

WOODY PLANTS (forestry)

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
TREE INJECTOR:			
2,4-D amine	Various products ((4 lb/gal) @ 1.0-2.0 ml (cc) spacings in spring and early summer	Most oaks, hickory, pecan, hawthorn, elm, and waterlocust. Hard to kill trees require continuous cuts.	Apply in all seasons but best results are in spring and early summer Rates apply to trees 4-9 inches in diameter measured at breast height (DBH). The injector bit must penetrate inner bark. Make each injection at ground line (473 ml = 1 pt). Hatchet and squirt bottles may also be used.
imazapyr @ 2 lb/gal	Chopper 8 - 12 fl oz/gal water or diesel. Apply 1 ml per injection or cut at 1" interval	Most hardwoods. Pines are resistant	Apply year round. Legumes (locusts) are not controlled
glyphosate @ 4 lb/gal	glyphosate @ 1 ml per 2-3" DBH	Oaks, sweetgum, poplar and sycamore	Apply From full leaf expansion until leaf drop in fall. The injector bit must penetrate inner bark.
2,4-D amine plus picloram	Tordon 101R or RTU @ 1.0 ml of undiluted material inject at 2-3" intervals.	Most species	Best results in spring and summer. Maple, blackgum, hollies, hickory and dogwood are more difficult to control. To control these species, apply in continuous cut.
APPLIED TO SOIL:			
tebuthiuron @ 1-4 lb/A	Spike 20P @ 5 - 20 lb/A Spike 80WP @ 1.25 - 6.0 lb/A	Most woody brush and trees	Apply any time the ground is not frozen. Distribute pellets uniformly.
imazapyr 0.5% + diuron 2.0 G hexazinone @ 3.6-6.3 lb/A	Topsite 2.5G @ 200 lb/A Velpar 90SP @ 4-8 lb/A Velpar L @ @ 1.8- 3.6 gal WK or Pronone 10G @ 5 -30 lbs/A	Most species Willow, oak, gum and other trees and brushes	Apply year round. Some legumes are resistant. Apply between later winter and early summer. Apply Velpar in 50-200 gal of water + surfactant with handgun as individual stem treatments or as narrow bands 4 to 6 feet apart. Follow instructions on label. Apply Pronone 10G by hand or with spreader.
hexazinone @ 3.6-6.3 lb/A	Velpar L undiluted @ 4-8 ml per 2" stem diameter.	Willow, oak, maple, and other trees and brushes	Apply between later winter and early summer. Apply by "spot gun" to the soil at base of the stem.
BASAL BARK TREATMENT:			
triclopyr @ 1 lb/gal+ 2,4-D @ 2 lb/gal	Crossbow @ 115 oz/gal plus Penetrator or Cide Kick @ 13 fl oz/gal; makes 1 gal finished spray	Same as above. Very effective on briars and multiflora rose	Same as above. Apply as basal spray or with spot gun as thin line solid stream at 3-5 ml/second.
triclopyr @ 4 lb/gal	Garlon 4 @ 25 oz/al + diesel @ 90 oz/gal + Cide Kick or Penetrator @ 12 oz/gal; makes 1 gal finished pray	Most hardwoods up to 4" DBH. Better on thin bark species	Apply year round by hand with backpack sprayer as a narrow band or mist to lower 12" of stem. May also be applied with a spot gun set to deliver 3-5 ml/sec as a solid stream.
2,4DP + 2,4D	Weedone CB @ 5 gal/A	Most southern hardwoods up to 4" DBH	Apply spring through fall. Apply with hand pump sprayer to lower 18 -36" of stem.
FOLIAGE SPRAY:			
imazapyr @ 0.5-.5 lbs/A	Arsenal 2 EC, Arsenal Powerline @ 2.0 - 6.0 pt/A	Most woody plants, grasses and broadleaf weeds	Apply at full-leaf in spring or summer. Good residual.

