

Lakeland Feed & Supply Private Applicator Licensing Class

December 15th, 2023

Location: Beaverhead County Fairgrounds, 4-H Building, 707 S Argenta St, Dillon, MT 59725

Registration & Contact: Mackenzie Serrano (406-320-0295; mackenzies@lakelandfeeds.com)

Registration Deadline: December 11th

Registration Fee: FREE with Lunch Provided (The Den)

License Fees: \$24

- Presentation Times:
 - Introduction: **8:00 am – 8:05 am**
 - Private Applicators License (30 min): **8:05 am – 8:35 am**
 - Ben Hauptman, MSU Granite County Extension Agent
 - What are pesticides and what are restricted use products? How to read your license number and why it is importance?
 - Recertifying, pesticide fees and what you can and can't do with your license.
 - Reading the Pesticide Product Label (30 min): **8:35 am – 9:05 am**
 - Brooks Hammel, Helena Agri-Enterprises
 - What are active versus inert ingredients and signal words? What/where do you find the restricted entry interval (REI)? What/where is the pesticide product rate? Can you go above product rates?
 - What/where do you find storage and disposal information? Importance of crop and site locations
 - Integrated Pest Management (60 min): **9:05 am – 10:05 am**
 - Cecil Tharp, MSU Extension Pesticide Education Specialist
 - Definition of integrated pest management (IPM), Benefits of IPM (why zero tolerance doesn't work). Economic thresholds & economic injury levels, Monitoring techniques and Pest identification.
 - Control methods (chemical, cultural, biocontrol, transgenic, and mechanical), Resistance/resistance management
 - Break: **10:05 am – 10:20 am**
 - Pesticide Safety (90 min): **10:20 pm – 11:50pm**
 - Amy Bower, MSU Pesticide Education Technician
 - Acute vs. chronic toxicity, Four routes of exposure. What is an LD₅₀? Signal words, protecting yourself: personal protective equipment (PPE)
 - Laundering pesticide-contaminated clothing

- Proper pesticide storage: storage of pesticides in their original containers, triple rinsing, storage checklist, disposal of empty containers and excess pesticide product
 - Procedures for poisoning, Heat stress, Cleaning and using PPE
- **LUNCH PROVIDED- 11:50 am – 12:30 pm**
- Pesticide Laws (60 min): **12:30 pm – 1:30 pm**
 - Cecil Tharp, MSU Extension Pesticide Education Specialist
 - [Worker Protection Standard \(WPS\)](#). Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Montana Pesticides Act and other Montana laws and regulations
 - Surface water discharge permit (MPDES). Federal recordkeeping requirements: key elements to record, how to use calibration formulas to help you keep accurate records
- Pesticides in the Environment (60 min): **1:30 pm – 2:30 pm**
 - Mat Walter- MSU Lewis and Clark County Extension Agent
 - Pesticide properties regarding environmental contamination
 - Solubility, soil binding capabilities (adsorption), pesticide behavior in the soil: leaching, runoff, and groundwater contamination.
 - Drift, volatilization, how nozzles and pressure contribute to drift, degradation characteristics when applying pesticides.
- Break: **2:30 pm – 2:45 pm**
- Calibration of Pesticide Spray Equipment (90 min): **2:45 pm – 4:15 pm**
 - Cecil Tharp, MSU Extension Pesticide Education Specialist
 - Determining GPA of hand, boom and broadjet sprayers. Determining nozzle output. Reading a nozzle specification sheet. Understanding the effects of speed and pressure. Acres you can spray with a given volume. Amount of pesticide product to add to the tank. Pesticide solution to add to the tank. Interactive demonstration calibrating hand-sprayers.
- Review and Exam: **4:15 pm- 5:00 pm**
 - Amy Bowser, MSU Extension Pesticide Education Technician

Event Contact Information and RSVP

Mackenzie Serrano: Phone #: 406-320-0295; Email: Mackenzies@lakelandfeeds.com