Tree Identification

of Common Tree Species found in Ontario

As simple as one – two – tree!



Topics covered

- What is a tree?
- Forest regions of Canada
- Coniferous vs. Deciduous
- What's in a name?
- Identification features
- Coniferous trees of Ontario
- Deciduous trees of Ontario

What is a tree?

- Woody perennial plant
- Grows to a height of at least 4.5 m
- Two divisions:
 - Pinophyta (cone-bearing plants)
 - Magnoliophyta (flowering plants)



Coniferous vs. Deciduous

Coniferous

- Also known as softwoods and evergreens
- Bears a needle-like or scale-like leaves
- Needle or scale-like leaves do not fall in autumn (except for larch)
- Bears a cone
- 14 native species in Ontario

Deciduous

- Also known as hardwoods and broadleaf trees
- Bears a leaf
- Leaves fall off the tree in the autumn
- Has a true flower
- 84 native species in Ontario

What's in a name?

- Each tree has a common name and a scientific name.
- Common name may change depending on where you live
- Scientific names are grouped by Family, Genera and Species and never change.
 - Common Name: Sugar maple
 - Scientific name: *Acer saccharum* Marsh.
 - Family: Aceraceae
 - Genus: Acer
 - Species: Saccharum
 - Person who named the tree: Marsh.

How to identify a tree?

- Learn the tree identification features
- Know your site or habitat
 - Upland, lowland, soil type
- Use a tree identification key
- Determine whether coniferous or deciduous.
- Check to see bud or leaf arrangement

Tree Identification Features

- 1. Leaf
- 2. Twig and bud
- 3. Bark
- 4. Size and form
- 5. Shade tolerance
- 6. Seed
- 7. Wood
- 8. Site or habitat

1. Leaf identification

- A: Leaf type
- B: Arrangement on twig
- C: Leaf shape
- D: Leaf margin

A: Leaf Types

- Simple or Compound Leaf
- Scale-like Leaf
- Needle-like Leaf
 - Singly on twig
 - In bundles of 2, 3, 5 or more



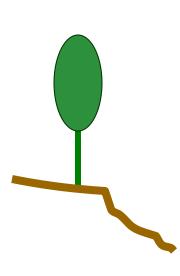
Leaf Types continue

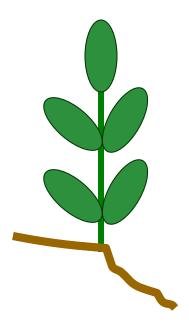
Simple

undivided

Compound

Divided into leaflets







Leaf Types continue

Scale-like Leaf Ne



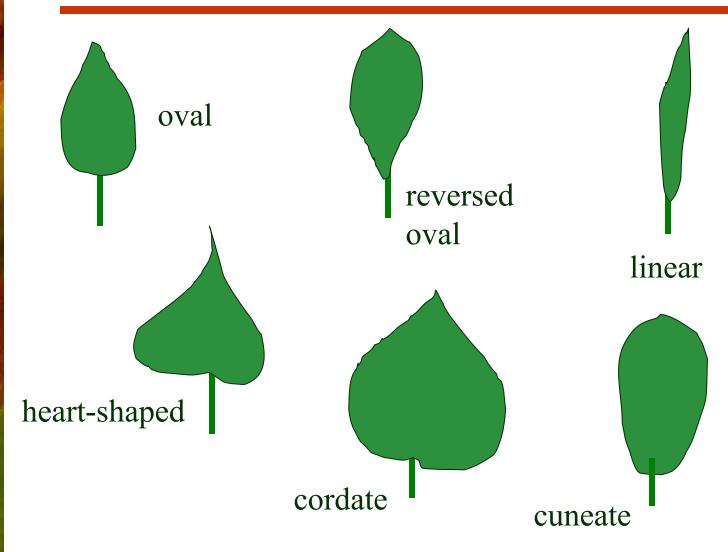
Needle-like Leaf



B: Leaf Arrangement

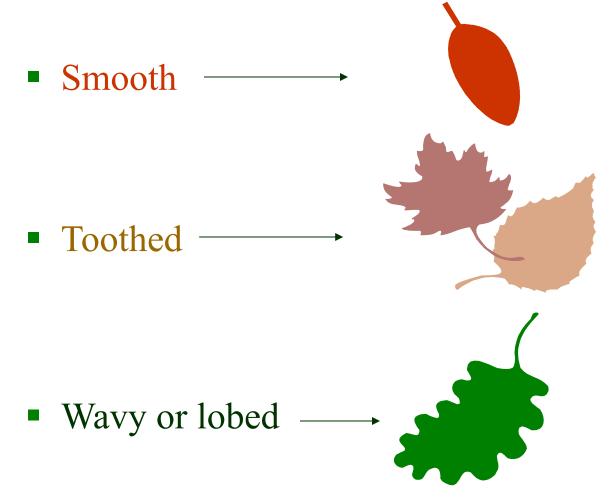
- Alternate
 - Leaves grow alternately on twig
- Opposite
 - Leaves grow opposite of each other on twig
- Whorled
 - Leaves grow in a circular fashion on the twig

