from 25 to 45 feet, and belt-type and rake-up heads.

25 YEARS OF MAGNUM TRACTOR LEADERSHIP

In August 1987, hundreds of Case IH dealers traveled to Denver, Colorado, to see one of the most anticipated new tractor introductions in farm equipment history. It had been just two years since International Harvester and JI Case came together to become North America's second largest agricultural equipment manufacturer, and this totally new tractor represented the first major product from this new organization.

The distinctive red tractors carrying the new name "Magnum" were unveiled to standing ovations. There was plenty of substance behind their bold appearance. Built with mechanical front drive as an integral part of the design, the new tractors offered superior overall balance and traction.

A new 8.3-liter engine sat in between a strong frame, rather than being used as a structural component. It drove through an 18-speed full powershift transmission praised at the time for its ample speed choices in the working range and has since earned a reputation for outstanding durability.

Each successive series of Magnum tractor models has introduced customer-driven improvements big and small, all designed to make the tractors ever-more powerful, efficient, productive and comfortable. From the outset, Magnum tractors have set many records for leadership in power, fuel efficiency and new technologies.

The nine current Magnum tractors from 150 to 290 PTO hp are powered by Case IH Efficient Power FPT engines. They use simple and efficient SCR-only technology to meet Tier 4A emissions standards and deliver more power with reduced overall operating costs.

To celebrate 25 years of Magnum tractor leadership, Case IH is producing 100 Magnum 340 tractors for the North American market in a distinctive silver, black and red finish with a 25th Anniversary logo.

These special tractors signify one of the most successful chapters in the history of agricultural tractor production … and one that continues to be written with more innovations such as the powerful new Magnum 370 CVT available in 2013, and the efficient SCR-only solution to meet Tier 4B/final emissions requirements on schedule for Magnum models beginning in 2014.

BE READY

WITH CASE IH EQUIPMENT, TECHNOLOGY & PEOPLE

Meeting the challenges farmers face every day takes more than innovative technology and equipment. It takes committed people. Case IH has more committed professionals in the field, helping producers solve problems and maximize production. Our commitment is to keep you going around the clock, season after season. Because we know farming is more than an occupation – we understand your critical role in the global economic and food systems. Case IH can help you be ready. To learn more, visit **caseih.com/beready**.

CASE IH IS A MAJOR EXHIBITOR AT THIS BUSINESS-FOCUSED EVENT

2013 AG CONNECT SET FOR JANUARY

As technical information has become more valuable in farm equipment purchase decisions, Case IH has sought new ways to put its product experts together with farmers and ranchers seeking specific equipment solutions.

A new type of farm show presents this opportunity. The AG CONNECT Expo was initiated in 2010 with the goal of bringing top producers from throughout North America to one location for an event focused on their business management needs.

AG CONNECT 2013 EXPO & SUMMIT

The 2013 AG CONNECT Expo & Summit will take place January 29, 30 and 31 at the Kansas City Convention Center in Kansas City, Missouri.

As it does at every major farm show, Case IH will have its AG CONNECT display staffed with product specialists having extensive knowledge about the performance and benefits of every Case IH product.

In addition, executives representing senior levels of engineering, product management and marketing will be on hand to give their insights as to where Case IH is headed, and more importantly, to listen to what top-tier producers are expecting for their future equipment needs.

That's consistent with the business-focused theme of AG CONNECT, where the event is designed to provide an environment for productive interaction between attendees and exhibitors.

"Case IH will have a major presence at AG CONNECT," says Jim Walker, vice president, Case IH Agricultural Business, North America. "We like the opportunity to talk with leading producers from throughout North America in this professional environment. We will have a well-staffed, impressive display. I encourage everyone who considers themselves to be a progressive operator to attend. We look forward to talking with you."

In addition to the exhibits, AG CONNECT features numerous educational seminars and presentations. At past events, the Case IH display has been the site of panel discussions involving ag industry leaders, and Case IH has hosted live broadcasts for national ag media programs.

Several major agricultural organizations are co-locating their annual events to Kansas City to coincide with AG CONNECT, including the National Farmers Organization and the U.S. Custom Harvesters. ■

Learn more about AG CONNECT here http://www.agconnect.com/About/

SHOPCASEIH.COM FOR UNIQUE BRANDED MERCHANDISE

In addition to the scale models, wearables and other special items at your Case IH dealer, you can find a full selection online at **www.shopCaseIH.com**. New items are continually added to the site, along with seasonal promotions. Check in often!

Engage WITH THE WORLD OF CASE IH

Case IH is fully engaged in new interactive media, providing you with multiple ways to access the world of Case IH.

