

## Glossy Buckthorn

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Glossy Buckthorn (*Frangula alnus*) is a deciduous shrub with many sprouts from the base or small tree, 6 to 24 feet (12 m) in height and thornless stems up to 10 inches (25 cm) in diameter with glossy bark (thus the common name) and an oval, much-branched crown. Wide spreading with many sprouts, leafing out early in spring and retaining foliage late in fall. Seed is spread by birds with seedlings able to establish in shade.

### ***Recommended control procedures:***

- Thoroughly wet all leaves with a glyphosate product or Garlon 3A as a 2- to 3-percent solution (8 to 12 ounces per 3-gallon mix) in water with a surfactant. Or, apply Arsenal AC\* as a 0.25-percent solution (1 ounce per 3-gallon mix) or Arsenal Powerline\* as a 0.5-percent solution (2 ounces per 3-gallon mix).
- For stems too tall for foliar sprays, cut large stems and immediately treat the stumps with one of the following herbicides: a glyphosate herbicide or Garlon 3A at a 25-percent solution (32 ounces per 1-gallon mix); In the winter, when the ground is not frozen, apply Garlon 3A at a 50-percent solution (64 ounces per 1-gallon mix) in water with a surfactant. A subsequent foliar application of may be required to control new seedlings and resprouts.
- Apply Garlon 4 as a 20-percent solution (2.5 quarts per 3-gallon mix) in basal oil, vegetable oil, crop oil concentrate, diesel fuel or kerosene as a basal spray.

\* Nontarget plants may be killed or injured by root uptake