

DATE: April 4, 2024

TO: Graduates of Level 1 and 2 Weed Management Workshops

FROM: Jane Mangold and Noelle Orloff, Montana State University Extension

RE: Level 3 Noxious Weed Management Certification Workshop

The Level 3 Noxious Weed Management Certification Workshop is the final installment in a series of courses focused on weed biology, ecology, and management. This two-day course is designed to benefit experienced weed and land management professionals, and participants must first complete Levels 1 and 2 in the series. Please see the attached preliminary agenda for details.

The Level 3 workshop is limited to 20 participants.

**When:** September 4 and 5, 2024. Registration required by Monday, August 26, 2024.

**Where:** C'mon Inn, 6139 E, Valley Center Rd., Bozeman.

**Lodging:** A block of rooms has been reserved for the nights of Sept. 3, 4, and 5 at \$250 + tax per night for single or double occupancy. To secure a room at this price, call 406-587-3555 and refer to group name "Weed Management Group".

**Cost:** The registration fee (\$200) provides each attendee with course materials, supplies, transportation to/from field site, and daily snacks and lunches.

Please contact Noelle Orloff (406-994-6297, [noelleorloff@montana.edu](mailto:noelleorloff@montana.edu)) with questions.



## Noxious Weed Management Certification Program Level 3 - Agenda

September 4-5, 2024

C'mon Inn and Red Bluff Research Ranch | Bozeman and Norris, Montana

### ***Wednesday, September 4; 8:00 – 5:00. Meet at C'mon Inn***

#### Day 1: Field Day – Monitoring and Data Collection

8:00 – 9:00 Introductions, adaptive management, field activity overview – Jane Mangold

9:00 – 9:15 Break, prepare to depart for field, grab sack lunches

9:15 – 10:15 Travel to field site, Red Bluff Research Ranch near Norris, MT

10:15 – 4:00 Field activity (lunch break from 12:00-12:30) – Jane Mangold & Noelle Orloff

*We will travel to Red Bluff Research Ranch for field activities. For most of the day, participants will learn and implement methods for monitoring and comparing effectiveness of weed management tactics, e.g. does a herbicide treatment (or other weed management tactic) reduce weed abundance and increase desired vegetation compared to non-treated areas; does one herbicide treatment work better than another? Data collected by the participants will be explored and analyzed during Day 2 (C'mon Inn meeting room). While in the field, we will also spend time improving and honing our plant identification skills, especially grasses.*

4:00 – 5:00 Travel back to Bozeman; adjourn

### ***Thursday, September 5; 8:00 – 5:00***

#### Day 2: Data Day – Analyzing, Interpreting, and Applying Data

8:30 – 10:00 Interpreting scientific data, Part 1 – Jane Mangold

*We will discuss common approaches to presenting research results, covering basic terms that will help participants better understand, interpret, and apply research-based information to your local program. This exercise will equip weed management professionals with the skills to assess efficacy of weed control tactics, including various herbicide treatments.*

10:00 – 10:15 Break

10:15 – 11:30 Interpreting scientific data, Part 2 – Jane Mangold

11:30 – 12:30 Lunch

12:30 – 2:00: Analyzing and applying data, Part 1 – Noelle Orloff and Jane Mangold

*Using Microsoft Excel, we will work with data collected during Day 1. We will explore basic functions helpful for organizing data and running simple statistics to determine effectiveness of weed management tactics. Prior experience with Excel is not necessary.*

2:00 – 2:15 Break

2:15 – 3:30 Analyzing and applying data, Part 2 – Noelle Orloff and Jane Mangold

3:30 – 4:30 Small group discussions

*Small groups will brainstorm about and discuss how the monitoring protocol learned this week could be used in your local programs.*

5:00 Adjourn