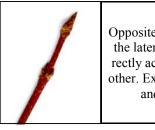
# Winter Tree Key

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Trees that, for the most part, hold on to their leaves in the winter are called **CONIFEROUS** ("cone bearing" in Latin) trees, **EVERGREENS** or **SOFTWOODS.** The leaves are needle or scale-like. Softwood trees are "softer" in density, and ideal for pulp and paper. Coniferous forests are home to many fur-bearing mammals that don not migrate in the winter. Pine trees are an example of an Evergreen tree.

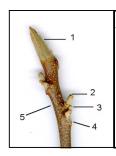
Trees that, for the most part, lose their leaves in the winter are called **DE-CIDUOUS** ("falling off" in Latin) trees, **BROAD-LEAVED TREES** or **HARDWOODS.** Hardwood trees are "harder" in density, and are used for furniture and flooring. A hardwood log in your fire will burn longer and hotter than a softwood log of the same size. Maple trees are an example of a Broad –leafed tree.

Well using this key, a small ruler and hand lens may be useful in identifying the trees.



Opposite Arrangement the lateral buds are directly across from each other. Examples - Ashes and Maples.

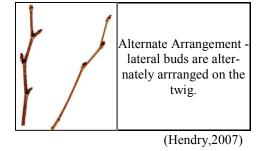
(Hendry, 2007)



A twig of Butternut showing:

- 1. Terminal bud
- 2. Leaf Bud
- 3. Flower Bud
- 4. Leaf scar
- 5. Lenticels

(Hendry, 2007)



A twig of Butternut showing:

1 Lateral bud
2 Leaf scar
3 Vascular bundle scars

(Hendry, 2007)

## **WINTER TREE ID KEY**

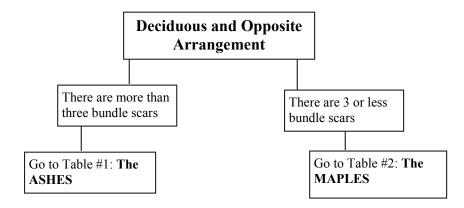
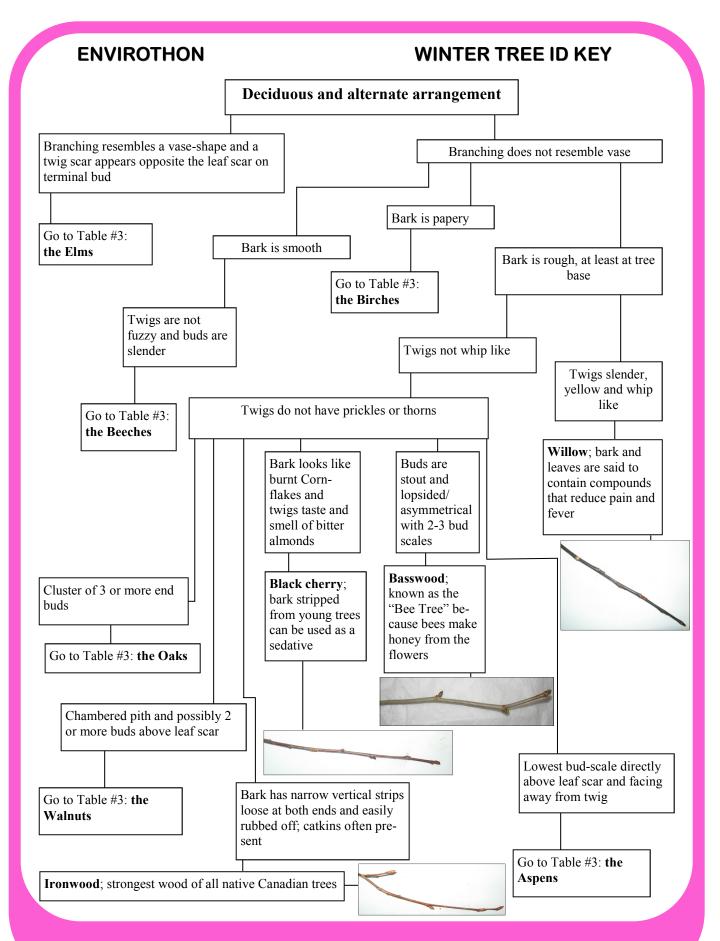


Table #1: the ASHES

White ash	Bark Long single trunk; light gray; narrow ridges in a regular diamond pattern	Twigs Stout; light to deep brown; shiny or dull grayish	Buds Uppermost lateral buds touch terminal bud; "white is tight"	Cool Fact Tough, light and almost white, it is ideal for baseball bats, hockey sticks and tool handles
Black ash	Long single trunk; light gray; soft; loose and scaly; corky ridges easily rubbed off	Stout; grayish and dull; never shiny	Uppermost lateral buds do not touch the terminal buds; "black is slack"	Wood can be permanently bent, so it is perfect for snowshoes; long single truck makes it flexible in the wind

