

The proof is in the Coverage That MagrowTec Delivers

MagrowTec for Canola & Wheat Growers



Overview

Canadian farmer Howard Bye farms 10,000 acres of wheat, canola, and yellow peas. With rising operating and crop input costs, he knew that he needed to find ways to save money. For spraying operations, he wasn't willing to compromise on protection and coverage for his crops, though. That's where the MagrowTec system came in.

"We're always challenging ourselves to find ways to reduce costs on inputs, equipment, and operating," he says. "For spraying, the biggest challenge for me is that I want to make sure that I am getting the right amount of droplets on and into the plant canopy."

To test the efficiency of the new MagrowTec system, Bye set up a field trial with sprayers with identical boom calibrations: boom height above the canopy, boom pressure, and gallons per minute. Then he placed water-sensitive paper strips in the crop, both on top of the canopy and further into the canopy. One sprayer was fitted with the MagrowTec boom kit and pulse-width modulation nozzles, a second sprayer had only a pulse-width modulation nozzles, and the third was a conventional sprayer. Bye then did four test runs with each sprayer traveling the same speed.

The crop coverage from the MagrowTec system with pulse-width modulation nozzles was 40% greater than from the other two sprayers, enabling him to spray 25% more ground with a tank full of spray. He notes that the low drift meant his product was hitting its targets better, even on windier days.

GROWER

Howard Bye

LOCATION

Veteran,
Alberta, Canada

CROP

Canola & Wheat

FARM SIZE

10,000 Acres

KEY RESULTS

- ✓ 40% Greater Coverage vs Conventional
- ✓ 25% More Acres Per Tank
- ✓ Reduced Input Costs
- ✓ Significantly Reduced Drift

The MagrowTec Effect

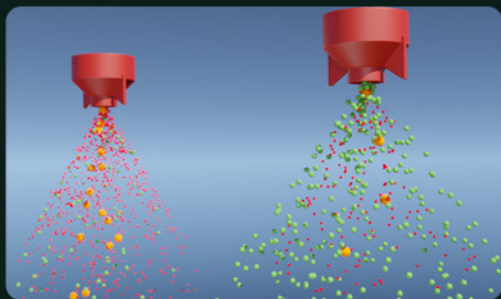
With the ability to add on to any sprayer, the MagrowTec technology is a two-component system composed of a series of magnetic inserts and manifolds. Water-based fluid passes through the associated magnetic fields under appropriate flow conditions, thereby altering the physical properties of the fluid, which results in the spray characteristics that account for the MagrowTec effect:

Superior Spray Drift Control and Increased Crop Coverage.

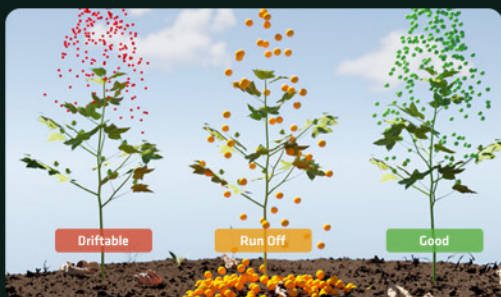


Watch Howard's Story



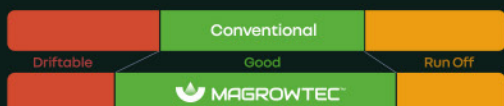


70% of all conventional spray does not reach the target crop and results in drift and run off, wasting money.



Optimum performance spray makes sure the chemical both reaches and adheres to the target.

MagrowTec Spray Optimization



The Field Trial

"With MagrowTec, I can apply recommended label rates and also get better coverage and better kill of weeds and insects. I have more flexibility in reducing the rates of water and chemicals that I use, which ultimately saves me money."

Since that trial, Bye has installed another MagrowTec boom kit on a second sprayer. He appreciates the ease of installation and operation of the system. With no moving or electrical parts, it really is just as simple as 'install and spray'. "Sometimes it's hard to explain exactly how the system works," says Bye, "but the proof is in the coverage that is delivered by the MagrowTec units."

Bye also finds that MagrowTec is a good investment for his operation. "With the reductions in water and chemical that I've been able to achieve the system has paid for itself in less than a year. It's also good to know that when I go to trade-off, I can install that same kit on my next sprayer".

Bye is sold on the MagrowTec system. "Whether you're a farmer or a custom applicator, if you want the biggest bang for your buck out of your sprayer, MagrowTec can definitely help you achieve that."

MagrowTec is an accredited

97.5%

drift reduction technology

Source: TGT DRT List (Netherlands), October 2020

Why MagrowTec?

The MagrowTec system helps by creating more of the optimum-sized spray – ensuring that more of the spray goes onto the weeds, crop canopy, buds, flowers, stalk, fruit or vegetable product itself or soil, giving better coverage and more protection.

MagrowTec helps improve crop protection, lower risk to the financial investment in the crop, increase the chance of higher crop quality and yield and reduce wastage of expensive resources like chemical inputs, water, time and money.



Contact your local MagrowTec dealer for more information: [MagrowTec.com/Sales](https://www.MagrowTec.com/Sales)