



**Office of Indiana  
State Chemist**



# Residential Mosquito Control Update

170<sup>th</sup> IPRB Meeting

August 9, 2022

-Dave Scott-

# Off-target mosquito aduItciding

- Complaints & inquiries to OISC on the rise in recent years
- Primarily private property aduItciding vs. community-wide aduItciding
- Concerns about insecticide exposure to:
  - Pollinators & other wildlife
  - Pets
  - Humans



# Bifen I/T

**Mosquitos:** To control mosquitos around buildings, landscapes, and lawns, dilute 0.33 to 1.0 fl. oz. per gallon of water and use one gallon of dilution per 1000 sq. ft. as a general spray. Bifen I/T can be mixed at lower concentrations and applied at higher volumes to ensure application of proper amounts of product to a given area (refer to the Ornamental or Perimeter Application Charts).

# Other Residential Mosquito Labels:

- “apply as a low-pressure spray( do not exceed 50 psi at nozzle tip)”
- “high volume applications using power sprayers”
- “treat with spray or mist”
- “apply as a general spray”



# State regulators have asked U.S. EPA:

- Does “general spray, etc.” describe the application technology being used for residential mosquito control ? (*backpack power mist blowers*)
  - *Some equipment specs. tout up to 300 psi application pressure*
- Did the EPA product registration risk assessments for these insecticides account for off-target drift from power mist blowers?
- If adequate risk assessments & drift evaluations have not been performed, what is EPA’s plan to address this in future registration actions for these products?
- If EPA believes risks have been adequately assessed, what guidance can EPA provide to help states assure the public they are being protected?

# Informal Responses from EPA to date:

- A draft response is being reviewed within EPA & should be forthcoming.....? *(May 31, 2022)*
- Power misters specifically do not appear in any current application method assessments.
- EPA is conducting consensus building about how best to fit power misters into existing assessments.
- EPA's draft response to the issue paper is still under review by management, but I'm trying my best to usher it along....*(July 18, 2022)*

# So, what do we do in the meantime?

- Proactive committee working on educational efforts
- Incorporating mosquito content into applicator CCH programs
- PPP publication under development
  - “Adult Mosquito Control With Backpack Mist Blowers Creating Barriers for Homeowners’ Green Space”*
- Incorporating mosquito content into certification training & exam



# *Adult Mosquito Control With Backpack Mist Blowers Creating Barriers for Homeowners' Green Space*

- Fred Whitford, Director, Purdue Pesticide Programs
- Lee Green, Senior Medical Entomologist, Indiana Department of Health
- John Obermeyer, Integrated Pest Management Specialist, Purdue University
- Joe Becovitz, Pesticide Program Specialist, Office of Indiana State Chemist
- George Balis, Entomologist and Regional Manager, Clarke Mosquito
- Mark Sybouts, Sales and Development Manager, Advance Turf Solutions
- Bob Andrews, Executive Director, Indiana Professional Lawncare Association
- Kevin Leigh Smith, Communication Specialist, Purdue Agricultural Sciences Education and Communication

# *Adult Mosquito Control With Backpack Mist Blowers Creating Barriers for Homeowners' Green Space*

- Introduction
- Mosquito Biology—Explains Why We Do What We Do
- Turning Down A Customer's Request For Mosquito Treatments
- Residential Treatments Focus on Bite Reduction, Not Disease Prevention
- Have A Plan Before Strapping On Your Backpack Mist Blowers
- Water, Water Everywhere
- Product Characteristics—Effectiveness, Repellency, and Longevity
- Adult Mosquito Control Relies on Backpack Mist Blowers
- Think Shade When Spraying
- **Keep Applications Off Of Neighbors Property**
- **The Label—A List of Do's and Don'ts**
- Resistance Management
- **Indiana Certification Requirements for Commercial Mosquito Applications**
- Conclusions

# Comments or Questions on Off-Target Mosquito Adulticiding Plan?