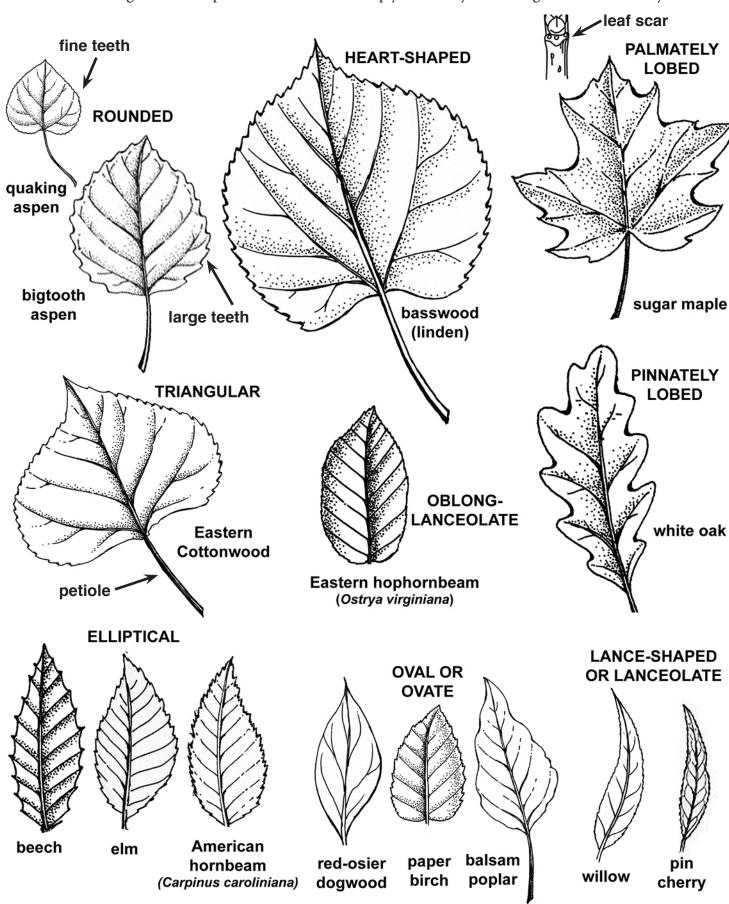
## Simple Leaf Guide

Knowing tree leaf shapes and structures will help you identify trees using a dichotomous key.



## **DECIDUOUS TREE DICHOTOMOUS KEY** 1. Opposite branching (2) 1. Alternate branching (4) 2. Compound leaves (3) 2. Simple leaves: Maple species (see a-c below) a. Leaf margins smooth, 5 lobes .......... Sugar Maple (Acer saccharum) b. Leaf margins double-toothed, 3 to 5 lobes..... Red Maple (Acer rubrum) c. Leaf margins single-toothed, 3 to 5 lobes, lobes separated by deep, angular openings......Silver Maple (Acer saccharinum) 3. Three (rarely 5) leaflets..... **Box Elder** (*Acer negundo*) 3. Five to 11 leaflets: Ash species (see a-c below) a. 9 to 11 leaflets, leaflets do not have petiole...... Black Ash (Fraxinus nigra) b. 5 to 9 leaflets, leaflets have petiole, smile-shaped leaf scar extending up sides of new bud.......White Ash (Fraxinus americana) c. 7 to 9 leaflets, leaflets have petiole, leaf scar ends at base of new bud..... **Green Ash** (*Fraxinus pennsylvanica*) 4. Compound leaves (5) 4. Simple leaves (8) 5. 7 or fewer (usually 5) leaflets, egg-shaped nut......... Shagbark Hickory (Carya ovata) 5. 7 or more leaflets (6) 6. Leaflets pointed (7) 7. Leaf 8 to 24 inches long ....... **Butternut** (*Juglans cinerea*). 8. Leaves not lobed (9) or Black Walnut (Juglans nigra) 8. Leaves lobed: Oak species (see a-f below) a. Rounded lobes, 5 to 9 deep even lobes and sinuses, leaves hairless...... White Oak (Quercus alba) b. Rounded lobes, pair of deep sinuses near middle of leaf, hairy underside of leaves.... **Bur Oak** (*Quercus macrocarpa*) c. Rounded lobes, leaf narrow at base and broad near middle, hairy underside of leaves.... **Swamp White Oak** (*Quercus bicolor*) d. Pointed lobes, sinues extend halfway to mid-vein, leaves hairless, dull green..... Red Oak (Quercus rubra). e. Pointed lobes, deep sinues extend 3/4 of the way to mid-vein, leaves hairless,

bright green and shiny.... **Northern Pin Oak** (*Quercus ellipsoidalis*) f. Pointed lobes, deep sinues, young leaves hairy underneath, dark green

and shiny, leathery.....Black Oak (Quercus velutina)