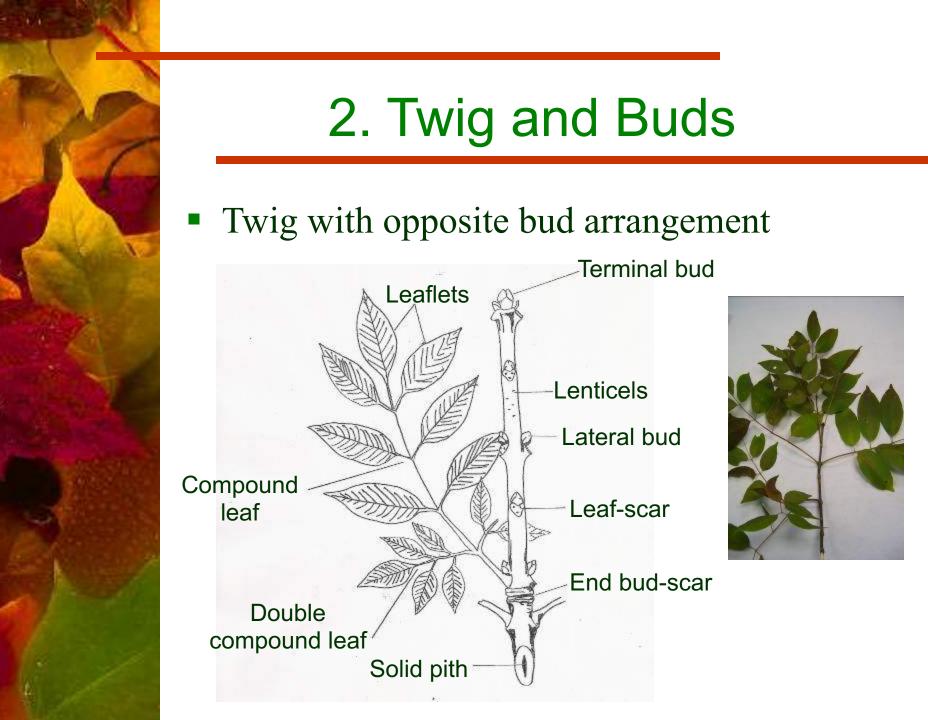






D: Leaf Margins





Twig and Buds continue

Twig with alternate bud arrangement

Leaf

stalk

Vein

Terminal bud

Lateral

bud

Lenticels

Leaf tip Midrib Lobe



Sinus or Cleft



3. Bark

Identifying features:Colour

White



• Structure Flaky



Grey

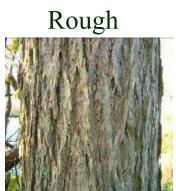


Brown/Black



Smooth





3. Bark

Identifying features:

Pattern



Furrowed



Flat Topped Ridges



3. Bark

Varies by age and growth rate





4. Size and Form • Form refers to the shape of the crown, the branches and the trunk. • Each species has a characteristic form when grown in the open





5. Shade Tolerance

- All tree species have a tolerance level for shade.
 - Intolerant
 - Species that cannot survive in shaded conditions. They need direct sunlight to grow.
 - Intermediate
 - Species that can survive in partially shaded conditions.
 - Tolerant
 - Species that can live in shaded conditions

Shade Tolerance Chart

Tolerant	Intermediate	Intolerant		
Hemlock	White pine	Red pine		
Balsam fir	Yellow birch	Walnut		
Ironwood	Oak	Butternut		
Beech	Elm	Hickory		
Sugar maple	Ash	White birch		
	Spruce	Black cherry		
	Cedar	Tamarack		
	Red maple	Jack pine		
	Silver maple	Willow		
	Basswood	Aspens		
		Poplars		
		Grey birch		

