

Case Study: Green-on-Green Simplicity

Turning Precision Technology into Practical Seeding Value

The Challenge

John Deere's new green-on-green seeding system brings the tractor, seeder, air cart, guidance, and automation together into one integrated platform. For growers, that means less time setting up and managing different systems, and more time focusing on getting the crop in the ground.

During the 2026 seeding season, Emmetts conducted a series of demonstrations to see how a fully integrated John Deere seeding system performed across a range of paddock conditions, and whether green-on-green integration could make precision seeding simpler without compromising accuracy or productivity.

The Setup

The demonstrations utilised a fully integrated John Deere seeding solution comprising a 9R tractor, P660 Precision Air Hoe Drill, and C-Series Air Cart.

Testing was conducted across multiple paddocks, soil types, terrain profiles, and crop programs, providing an opportunity to evaluate system performance under a range of real-world operating conditions.

The Results

Across approximately 438 hectares, the system delivered consistent productivity, accuracy, and efficiency regardless of operating conditions.

Implement Guidance maintained **accuracy within ± 3 cm**, even on sloping terrain where tractor drift would traditionally affect implement placement.

Rate Control remained **within $\pm 0.2\%$ of target rates** across all crop types, ensuring consistent seed and fertiliser application.

Automated technologies including Section Control and Turn Compensation operated seamlessly throughout the demonstrations, reducing operator workload while maintaining performance and accuracy.

Perhaps most significantly, variation in productivity was driven largely by paddock layout and workflow efficiency rather than machine performance. The integrated system consistently delivered accurate, repeatable results across all conditions encountered.

The Takeaway

Green-on-green integration is about more than connecting machines. By bringing the tractor, seeder, air cart, guidance, and automation together into one system, operators spend less time managing technology and more time focused on getting the job done.

These demonstrations showed that **precision doesn't have to add complexity**. Setup was simpler, automation reduced operator workload, and the system provided clear performance data that can help identify opportunities for improvement.

For growers, the result is a seeding system that's easier to operate, delivers consistent performance, and provides greater confidence that every hectare is being seeded as intended.

Key Technologies Used:

- Implement Guidance
- Section Control
- Turn Compensation
- Integrated Rate Control
- ATTA (Auto Trac Turn Automation)
- John Deere Operations Center™ data collection and analysis

Performance Highlights:

- 438 hectares seeded
- 14–15 ha/hr average productivity
- 17+ ha/hr peak productivity
- 3–4 L/ha fuel consumption
- ± 3 cm implement guidance accuracy
- $\pm 0.2\%$ rate control accuracy



Want to learn more about green-on-green seeding solutions?

We're here to help. With 15 branches across South Australia and western Victoria, Emmetts is your local go-to for John Deere automation. Find your nearest branch at:

 www.emmetts.com.au  1300 628 596



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