

# HERBICIDE APPLICATION AS A FOREST MANAGEMENT TOOL

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# Individual Plant Treatment for Woody Plant Control

Month of Application

Application Method

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

Foliar

after full leaf-out in the spring through summer until 10% leaf coloration

Cut Surface

avoid application during spring sap flow and when it is cold enough for spray mixture to freeze

Low Volume Basal

year 'round except on wet stems or snow



# Glyphosate Options are Plentiful!





# Low Volume Foliar



Dow AgroSciences

# Low-Volume Foliar

- I usually use 5-10% glyphosate. 1.3 oz=1%. Read the label!
- A site that contains low stem densities and stem heights.
- This close-range treatment helps minimize drift.
- Requires minimal equipment, herbicide and personnel.
- Get good coverage on the growing tips and terminal leader.
- If you cannot reach the top, it may require cutting and treating the stump or the following year's sprouts.
- Spray front and back sides of the target clump to ensure adequate coverage.
- Apply the herbicide solution at a volume that wets the crown, but minimizes runoff.



**Low Volume Mist Blower Application  
Or Also Called Air Assisted**









# Glyphosate

- Commercially sold for around \$18-\$25 per gal depending on product
- Products containing surfactants are General Use Pesticides in Maine
- Products without surfactants (Rodeo) have an aquatic label, requiring a pesticide license to purchase
- Actually cheaper to buy products commercially than through place like Tractor Supply or Home Depot
- Surfactants are much better in the commercially purchased products.
- MadDog is Nutrien's glyphosate product with the tallow amine surfactant safe for conifer release after hardening off.

# Cut Stump Treatments with Glyphosate





# Cut Surface/Stump Equipment

- Backpack with basal wand used for high number of stumps
- Heavy duty spray bottle for low densities









# Cut Stump Treatments (Oil based)

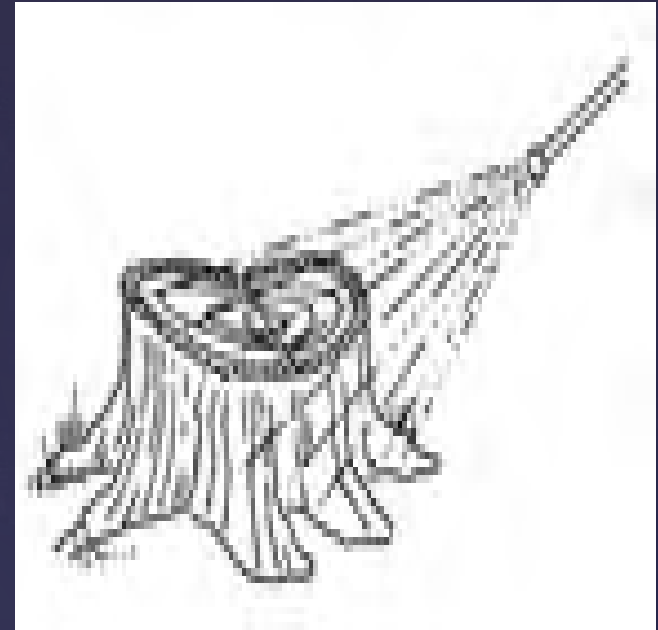
- Treat cambium (outer edge of stump) and any exposed roots
- Doesn't have to be done immediately after cut, but still a good idea
- Herbicides:
  - Pathfinder<sup>®</sup> II as a ready to use
  - 20-25% Garlon<sup>®</sup> 4 Ultra + 75-80% basal oil
  - Dye or no dye?
  - Soil active herbicides?







**Cut Stump Treatment with  
Rodeo and Water**



**Cut Stump Treatment with  
Garlon 4 and oil**

# Equipment for Low Volume Basal Bark



**Backpack Equipped with Low Volume Wand**

Backpack sprayer that is designed for use with oil carriers (oil resistant gaskets and fittings).



# Basal – Recommended Equipment



B&G Sprayer Wand - Complete, 18" or 24"

www.Qspray.com

- Use low pressure (~20 psi)
- Recommend backpacks with Viton seals and oil resistant hoses
- Wand that comes with the spray units may be used, however a better alternative is a brass tip shut off wand such as the ULV brass wand (BG42401)
- Adjustable-cone nozzles are ideal for basal applications
- Flat fan or hollow cone nozzles also work but do not allow as much flexibility as the adjustable-cone nozzles



**Basal Bark Application  
To Lower 12-15 Inches**









# PATHFINDER II

- *Triclopyr 14% and basal oil 86% mix*
- READY TO USE FORMULATION
- BASAL BARK AND STUMP TREATMENTS
- BEST BASAL CONTROL ON STEMS LESS THAN 6"
- YEAR ROUND APPLICATION EXCEPT WHEN SNOW PREVENTS APPLICATION TO THE GROUND
- TRICLOPYR IS TRANSPORTED THROUGH THE BARK BY THE BASAL OIL
- \$43-44/gal, General Use Pesticide in Maine







Mix with Bark Oil or MSO at 20 or 25%  
\$80-85/gal for Garlon 4, \$13/gal for bark oil.  
\$27-\$32/gal mixed  
General Use Pesticide in Maine





**Hack and  
Squirt or  
Frill and  
Injection**







# QUESTIONS?

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