6. Seed

- Acorns and Nuts
 - e.g. oaks, American beech, American chestnut
- Winged
 - e.g. maples, eastern hemlock, spruces
- Fleshy fruit and pods
 - e.g. viburums, dogwoods, black locust

7. Wood

Density

- Colour
- Grain





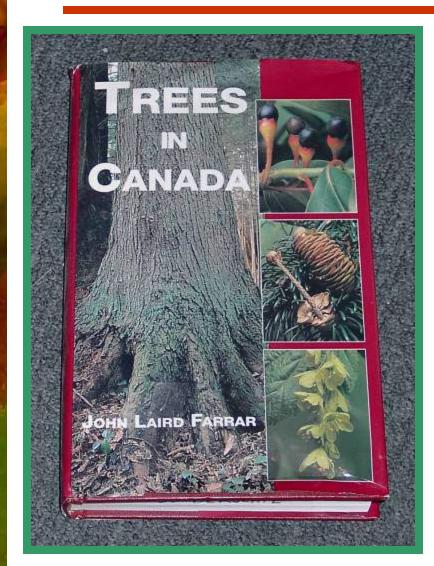




8. Site or Habitat

- Soil structure, texture and fertility, moisture regime, slope and aspect and climate all have an impact on species of trees growing on a particular site
- Examples:
 - Bog black spruce, larch
 - Upland, rocky terrain sugar maple, hickory, beech, red oak, jack pine
 - Lowland black ash, red maple, elm, tamarack

Trees of Canada



A great source of information!

Written by: John Laird Farrar

ISBN: 1-55041-199-3

Published by: Fitzhenry & Whiteside Limited and the Canadian Forest Service, Natural Resources Canada

Coniferous

Needle Trees, Evergreens, Softwoods Class: Magnoliopsida Division: Pinophyta



Caring for Your Land Series of Workshops

Coniferous Leaf

Scale-like Leaf

- Needle-like Leaf
 - Singly on twig
 - Needles in bundles

Scale-Like Leaf

Caring for Your Land Series of Workshops





Eastern Red-Cedar

Juniperus virginiana Eastern Juniper, Red juniper







Eastern White Cedar

Thuja occidentalis

 Northern White Cedar, Swamp Cedar, Eastern Arbovitae









Other Conifers with Scale-Like Leaves

common juniper	Juniperus communis	shrub	native	ON, Canada
creeping juniper	Juniperus horizontalis	shrub	native	ON, Canada
chinese juniper	Juniperus chinensis	shrub	alien	Asia
savin juniper	Juniperus sabina	shrub	alien	Europe
oriental cedar	Thuja orientalis	tree	alien	Asia
sawara-cypress	Chamaecyparis pisifera	tree	alien	Japon
hinoki-cypress	Chamaecyparis obtusa	tree	alien	Japon

Needle-Like Leaf

* Singly on Twig *

Caring for Your Land Series of Workshops

Balsam Fir

- Abies balsamea
- Canada Balsam, Canada Fir, White Fir









White Spruce

Picea glauca

Cat Spruce, Skunk Spruce, Pasture Spruce, Canadian Spruce









Blue Spruce

- Picea pungens
- Colorado Spruce, Silver Spruce









Red Spruce

Picea rubens

Eastern Spruce, Yellow Spruce







Black Spruce

Picea mariana

Bog Spruce, Swamp Spruce









Norway Spruce

- Picea abies
- Common Spruce







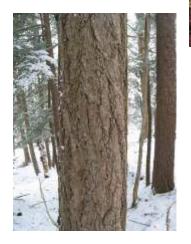


Eastern Hemlock

Tsuga canadensis

Canada Hemlock, Hemlock Spruce













Other Conifers with Needle-Like Leaves (Single Needles)

dawn redwood	Metasequoia glyptostroboides	tree	alien	Asia
bald-cypress	Taxodium distichum	tree	alien	USA
japanese-cedar	Cryptomeria japonica	tree	alien	Asia
noble fir	Abies procera	tree	alien	USA
nordmann fir	Abies nordmanniana	tree	alien	Europe
spanish fir	Abies pinsapo	tree	alien	USA
white fir	Abies concolor	tree	alien	USA
serbian spruce	Picea omorika	tree	alien	Europe
english yew	Taxus baccata	tree	alien	Europe
japonese yew	Taxus cuspidata	shrub	alien	Japon
canada yew	Taxus canadensis	shrub	native	ON, Canada