You can find *Farm Forum* online at **www.caseih.com/farmforum**. There, you can access a digital edition that has many live links that will take you to specific locations on the Case IH website, and exclusive videos of people featured in *Farm Forum*. You'll also find archived issues.

Apple iPad users can download the *Farm Forum* app through iTunes for a full-featured interactive experience. And, you'll be notified each time a new issue of *Farm Forum* is posted.

The Case IH site, **www.caseih.com**, is your source for a wide range of Case IH information. Popular features include complete and detailed specifications on all current models, and the ability to look up and order parts online. The schematics accompanying many parts provide helpful details for making repairs.

The Case IH Be Ready blog resides at CaseIH.com with its special content focused on the "feeding the world" challenge facing North American farmers and ranchers. You can subscribe to the Be Ready blog to receive interesting and timely updates from the blog via email.

The Case IH Facebook page continues to grow, with more than 60,000 friends from around the globe sharing their interest in all things Case IH. Case IH is a frequent contributor to the site, with news items, interesting photos and coverage of special events.

Subscribe to the CaseIHTube on YouTube. It's the official Case IH video channel. There you'll find videos ranging from the newest Case IH television ads to insightful tutorials on specific equipment functions from Case IH product specialists. There are over 170 videos on the site with new ones added frequently.

Learn more information — www.caseih.com

NEW IDENTITY SHOWS CASE IH AND DEALER STRENGTH

Watch for an exciting new look at your local Case IH dealer. The familiar Case IH dealer signs are being updated with bold and contemporary new signs that portray the strength and power delivered by the Case IH brand and the dealership.

The new signs carry the consistent Case IH identity with ample space for each dealer's name to be clearly displayed and aligned with the Case IH logo. The new signs also include options to identify parts and service entrances at dealerships with separate departments.

KEEP UP WITH CASE IH ON TWITTER

Stay current with Case IH news by signing onto the Case IH Twitter account. Gain up-to-the-minute insights from Case IH and the expanding list of followers. Go to: **http://twitter.com/case_ih**.

CASE IH RECOGNIZED FOR PROMOTING CUSTOM HARVEST SAFETY

For a lot of custom wheat harvesters, Frederick, Oklahoma, has become the official starting point for each year's harvest run. And, for 20 consecutive years, Case IH has partnered with the Great Plains Technology Center (GPTC) in Frederick, Oklahoma, for safety training.

This year, Case IH and GPTC were jointly honored with a citation from the state of Oklahoma for their continuous commitment to the safety of wheat harvest workers.

Presented on behalf of Oklahoma Lt. Gov. Todd Lamb and State Representative Don Armes, the citation noted that for the last 20 years, Case IH and GPTC have partnered "for the promotion of harvesting safety through the ProHarvest Kickoff."

Dan Renaud is the Case IH combine specialist who organizes the ProHarvest Kickoff event. The goal, he says, is to get harvest crew members thinking about safety before the harvest season starts.

"Usually between 70 to 80 percent of the attendees are on their first harvest run. Many are young, between 18 and 23 years old," he explains. "So we review combine safety procedures and show safety videos and photos to remind them that no one is invincible, no matter how young and strong they are."

Renaud credits Jim Smith, the GPTC's agricultural and machine repair instructor, for hosting the annual training. The event begins with a breakfast provided by the Frederick FFA Chapter that Case IH has partnered with for many years, and continues with two days of training on safety as well as combine operation and productivity training. It typically involves several hundred custom harvest crew members with more than two dozen Case IH employees on hand to answer questions. "Every year, Jim opens his doors to us for the duration," Renaud says.

Pictured left to right are Robert Johnson, Frederick, Oklahoma, city manager; Dan Renaud, Case IH combine product specialist; Jim Smith, GPTC agricultural and machine repair instructor; Gary Tyler, GPTC campus superintendent; and Dave North, Case IH ProHarvest manager.

Case IH is the exclusive major agricultural equipment manufacturer offering this type of safety training for this important segment of combine owners and operators, many of whom are members of the U.S. Custom Harvesters Association.

"The ProHarvest Kickoff training has always welcomed owners of all brands," Renaud says. "We don't care what color combine you run. Everyone is welcome. Combine safety is our ultimate goal."

The term ProHarvest refers to the Case IH ProHarvest support program that has been supporting custom harvesters on the wheat harvest for more than 25 years. It currently includes two company-trained four-person teams equipped with support trailers loaded with Case IH parts, test equipment and service tooling. They follow the custom harvesters on their run from the Texas/Oklahoma border north to the Canadian border.

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