Pesticide Sprayer Nozzle Selection Workshop

Friday, January 15
at the University of Nebraska
Agricultural Research and Development Center
near Mead, Nebraska
9:00 a.m. – 2:30 p.m.

A Workshop presented by Greg Kruger, Nebraska Extension Weed Science and Application Technology Specialist.

Pesticide applications are of critical importance in the U.S. as regulations and restrictions are tightening and we are at the commencement of dicamba and 2,4-D resistant traits being marketed for POST emergence use in major broadleaf crops. Understanding what nozzles are out there for use, how to apply pesticides optimally and how to maximize the efficacy to prevent or delay resistance is paramount.

The program will cover the most important factors to consider when trying to minimize pesticide drift. This includes understanding the importance of wind speed, wind direction, boom height, droplet size, and distance to sensitive areas. Students will be made aware of different tools for monitoring environmental conditions as well as simple things that can be done to mitigate drift incidences.

The program will also cover in depth on nozzle types, nozzle patterns, and droplet size produced from various nozzles. We will also cover tank mixtures and how they affect droplet size. A discussion on how droplet size can be managed for drift mitigation will also be covered. Examples of how pesticide labels often cover aspect of how to apply the product to maximize efficacy and/or mitigate drift will be shown.

Applications can be altered in terms of carrier rate, droplet size, and spray solution to increase efficacy. The program will cover a range of different products and what can be done to maintain efficacy while mitigating drift or ways to maximize efficacy. After attending the program, those attending should have a good comprehension of the applications, application set-ups, drift mitigation and how to maximize applications for efficacy.

Limited to 50 participants. Pre-register to reserve your seat and ensure workshop materials are available the day of the workshop.

To register, contact Nebraska Extension at (402)624-8000 or cdunbar2@unl.edu.

For questions about the program, contact Nebraska Extension Educator Keith Glewen at the above phone number or kglewen1@unl.edu.