WOODY PLANTS (forestry)

Active Ingredient and Rate	Formulated Product and Rate	Weeds Controlled	Remarks and Precautions
FOLIAGE SPRAY: continued			
dicamba @ 0.5-1 lb/A + 2,4-D @ 2.0-6 lb/A	Brush Buster @ 0.5 - 1.0 gal per 50 gal of spray by ground or 3.0 gal/A by air	See Brush Buster label	Apply after leaves are fully developed and until 3 weeks before frost. Dicamba and amine 2,4-D may be tank-mixed in the proportions listed under active ingredients. See label for precautions.
triclopyr @ 1.0-1.5 lb/A + butoxyethyl 2,4-D @ 2.0 -3.0 lb/A metsulfuron methyl @ 0.04-0.16 lb/A	Crossbow @ 1.0-1.5 gal/100 gal water Escort XP @ 1 - 4 oz/A	Most woody plants. Especially good on briars, willow and tallow Oaks, ash, elm and other woody species	Apply at full-leaf in spring or summer. Spray to give thorough coverage. Avoid drift to desirable vegetation. Apply when brush is actively growing. Can be used over top of loblolly and slash pine for conifer release and preplant for site preparation.
triclopyr @ 1.0 - 2.0 lb/A	Garlon 4 @ 1.0-2.0 qt/A	Most woody plants	Apply at full-leaf in spring or summer. Spray to give thorough coverage. Avoid drift to desirable vegetation. Can be used in 2,4-D restricted areas.
glyphosate @ 2-5 lb/A	glyphosate @ 2-5 qt/A or 1.0-2.0% solution	Many trees, brush and herbaceous weeds	Apply at later summer and fall while plants are actively growing. May be aerially applied in 5-15 gpa water. Use 10-40 gpa water for ground rig. For percent solution, spray to wet.
fosamine @ 6-12 lb/A	Krenite @ 1 1/2-3 gal in 50 - 300 gal of water plus surfactant	Willow and certain other hardwoods	Apply in the 2 month period prior to fall leaf coloration. Ground application only on ditchbanks. Read label for specific instructions.
sulfometuron methyl @ 0.09-0.36 lb/A	Oust XP @ 2-4 oz/A	Many grass and broadleaf species.	When weeds are actively growing. Can be used over top of loblolly, longleaf and slash pine for conifer release and preplant for site preparation.
clopyralid @ 0.1-0.38 lb/A	Transline @ 0.25-1.0 pt/A	Good on legume species	Apply at full-leaf in spring or summer. Can be used in 2,4-D restricted areas.
fluroxypyr @ 0.14-0.25 lb/A	Vista @ 0.33-1.33 pt/A	Most herbaceous weeds and certain woody plants	Apply at full-leaf in spring or summer. Can be used in 2,4-D restricted areas.
CONTROL OF POISON IVY AND OTHER VINES ON TREE TRUNK			
Amitrol-T @ 3 oz/3 gal water plus 3 tablespoons surfactant	REFER TO LABEL FOR COMPLETE INSTRUCTIONS. Cut vine and spray foliage around the base of tree. Do not drench soil. Apply when ivy or other vines are in full leaf. Prevent drift. More than 1 application may be required.		
Gramoxone Max @ 7 TBS/gal water plus 1 TBS surfactant	REFER TO LABEL FOR COMPLETE INSTRUCTIONS. A non-selective, contact herbicide. Spray foliage of vine around base of tree after cutting vine. Do not allow drift to contact foliage of desirable plants. Thorough coverage of undesirable plants is necessary, but avoid drenching soil. If sprayed on the tree trunk, be sure that bark is well developed and shows no green. Avoid excessive wetting. Even under favorable conditions injury may occur.		
Roundup Ultra @ 4 - 5 qt/A broadcast or a 2.0% solution spray to wet.	Apply to actively growing plants before leaves develop fall leaf color. Repeat if required. Do not allow spray to contact desirable foliage.		
Vine-X - Ready to use	Product comes ready to use with built-in brush type applicator tip. Follow label instructions. Excellent on poison ivy and bush killer vine. If used correctly will not injure adjacent plants.		