Herbicide Applications in Lincoln County, Oregon with an Aerial Spray Ban

Joe Steere and Luke Bergey

• Economics

• Efficacy

• Application
Lawn Mower Analogy

**HELICOPTER**

**BACKPACK**
Economics

- Cost Increase Over Helicopter
  - Average increase over past 3 years = 60%
  - Most expensive units are double
    - Terrain
    - Distance to roads
    - Cleanliness of units
  - Turnaround Time
    - Helicopter 5-7 minutes
    - Backpack upwards of 40 minutes
    - Blown out, fogged in, or rained out
Efficacy – Aerial Release
Efficacy – Backpack Release
Efficacy – ALWAYS DO SOMETHING!!!
Efficacy – Buffers
Application

- Timing – Availability of Crews
  - Planting
  - Fire

- Production
  - Production – 5 x longer (80 acres on a good day / 1 guy = 8 acres)
  - Rates – 6.5 gallons/acre with orifice discs

- Chemicals
  - Site Prep
    - Glyphosate, Imazapyr, Sulfometuron-methyl + Metsulfuron-methyl, MSO, and Crosshair
  - Release (sometimes)
    - Clopyralid and Crosshair
    - Hexazinone or Sulfometuron-methyl
Application – Site Prep

$$$Unit$$$

[Map Image]
Takeaways - Cons

• More Expensive
• Availability of Crews
• Injuries
• Less Effective
• Possibly larger suite of chemicals
Takeaways - Pros

• Tighter Buffers = more planting ground
• Spray in Higher Winds
  • Other options - Hack and Squirt
• Crew Availability for Fire
Takeaways –

ALWAYS DO SOMETHING!!
THANK YOU

Questions?