

## TREE IDENTIFICATION KEY

#### **BEGIN HERE:**

#### **CONIFER KEY**

- 1. Needles in bundles or groups (2)
- 1. Needles single or flattened and scaly (3)
  - 2. Needles in clusters of more than 5 needles......tamarack\* (Larix laricina)
  - 2. Needles 2 to 5 per bundle: Pine species (see a-c below)
    - a. Five needles per bundle......white pine (Pinus strobus)
    - b. Needles in pairs, 3 to 4 inches long.....red pine (*Pinus resinosa*)
    - c. Needles in pairs, under 2 inches long, bark dark gray ......jack pine (Pinus banksiana)
- 3. Needles scaly and flattened (4)
- 3. Needles single (5)
  - 4. Has cones, scales flat, branches fan-like.....northern white-cedar (Thuja occidentalis)

- 4. Has berries, may have scaly and prickly needles on same tree, scales rounded.....eastern redcedar (Juniperus virginiana)
- 5. Needles flat (6)
- 5. Needles square, 4-sided, stiff, sharp: Spruce species (see a-b below)
  - a. Needles 1/3 to 3/4 inch long, twigs hairless......white spruce (*Picea glauca*)
  - b. Needles 1/3 to 3/4 inch long, twigs have

hair, grows in wet areas ......black spruce (Picea mariana) 

6. Needles 1/2 inch long with short petiole.....eastern hemlock (Tsuga canadensis)

6. Needles 3/4 inch to 1 1/4 inches long, no petiole, bubbles in bark balsam fir (Abies balsamea)

<sup>\*</sup>Note: A tamarack is a deciduous conifer.

### **4B**

# TREE IDENTIFICATION KEY **BROADLEAF KEY**

- 1. Opposite branching (2) 1. Alternate branching (4) 2. Compound leaves (3) 2. Simple leaves: Maple species (see a-c below) a. Leaf margin entire, 5 lobes ...... sugar maple (Acer saccharum) b. Leaf margin double-toothed, 3 to 5 lobes .....red maple (Acer rubrum) c. Leaf margin single-toothed, 3 to 5 lobes, lobes separated by deep, angular openings...... silver maple (Acer saccharinum) 3. 5 to 11 leaflets: Ash species (see a-c below) a. 7 to 13 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 pseudoacacia) 6. Leaflets pointed (7) 7. Leaf 8 to 24 inches long......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)



# TREE IDENTIFICATION KEY BROADLEAF KEY

- 9. Bark not papery (10)
- 9. Bark papery: Birch species (see a-c below)

<ul> <li>a. Leaf margin single-toothed, white peeling bark</li></ul>
<ul> <li>10. Leaf petioles flat (11)</li> <li>10. Leaf petiole round (12)</li> <li>11. Leaf triangular-shaped with coarse teetheastern cottonwood (<i>Populus deltoides</i>)</li> <li>11. Leaf oval: Aspen species (see a-b below)</li> </ul>
a. Leaves have small, fine teeth less than 1/16 inchtrembling aspen (Populus tremuloides) b. Leaves have large teethbigtooth aspen (Populus grandidentata)
12. Leaves nearly as wide as long (13) 12. Leaves longer than wide (14) 13. Leaf margin finely toothed
<ul> <li>14. Leaf at least 3 times as long as widewillow species (common species include weeping willow and black willow)</li> <li>15. Leaf veins thin and branch often (16)</li> <li>15. Leaf veins thick and run from center to edge of leaf without branching (17)</li> </ul>
16. Fine blunt teeth, leaves 2 to 6 inches long, bark dark
and hairy, leaf base asymmetrical
18. Most leaf bases even, seed in elongated clusters ironwood (Ostrya virginiana)  18. Leaf base uneven, seeds flat and paperyelm species (common species include American elm, rock elm, and slippery elm)