MEDIA RELEASE

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 **A consistent spray keeps the pests at bay**

Efficient efficacy is the sweet spot for pesticide applications. Thanks to advanced spray technology from Case IH, the goal is more achievable than ever – from field edge to field edge.

It’s something that Pete McCann, Case IH Product Manager for Patriot Sprayers is keen to remind farmers of as they look to protect their winter crops.

“Any herbicide, fungicide or insecticide won’t perform up to your expectations if underapplied or applied at an improper droplet size. Overapplication wastes money, risks crop injury and is poor stewardship”.

“Those scenarios occur more often than you think. Even when properly calibrated to the right spray pressure and ground speed, variables across the field – such as rolling terrain, contours or obstacles – can affect application consistency”.

The [AIM Command® spray system](http://assets.cnhindustrial.com/caseih/NAFTA/NAFTAASSETS/Products/Application-Equipment/Patriot-Series-Sprayers/Brochures/AIM_Command_Spray.pdf) available on Case IH [Patriot® series sprayers](http://www.caseih.com/northamerica/en-us/products/application-equipment/patriot-series-sprayers?utm_source=beready&utm_medium=social&utm_campaign=blog_patriot_sprayers&db=beready--social----blog_patriot_sprayers--&bu=specialty&bl=in_control) can level the application inconsistencies that result in uneven pesticide performance. A product of Case IH [Agronomic Design](http://www.caseih.com/northamerica/en-us/innovations/agronomic-design?utm_source=beready&utm_medium=social&utm_campaign=blog_agronomic_design_&db=beready--social----blog_agronomic_design_--&bu=cash_crop&bl=brand_innovation), the AIM Command spray system holds constant pressure independent of ground speed.

“It helps your Patriot sprayer consistently put out an optimal droplet size and accurate rates over a wide speed range”, says Pete. “The i**nstant-control flow rate** automatically adjusts the pulse width via a solenoid at the nozzle body for a constant application rate at a constant pressure as sprayer speed and field conditions change”.

**Independent pressure control** maintains constant spray pressure at the boom. The system’s computer uses the sprayer’s product pump to control pressure independent of application rate and ground speed.

**“Constant pressure** lets you choose the speed that fits the field or conditions. This may lead to an increase in average field speed of up to 4.5 or more kilometres per hour. With independent control of the speed, pressure and flow, AIM Command increases the sprayer’s production potential and reduces the cost per hectare of running your Patriot sprayer”.

**A constant application rate** over an 8:1 speed range means better coverage on every hectare.

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The AIM Command spray system uses Pulse Width Modulation (PWM) to control the flow at each nozzle section. When a boom section is commanded to be off, the flow stops instantaneously, reducing overapplication. When commanded to be on, the flow starts immediately with the correct rate and pressure for better coverage and efficacy.

**Three conveniently placed** switches in the Patriot sprayer command centre put application control at your fingertips. This allows you to choose the AIM Command system or conventional spraying and control pressure settings.

**Toggle between two preset spray pressures** for on-the-go drift control with AIM Command. It helps you control difficult spray patterns as wind and weather conditions change**.**

“If you frequently spray irregularly shaped fields or on the contour, or if you simply want greater accuracy, AIM Command PRO™ is your best option”.

This system’s advancements include:

* **Turn compensation.** When turning in field corners or following contours, different parts of the boom travel at different speeds. Turn compensation automatically adjusts each nozzle according to the speed it’s traveling, so it applies appropriate rates based on the target rate.
* **Individual nozzle swath overlap control.** Each nozzle automatically commands on or off if it passes over a previously sprayed area. This improves application efficiency by minimizing skips, overspray and overlaps. It’s a great option for irregularly shaped fields or fields with point rows.

“Although lower grain prices and slow-to-adjust input costs have helped many farmers focus on finding absolute efficiency, achieving an optimal spray pattern always is a good idea”.

For more information about AIM Command, AIM Command PRO or Patriot sprayers, contact your local Case IH dealer or visit www.caseih.com.

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