the the the the the the the the	" But	
TREE IDENTIFICATION KEY		
<b>BEGIN HERE:</b> Tree has <b>needles</b> Tree has <b>broad leaves</b>		
CONIFER KEY		
TREE IDENTIFICATION KEY		
<ol> <li>Needles in bundles or groups (go to #2)</li> <li>Needles single or flattened and scaly (go to #3)</li> <li>Needles in clusters of more than 5 needles</li></ol>	k* (Larix laricina)	
a. Five needles per bundle <b>white pine (Pine</b> ) ) b. Needles in pairs, 3 to 4 inches long <b>red pine (Pinu</b> ) ) c. Needles in pairs, under 2 inches long,		
<ul><li>3. Needles scaly and flattened (go to #4 below)</li><li>3. Needles single (go to #5)</li></ul>		
<ul> <li>4. Has cones, scales flat, branches fan-likenorthern white-cedar (Thu)</li> <li>4. Has berries, may have scaly and prickly needles on same tree, scales r</li> <li></li></ul>	ounded	
5. Needles flat (go to #6)		

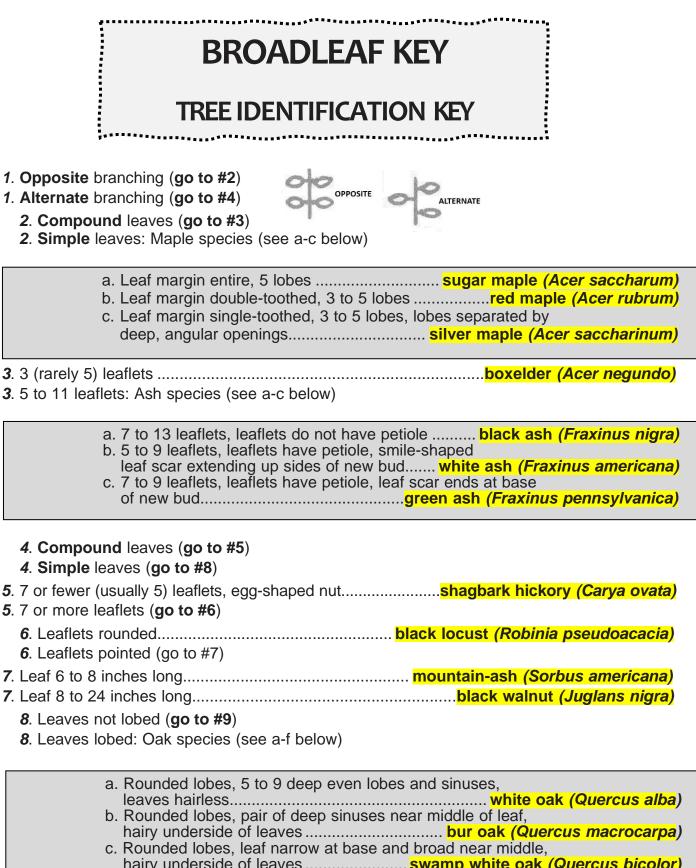
5. Needles square, 4-sided, stiff, sharp: Spruce species (see a-b below)

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.......

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)

\*Note: A tamarack is a deciduous conifer.



- 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
- f. Pointed lobes, deep sinuses, young leaves hairy underneath, dark green and shiny, leathery......black oak (Quercus velutina)

## BROADLEAF KEY TREE IDENTIFICATION KEY

9. Bark not papery (go to #10)

**9**. **Bark** papery: Birch species (see a-c below)

a. Leaf margin single-toothed, white peeling bark......white birch (Betula papyrifera)
b. Leaf margin double-toothed, dull green leaves, yellow or bronzed bark ......yellow birch (Betula alleghaniensis)
c. Leaf margin double-toothed, shiny green

## 10. Leaf petioles (leaf stem) flat (go to #11)

## 10. Leaf petiole (leaf stem) round (go to #12)

11. Leaf triangular-shaped with coarse teeth ......eastern cottonwood (Populus deltoides)

11. Leaf oval: Aspen species (see a-b below)

 a. Leaves have small, fine teeth less than 1/16 inch...... trembling aspen (Populus tremuloides)
 b. Leaves have large teeth......bigtooth aspen (Populus grandidentata)

<ul><li>12. Leaves nearly as wide as long (go to #13)</li><li>12. Leaves longer than wide (go to #14)</li></ul>	
13. Leaf margin (edge) finely toothed	balsam poplar (Populus balsamifera)
13. Leaf margin (edge) coarsely toothed	
14. Leaf less than 3 times as long as wide (go t	to #15)
14. Leaf at least 3 times as long as wide	willow species (common species
	include weeping willow and black willow)
<b>15</b> . Leaf veins thin and branch often (go to #16)	
15. Leaf veins thick and run from center to edge of	of leaf without branching ( <b>go to #17)</b>
16. Fine blunt teeth, leaves 2 to 6 inches long,	
-	black cherry <i>(Prunus serotina)</i>
16. Sharp pointed teeth, leaves 2 to 4 inches lo	ng
and hairy, leaf base asymmetrical	hackberry (Celtis occidentalis)
17. Leaf shiny and leathery (thick), coarse sharp to	eeth <b>beech <i>(Fagus grandifolia)</i></b>
17. Leaf dull and rough (go to #18)	
18. Most leaf bases even, seed in elongated clus	sters <mark>ironwood (Ostrya virginiana)</mark>
18. Leaf base uneven, seeds flat and papery	elm species (common species
include A	merican elm, rock elm, and slippery elm)