# Fraxinus spp.

**Brown Ash** White Ash Green Ash

# Native to Maine

#### Leaves



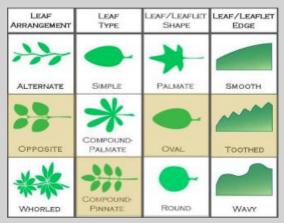
Maine Forest Service





Gilles Ayotte, (Bibliothèque

Compound leaves with multiple smaller leaflets. 5-13 total leaflets arranged in opposite pairs with one at the end. From left to right: White Ash, Green Ash, Brown Ash



Leaf arrangement: opposite Leaf type: compound pinnate Leaflet shape: oval Leaflet edge: toothed

#### Bark







Young ash trees (far left) have a smooth appearance. Older trees can have a diamond-shape pattern of ridges (center) or a corky appearance (far right) as with Brown ash

#### Seeds

Groups of flat, oar-shaped, dry seeds.





Keith Kanoti, Maine Forest Service

### **Branching**



Denver Parks and Recreation

Branches and buds are opposite.

### Trees often mistaken for ash: and their distinguishing characteristics

- Mountain Ash: berries and many leaflets
- Boxelder: leaf shape and 2-sided seed
- Shagbark hickory: bark and seed
- Elm: alternate leaflets
- Black Walnut: seeds and many leaflets
- Prickly Ash: bark

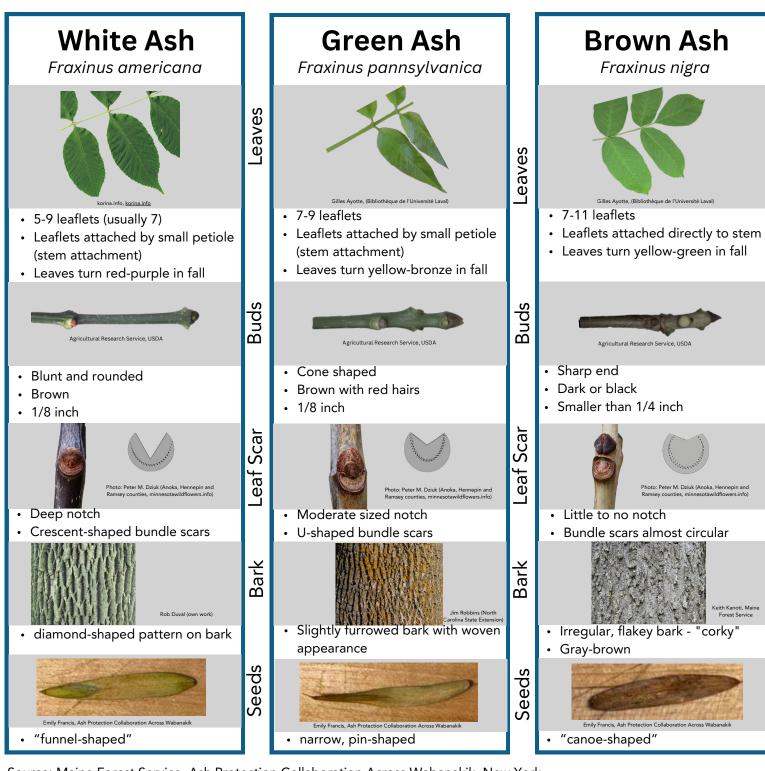


Source: Maine Forest Service

# Fraxinus spp.

## **Native to Maine**

Distinguishing characteristics of White, Green, and Brown Ash



Source: Maine Forest Service, Ash Protection Collaboration Across Wabanakik, New York Botanical Garden Field Guide to the Ash Trees of the Northeastern United States



### Crown Dieback

or canopy thinning

FAB larvae feed under the bark cutting off the tree's ability to move water and nutrients, which causes the leaves to die.





# SPOTTING SIGNS OF

EMERALD ASH BORER



When EAB adults exit the tree they leave behind Dshaped holes.





First identified in Maine in 2018, the EAB attacks all true Ash trees (Fraxinus spp). If you spot an EAB or signs of EAB damage in an Ash tree in your area, please contact the Maine Forest Service.

https://tinyurl.com/EABinMaine





### Woodpecker Activity

or "blonding"

As woodpeckers search for insects and larvae in the bark, they create a "blonding" effect by tapping off bits of bark.







Source: Maine Dept. of Agriculture, Conservation & Forestry, University of Wisconsin-Madison Ext. Photo Credits (clockwise from top right): Edward Czerwinsk (Ontario Ministry of Natural Resources), Kelly Oten (NC State Ext), PA Department of Conservation and Natura - Forestry, Joshlaymon (Own work, Wi , Kenneth R. Law (USDA Bugwood.or Hargrave (Cornell Cooperative Extension Daniel Herms (Ohio State University, www. bugwood.org PA Department of Conservation and Natural Resources Howard Russell, Michigan State University, Bugwood.org



#### **Epicormic** Shoots

When trees are in distress they send out new growth towards the bottom of the tree.



## Snake-**Shaped Galleries**

FAB leave snake shaped channels just under the bark as the larvae feed.



## **Bark Splitting**

When EAB feed under the bark, trees try to cover the wounds. This causes the bark to split vertically

# Fraxinus spp.

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Male vs. Female Ash Trees

## Female Ash Tree



Budding of female tree



Stringy ends where seeds are attached



Dried ends where seeds would have been attached



Brown Ash Seed from Female Tree

## Male Ash Tree





Tuft-like flowers on the branches of ash trees

