# **EUROPEAN ALDER**



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**European Alder** is a quick growing tree in the birch family that reaches 30-50 feet. It is commonly found in moist soils and along stream banks, rivers, ponds or other wetlands.

invasive

fact sheet

### The Problem

• European Alder (*Alnus glutinosa*) is a nitrogenfixing plant that has the ability to become



established on very poor soils

- Average number of seeds per tree is 240,000
- Its ability to be dispersed by water andform mono-specific stands, makes it a threat to native wetland species
- European alder commonly sprouts from the stump after cutting, and live branches can be layered successfully



The Nature Conservancy, Montpelier, Vermont 802-229-4425 x120 www.vtinvasives.org



# **EUROPEAN ALDER**



### Mechanical removal:

Hand pull: Any time of year when the ground is soft, especially after a rain, hand pull small plants by the base of the stem. Be sure to pull up the entire root system. Hang plant from a branch to prevent rerooting. For larger plants, use a Weed Wrench<sup>™</sup>. Continue to monitor the area every year for new seedlings.

**Cut stump**: Repeated pruning of established plants to ground level without subsequent herbicide application is not effective for European Alder control. Each regrowth results in a thicker stem base and denser branches.

#### Chemical removal:

#### CAUTION: BECAUSE THIS PLANT GROWS IN AND CLOSE TO WET-LANDS, AQUATIC HERBICIDE FORMULATIONS MUST BE USED.

**Cut stump:** Cut the plant 4 inches above the ground. Use a drip bottle to apply a 18-21% glyphosate solution to the stump within one hour of cutting. This is best done in late summer through winter when plants are transporting resources to their root systems. **Low volume foliar spray**: This method is used for dense populations and best left to a contractor. During the summer months, July to August, spray a 2% glyphosate solution on the entire leaf surface of the plant. In order to avoid drift to native plants, spray only on calm days.

#### Safe Chemical Application

- ✓ Develop an Integrated Plant Management approach. Use chemical control as only ONE piece of your prevention and management strategy.
- ✓ The label found on the herbicide container is the law. It indicates the concentrations to use, what protective clothing to wear, how to apply the product, and what environmental and human health hazards are associated with the chemical.
- ✓ Use aquatic formulations within 10 feet of water. You need a permit to apply herbicides in wetlands. You cannot apply herbicides within 100 feet of a wellhead. Contact VT DEC at 802-241-3761 for more information.
- ✓ You need to be certified to apply herbicides on land that you do not own.
- ✓ Hire a contractor to manage large infestations. A good contractor will have the knowledge to help create an effective management plan. For a list of certified contractors, contact the VT Department of Agriculture at 802-828-3482.



## Non-invasive Alternatives



River Birch Betula nígra



Quaking Aspen





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