## TREE IDENTIFICATION KEY - CONIFER

	BEGIN HERE:  Tree has needles	
	Needles in bundles or groups (2) Needles single or flattened and scaly (3)  2. Needles in clusters of more than 5 needles	i)
	a. Five needles per bundle	
	Needles scaly and flattened (4)  Needles single (5)  4. Has cones, scales flat, branches fan-like	s)
5. 5.	tree, scales rounded	
6. 6.	Needles ½ inch long with short petioleeastern hemlock ( <i>Tsuga canadensis</i> Needles ¾ inch to 1¼ inches long, no petiole, bubbles in barkbalsam fir ( <i>Abies balsamea</i>	

\* NOTE: A tamarack is a deciduous conifer.

## TREE IDENTIFICATION KEY - BROADLEAF

1. 1.	Alt	posite branching (2) ernate branching (4) Compound leaves (3) Simple leaves: Maple species (see a-c below)
		a. Leaf margin entire, 5 lobes
3.	-	rarely 5) leaflets
		a. 7 to 13 leaflets, leaflets do not have petiole black ash ( <i>Fraxinus nigra</i> ) b. 5 to 9 leaflets, leaflets have petiole, smile-shaped
		leaf scar extending up sides of new bud
		Compound leaves (5)
		Simple leaves (8) or fewer (usually 5) leaflets, egg-shaped nut <b>shagbark hickory <i>(Carya ovata</i>)</b>
	7 c	or more leaflets (6)
		Leaflets roundedblack locust (Robinia pseudoacacia
7		Leaflets pointed (7)
		af 6 to 8 inches long <b>mountain ash <i>(Sorbus americana</i></b> 8 to 24 inches long <b>black walnut <i>(Juglans nigra</i></b>
•		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
		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 greenred oak (Quercus rubra)
		e. Pointed lobes, deep sinuses extend ¾ of the way to mid-vein, leaves hairless, bright green and shinynorthern pin oak (Quercus ellipsoidalis)
		f. Pointed lobes, deep sinuses, young leaves hairy underneath,
		dark green and shiny, leatheryblack oak (Quercus velutina)

## TREE IDENTIFICATION KEY - BROADLEAF

9. Bark not papery (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 leaves, reddish-brown to silvery-gray bark ......river birch (Betula nigra) 10. Leaf petioles flat (11) 10. Leaf petiole round (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) 12. Leaves nearly as wide as long (13) 12. Leaves longer than wide (14) 13. Leaf margin finely toothed......balsam poplar (Populus balsamifera) 13. Leaf margin coarsely toothed......basswood (Tilia americana) 14. Leaf less than 3 times as long as wide (15) 14. Leaf at least 3 times as long as wide...... willow species (common species include weeping willow and black willow) 15. Leaf veins thin and branch often (16) 15. Leaf veins thick and run from center to edge of leaf without branching (17) 16. Fine blunt teeth, leaves 2 to 6 inches long, bark dark......black cherry (Prunus serotina) 16. Sharp pointed teeth, leaves 2 to 4 inches long

17. Leaf dull and rough (18)

and hairy, leaf base asymmetrical......hackberry (Celtis occidentalis)

include American elm, rock elm, and slippery elm)

17. Leaf shiny and leathery (thick), coarse sharp teeth...... beech (Fagus grandifolia)

18. Most leaf bases even, seed in elongated clusters......ironwood (Ostrya virginiana)
18. Leaf base uneven, seeds flat and papery.....elm species (common species