

Invasive Exotic Plant Control: Herbicide Measurements for Woody Plants using Garlon 3A (Active ingredient: Triclopyr)**

For Cut Stump * ♦ (aka “Cut & Paint”) application, a 25% solution may be adequate, but you can increase to a 50% solution if lower percentages don’t do the job on tougher or large diameter stems.

U.S. Measurements- For a 25% solution of herbicide to water:

- 1 liquid ounce herbicide per 3 liquid ounces water
- 1 cup herbicide per 3 cups water
- 1 quart herbicide per 3 quarts water

Metric Measurements-

- 1 milliliter herbicide per 3 ml water
- 25 milliliters herbicide per 1 liter water
- 1 liter herbicide per 3 liters water

For Foliar Spray * ♦ application, a 4%-6% solution is very effective. The leaves should be at least 80% covered, but not to the point that herbicide is significantly running off of the leaves. A 5% mix is very effective and easy math to do when determining the mix.

U.S. Measurements- For a 5% solution of herbicide to water:

- 1.6 ounces herbicide per 1 quart water
- 6.4 ounces herbicide per 1 gallon water

Metric Measurements-

- 5 milliliters herbicide per 100 ml water
- 50 milliliters herbicide per 1 liter water

Note: Cut stump formulations can be increased up to a 50% solution and foliar spray formulations can be increased up to 6% if needed for difficult to control plant species.

* **Add dye** to the above mixes to identify the plants you have already treated. A common brand is “TurfMark” which colors the mix blue. Follow the mixing directions on the bottle. (This brand or equivalents can be found at the two locations noted below.)

♦ **Follow this procedure when mixing:** Fill your container or sprayer with the water component *first*, leaving an estimated space for the herbicide and dye. Add the herbicide next. Then add the dye. This method will prevent your container from filling up with suds, which is what would happen if you started with the herbicide. (And those suds take a long time to go down, greatly slowing the mixing process!)

** **Important! Follow the safety and application requirements outlined on the herbicide label (booklet). The information in the label is Federal & North Carolina Law! Use the Personal Protection Equipment (PPE) as directed in the label.**

Note: Garlon 3A is available in a 2-1/2 gallon container from Southern States (464 Riverside Drive, Asheville) for around \$230.00 and from Southern Agriculture (511 Maple Street, Hendersonville) for \$160.00. Other brands (Ortho Brush-B-Gone) are available with diluted triclopyr formulations. Also, herbicides with the active ingredient “glyphosate” are more effective than Triclopyr for *herbaceous* plants and grasses, less powerful for woody stems than Triclopyr. “Roundup” is one common brand; “Roundup ProMax” has the highest concentration of glyphosate. Check the percentage of glyphosate when purchasing and follow label directions for a given target plant species. (A NON-Monsanto equivalent is a brand called “HDX” which is of equal concentrate to Roundup ProMax, and there others, now that the patent for glyphosate is expired and it is a generic compound.) Follow the directions on the particular brand and container size you purchase, since they vary in their formulations with the size of the container.

Surfactants can be added to foliar spray mixes for better leaf absorption, but beware that most can be harmful to amphibians and reptiles if they occur in the spray areas. Two that are not are “Agridex”, fairly widely available, and “LI-700,” available by ordering from:

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