

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 rounded **Black Locust** (*Robinia pseudonacacia*)

6. Leaflets pointed (7)

7. Leaf 6 to 8 inches long **Mountain Ash** (*Sorbus americana*)

7. Leaf 8 to 24 inches long **Butternut** (*Juglans cinerea*),
or **Black Walnut** (*Juglans nigra*)

8. Leaves not lobed (9)

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, sinuses extend halfway to mid-vein, leaves hairless, dull green.... **Red Oak** (*Quercus rubra*)

e. Pointed lobes, deep sinuses extend 3/4 of the way to mid-vein, leaves hairless, bright green and shiny.... **Northern Pin Oak** (*Quercus ellipsoidalis*)

f. Pointed lobes, deep sinuses, young leaves hairy underneath, dark green and shiny, leathery.....**Black Oak** (*Quercus velutina*)



Dichotomous Key For Leaf Identification

Frank Alwin Roth



Dichotomous Key For Leaf Identification:

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