

## Private Pesticide Applicator Initial Training

April 6, 2023

Stanford City Hall | 102 Central Ave. | Stanford, MT

Training materials which include the core manual and addendum will be provided. New applicators will need to fill out a new applicator permit with \$60 fee (if within District 5) and mail to Montana Department of Agriculture.

Registration due to the MSU Extension Judith Basin County office by April 5<sup>th</sup> at (406) 566-2277 Ext 104 & 105.

- 8:30 a.m. Registration**
- 9:00 a.m. Montana Private Applicator License (30 minutes)**  
**Cody Ream, MSU Extension-Fergus County**  
Pesticide definition, classifications, importance of the pesticide license number, recertifying, pesticide fees, rules, and restrictions.
- 9:30 a.m. Reading the Pesticide Product Label (30 minutes)**  
**Jesse Fulbright, MSU Extension-Liberty County**  
How and when to utilize the pesticide product label, active versus inert ingredients, signal words, restricted entry intervals (REI), pesticide product rate (going above or below product rate), pesticide storage, disposal, and importance of crop/site locations.
- 10:00 a.m. Break**
- 10:15 a.m. Calibration of Backpack, Boom, and Broadjet Sprayers (90 minutes)**  
**Cecil Tharp, MSU Extension Pesticide Education Specialist**  
Determine output of sprayers (GPA), determine nozzle output, how to read a nozzle specification sheet, understanding the effects of speed and pressure, how many acres can you spray with a given volume, how much pesticide product do you add to the tank, how much pesticide solution do you add to the tank, useful conversions (pints to ounces, gallons to ounces, etc.), using calibration formulations to help you keep pesticide records, and calibration exercises.
- 11:45 a.m. Lunch**
- 12:10 p.m. Integrated Pest Management (60 minutes)**  
**Tyler Lane, MSU Extension-Chouteau County**  
Integrated pest management definition, benefits of integrated pest management, economics thresholds, economic injury levels, monitoring techniques, pest identification, control methods (chemical, cultural, biocontrol, transgenic, and mechanical), resistance, and resistance management.
- 1:10 p.m. Pesticide Laws (60 minutes)**  
**Theresa Schrum, Montana Department of Agriculture**  
Worker Protection Standards (WPS), FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act, Montana Pesticides Act, Montana laws/regulations, Montana Pollutant Discharge Elimination System (MPDES), federal recordkeeping requirements (key elements you need to record and how to use calibration formulas to help you keep accurate records.)
- 2:10 p.m. Break**
- 2:30 p.m. Pesticides in the Environment (60 minutes)**  
**Colleen Pagar, MSU Extension-Hill County**  
Pesticide properties regarding environmental contamination, solubility, adsorption, drift, valorization, leaching, runoff, water contamination, degradation, pesticide behavior in soil, and how nozzles/pressure contribute to drift.
- 3:30 p.m. Pesticide Safety (90 minutes)**  
**Amy Bowser, MSU Extension Pesticide Education Technician**  
Toxicity definition (acute versus chronic), four routes of exposure, pesticide formulations, applicator safety (liquid versus dry formulations), LD<sub>50</sub>, signal words, how humans process toxic substances, personal protective equipment (PPE), laundering pesticide contaminated clothing, proper pesticide storage, procedures in event of poisoning, and sprayer/equipment cleaning.
- 5:00 p.m. Applicator Certification Review and Exam; Katie Hatlelid, MSU Extension – Judith Basin County**
- 5:30 p.m. Adjournment**

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