

# Cut-Stump Treatments

## Water Based vs Oil Based Applications



A Long Forestry Landowner Resource

# Basics of Cut-Stump Treatments

- Cut-stump treatments are used on woody stemmed plants
  - Bushes and Trees
- Used when:
  - The target plants are too large for a backpack foliar application
  - When a highly selective treatment option is desired



# Basics of Cut-Stump Treatments

- Cut-stump consists of mechanically cutting the plant close to the ground and treating the stump with an herbicide mix
  - The herbicide is mixed in water or in oil
- The herbicide mix is typically applied with either a back-pack sprayer or with a spray bottle



# Specifics of Cut-Stump Treatments

- Allows you to target individual plants without harming desirable adjacent vegetation, significantly reducing off target kill
- Must cut the plant as close to the ground as possible, typically 6" or under
- Stumps must be cut flat, or the herbicide will run off the stump surface



# Difference between Water and Oil Based Applications

## Carrier Coverage

**The difference between the 2 are:**

What the herbicide is mixed with

How much of the stump you need to cover

How soon after cutting you must apply the chemicals

# The Carrier

The **carrier** is what the herbicide is diluted into in order to deliver the mix to the plant

## Water

- The herbicide is mixed with water

## Oil

- The herbicide is mixed with basal bark oil
  - The oil acts as a penetrant and allows the herbicide to soak through the bark and into the plant



# Coverage

## Water

- With a water based mix only wet the cambium layer on top of the stump
  - **Must be applied immediately**

## Oil

- With an oil based mix we the cambium layer, along with the bark and root collar of the stump
  - **Can be applied weeks after the cutting**

# Water Based

- Must apply **immediately** after the cutting
- Apply to the cambium layer of the stump
  - No need to spray the heartwood
- Stumps must be cut flat or re-sprouting is likely
- Cannot be applied during sap flow in early spring
  - The sap flow will wash the herbicide off the stump





# Water Based - **the Mix**

- Herbicides used in a water based mix
  - Glyphosate
  - Triclopyr 3A
- Read the label of your herbicides to determine the proper mix for your target plant and application technique
  - Typically the mix for these 2 herbicides ranges from 50 - 100%

# Oil Based

- Can be applied weeks after the cutting
- Spray the root collar, sides of the stump, and the cambium layer
  - No need to spray the heartwood
- Do not use if the bark or stump surface is wet, or when snow or water prevents you from spraying to the root collar
  - Can be applied year round, but sap flow typically results in a wet stump surface



# Oil Based - **the Mix**

- Herbicides used in an oil based mix
  - Basal Oil and Triclopyr 4
    - Mixed at 80% oil, 20% triclopyr 4
  - Pathfinder II Ready to Use
    - No mixing required
    - Significantly more expensive
- Always read the label of your herbicides to determine the proper mix for your target plant and application technique

**The staff at Long Forestry have the knowledge and resources to provide forest landowners with the education, tools, and financial resources they need to manage their land in order to achieve their goals.**

**Long Forestry is available to private landowners to help plan, implement, and fund forest management activities on their property. Call and speak to a consultant today.**

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