Ash Tree Identification

Ash species attacked by the emerald ash borer (EAB) include green (*Fraxinus pennsylvanica*), white (*F. americana*), black (*F. nigra*), and blue (*F. quadrangulata*), as well as horticultural cultivars of these species. Green and white ash are the most commonly found ash species.

While other woody plants, such as mountain ash and pricklyash, have "ash" in their name, they are not true ash, or *Fraxinus* species. Only true ash are susceptible to attack by the EAB.

To properly identify ash trees, use the following criteria:



Branch and Bud Arrangement

Branches and buds are directly across from each other and not staggered. When looking for opposite branching in trees, please consider that buds or limbs may die; hence not every single branch will have an opposite mate.





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Leaves

Leaves are compound and composed of 5-11 leaflets. Leaflet margins may be smooth or toothed. The only other oppositely branched tree with compound leaves is boxelder (*Acer negundo*), which almost always has three to five leaflets. White ash (on left) and green ash (on right)



Diane Brown-Rytlewski

Bark

On mature ash trees (left), the bark is tight with a distinct pattern of diamond-shaped ridges. On young ash trees (right), bark is relatively smooth.



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Seeds

When present on ash trees, seeds are dry, oar-shaped samaras. They usually occur in clusters and typically hang on the tree until late fall or early winter.



Emerald

Tree Species Resembling Ash

Boxelder (Acer negundo)

Exhibits opposite branching and compound leaves. However, has 3 to 5 leaflets (instead of 5 to 11) and the samaras are always in pairs instead of single like the ash.





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European Mountain Ash (Sorbus aucuparia)

Leaves are compound with alternate (staggered) branching. Tree bears clusters of creamy white flowers in May. Fruits are fleshy, red-orange berries.





Shagbark Hickory (Carya ovata)

Leaves are compound with 5 to 7 leaflets, but the tree has an alternate branching habit. Fruit are hard-shelled nuts in a green husk.





Elm (Ulmus species)

Branching is alternate and the leaves are simple with an unequal leaf base.





Black Walnut (Juglans nigra)

Leaves are compound with 9 to 15 leaflets, but the tree has an alternate branching habit. Fruit is a large dark brown nut inside a green husk.

*www.forestryimages.org



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