

Spray drift management under changing operational requirements

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SPG Contributions	Project Status	Duration/Timeline of Project (Year to Year)	Co-funders	Total Project Cost
\$40,000.00	Active	April 2018 – March 2023	Integrated Crop Agronomy Cluster	\$296,304.00

Project Description

To develop multiphase computational fluid dynamics models to simulate spray drift; to quantify pesticide drift from a high-clearance self-propelled sprayer as a function of (i) travel speed, and (ii) spray quality; to identify the physiological response of selected crops to simulated herbicide drift.

Outcome

Research Objective

OBJECTIVE 1

To develop multiphase computational fluid dynamics models to simulate spray drift.

OBJECTIVE 2

To quantify pesticide drift from a high-clearance self-propelled sprayer as a function of (i) travel speed, and (ii) spray quality.

OBJECTIVE 3

To identify the physiological response of selected crops to simulated herbicide drift.