



From E to Z: Using The EZ-Ject Lance for Targeted Woody Species Control





# EZ-Ject Lance System

## - An Overview

- ▶ System utilizes pre-measured herbicide shells of either imazapyr (copperhead) or glyphosate (diamondback) which are injected directly into the cambium layer of target species.
- ▶ Can be used year-round, providing bark is not too frozen for shells to penetrate.
- ▶ Provides excellent control of many woody species (must be at least 3/4 inch diameter)
- ▶ Limits applicator and public exposure to product

# EZ-Ject Lance - Models



Standard (\$650)

- ▶ 63.5 inches
- ▶ 400 shell capacity
- ▶ Great shell capacity
- ▶ Excellent for controlling thorny species like holly without getting in close



Short (\$650)

- ▶ 41.25 inches
- ▶ 228 shell capacity
- ▶ Combines ease of transport with shell capacity
- ▶ Decent reach for controlling thorny species



Bulldog (\$650)

- ▶ 25.25 inches
- ▶ 100 shell capacity
- ▶ Great for crawling through brush
- ▶ Requires getting in close to target species



# EZ-Ject Shells

## **Copperhead** HERBICIDE SHELLS

- ▶ Shell contains 83.5% imazapyr
- ▶ Costs about \$300 for 1200 shells
- ▶ For stems less than 2.5 inches in diameter use 1 shell
- ▶ For stems larger than 2.5 inches in diameter use 1 shell every 2-4 inches around trunk
- ▶ Off target effects have been observed



## **Diamondback** HERBICIDE SHELLS

- ▶ Shells contain 83.5% glyphosate
- ▶ Costs about \$300 for 1200 shells
- ▶ For stems less than 2.5 inches in diameter use 1 shell
- ▶ For stems larger than 2.5 inches in diameter use 1 shell every 4 inches around trunk
- ▶ Expect to see less off target effects



## EZ-Ject: Lessons Learned

- ▶ Delayed off target effects when using imazapyr shells
- ▶ Can't always kill rhizomatous tree species in one treatment - often need to return and control sprouts.
- ▶ Storing shells within the lance (especially in hot conditions) can lead to gumming and jams
- ▶ Rifle cleaning kits can be quite useful for cleaning gummed up lances





# EZ-Ject - Benefits and Drawbacks

## Benefits:

- ▶ Limits applicator, public, and wildlife exposure to herbicide
- ▶ Less visible
- ▶ Keeps thorny species at arms length
- ▶ Highly targeted and effective
- ▶ Easy to track herbicide usage
- ▶ Easy to carry and transport

## Drawbacks:

- ▶ Cost (about \$0.25 a shell and \$650 per lance)
- ▶ Prone to jamming (especially if not clean)
- ▶ Shells and lance must be stored upright
- ▶ Will not penetrate thick or frozen bark
- ▶ Can be time intensive.



Questions? Email [ethan.coggins@dnr.wa.gov](mailto:ethan.coggins@dnr.wa.gov)  
or come find me after this talk.