Table #2: the MAPLES

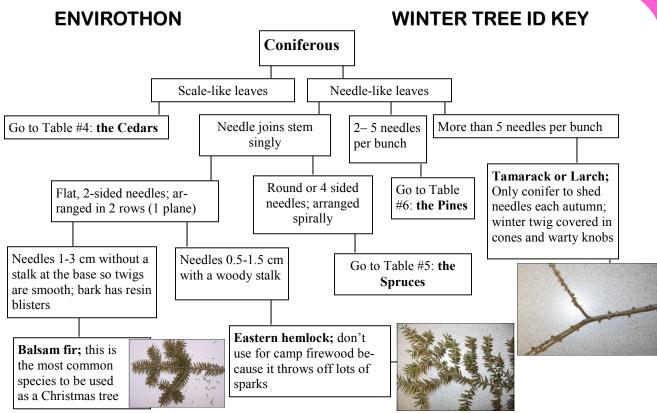
Sugar maple	Bark Dark-gray plates; curl out at one end; bark peels at sides of vertical strip	Twigs Shining reddish- brown to green; hairless	Buds Sharp-pointed; many scales spi- rally arranged; hairy scales; red- dish brown	Cool Fact Used to make maple syrup
Red maple	Plates curling at ends; flaky; bark peels from top and bottom of verti- cal strips	Shining red to grayish-brown; hairless	Hairless; blunt; broad; red to grayish- brown; smooth; shiny	Used by First Nations to cure cataracts and hives
Silver maple	Dark reddish-brown; long, thin flakes; shaggy looking	Same as above	Same as above	Twigs have an unpleasant odour when broken

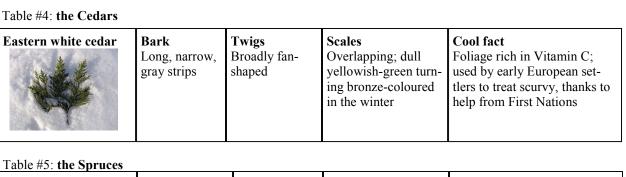


# WINTER TREE ID KEY

Table #3: Deciduous Alternate Arrangement

Table #3: Deciduous Alterna Species	Bark	Twigs	Buds	Cool fact
White Elm	Light and dark layers; ash-gray to grayish- brown	Smaller buds closer to end of twig; narrow; relatively hairless; zigzag pattern	4-8 mm; light hairy scales; terminal bud tilted; sharp-pointed	Commonly used for railroad ties because of its strength and dura- bility
American Beech	Light bluish-gray; thin	Slightly zigzag; slender, light brown	2-3 cm; sharp- pointed; slender; diverge from twig; many scales; bristly nut may be present	Its smooth bark makes it perfect for initial carving
White Birch	Powdery; white; peels easily	Reddish-brown	Green-brown; sticky	Bark is used to make canoes and wigwams
Yellow Birch	Caldan, in mlatas, dans	Caman aslamad	Day on d bassan	Tanian harranin
	Golden; in plates, does- n't peel easily	Copper-coloured	Dry and brown	Twigs have wintergreen smell and TASTE
Red Oak	Red lines between ridges; wide, flat gray ridges	Acorn cups may be present	6-8 mm; sharp- pointed; hairless except at tip; red- dish	Oak galls, the product of an interaction between insects and oak trees, were once used to make ink
White Oak	Light ash-gray; scaly	Hairless	Rounded reddish- brown scales; hair- less; lateral buds spread wide from twig	Carrying a piece of this tree is said to bring good luck
Bur Oak	Light gray-brown; deeply furrowed and ridged	Corky ridges	3-7 mm; rounded terminal bud; woody hairs pro- jecting past bud	These slow- growing and long- lived trees have been known to live up to 1000 years
Black Walnut	Deeply furrowed; almost black; intersecting ridges	Stout; orange-brown; a little hairy; cham- bered pith	Hairy and light brown; 8-10 mm; no hairy pad be- tween bud and leaf scar	Sends out chemi- cal "poison" into the ground to pre- vent growth of other plants
Large tooth Aspen	Upper crown rusty or- ange-green; generally green-yellow	Hairless or slightly silky	0.5-1 cm; fine gray hairs; "dull"	The main use of the wood is for paper
Trembling Aspen	Smooth with a waxy appearance; upper crown creamy white; mature bark darker and rougher at base of tree	Slender, shiny	0.5-1 cm; reddish- brown; sharp- pointed; appear waxy and hairless	The wood is commonly used for sauna benches
Balsam Poplar	Gray-black; deeply fissured	Reddish-brown to dark orange to gray with age	1-3 cm; 5 bud scales; sticky; aro- matic	Bitter aspen taste





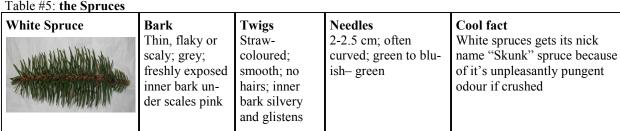


Table #6: the Pines			
White pine	Bark Dark-grey; rectangular block-like appearance	Needles Bunches of 5, soft and flexible; bluish- green	Cool fact Long, strait trunks historically used as masts for wooden sailing ships
Red pine	Large pink and gray scales	Bunches of 2; 10-15 cm; straight; shiny, dark green sheath at base	The name comes from the colour of the bark
Jack pine	Think red-brown flakes	Bunches of 2; 2-4 cm; spread apart	Cones remain closed for many years unless exposed to extreme heat, as in a forest fire

#### WINTER TREE ID KEY



All pictures in this document, excluding those on page 1, were taken by: Angela Gillespie and Denise Derrick

Website consulted in the creation of this document include:

http://wmuma.com/nature/trees/wintertreeiddec2000.html

http://gaia.flemingc.on.ca/~dhendry/specdes.htm

http://www.umaine.edu/umect/mainetreeclub/MTC.htm

http://www.museum.state.il.us/muslink/forest/htmls/trees.html

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