Needle-Like Leaf

* Needle Bundles *

Caring for Your Land Series of Workshops



Red Pine

- Pinus resinosa
- Norway Pine









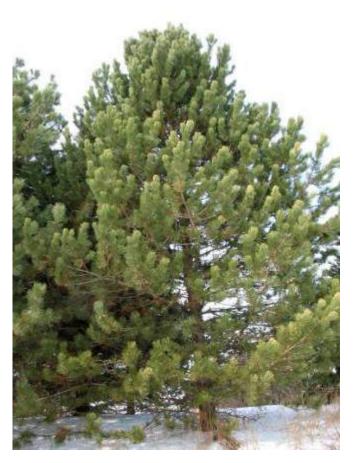
Austrian Pine

- Pinus nigra
- European Black Pine









Jack Pine

- Pinus banksiana
- Black Pine, Gray Pine, Scrub Pine, Banksian Pine









Scots Pine

- Pinus sylvestris
- Scotch Pine











Mugho Pine

Pinus mugo

Swiss Mountain Pine









Eastern White Pine

Pinus strobus

 Northern White Pine, Weymouth Pine



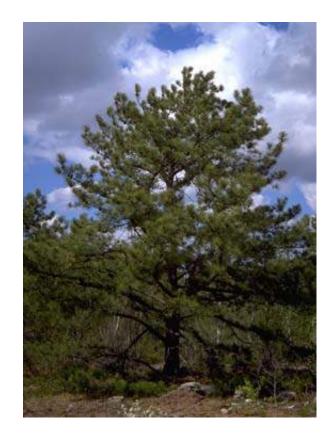






Pitch Pine

Pinus rigida







Tamarack

Larix laricina

American Larch, Alaska Larch











European Larch

Larix decidua











Other Conifers with Needle-Like Leaves (Needles in Bundles)

umbrella-pine	Sciadopitys verticillata	tree	alien	Japon
bristlecone pine	Pinus aristata	tree	alien	USA
japanese larch	Larix kaempferi	tree	alien	Japon
siberian larch	Larix sibirica	tree	alien	Asia
deodar cedar	Cedrus deodara	tree	alien	Asia
atlas cedar	Cedrus atlantica	tree	alien	Africa
cedar-of-lebanon	Cedrus libani	tree	alien	Asia

Deciduous

Broadleaf, Hardwoods, Flowering Trees Division: Magnoliophyta Class: Magnoliopsida



Caring for Your Land Series of Workshops

Opposite Leaf Arrangement

Simple Leaf Type

Caring for Your Land Series of Workshops



Sugar Maple

- Acer saccharum
- Hard Maple, Rock Maple, Bird's-Eye Maple







Red Maple

Acer rubrum

Swamp maple, soft maple











Silver Maple

Acer saccharinum

• Soft maple, White Maple, River Maple











Black Maple

- Acer nigrum
- Black Sugar Maple, Rock Maple









Mountain Maple

- Acer spicatum
- Dwarf Maple, Moose Maple







Striped Maple

- Acer pensylvanicum
- Moose Maple, Moosewood, Goosefoot Maple











Norway Maple

Acer platanoides









Norway Maple



"Columnare" "Erectum" "Olmsted"



"Crimson King" "Crimson Sentry"



"Drummondii " "Harlequin"



"Cleveland"



"Faasens Black"



"Globosum" "Globe"



"Schwedler"



"Emerald Queen"

Sweet Viburnum

- Viburnum lentago
- Nannyberry, Sheepberry







European Buckthorn

Rhamnus cathartica

Common Buckthorn, Purging Buckthorn













Other Deciduous Trees, Opposite Leaf Arrangement (Simple Leaves)

sycamore maple	Acer pseudoplatanus	tree	alien	Europe
amur maple	Acer ginnala	shrub- tree	alien	Asia
japonese maple	Acer palmatum	shrub- tree	alien	Asia
european cranberry viburnum	Viburnum opulus	shrub	alien (naturalized)	Europe
wayfaring viburnum	Viburnum lantana	tree	alien (naturalized)	Europe
squashberry viburnum	Viburnum edule	shrub	native	ON, Canada
cranberry viburnum	Viburnum trilobum	shrub	native	ON, Canada
eastern flowering dogwood	Cornus florida	tree	native	ON, Canada
cornelian-cherry	Cornus mas	shrub- tree	alien	Eurasia
kousa dogwood	Cornus kousa	tree	alien	Asia



Other Deciduous Trees, Opposite Leaf Arrangement (Simple Leaves)

common lilac	Syringa vulgaris	shrub- tree	alien (naturalized)	Europe
northern catalpa	Catalpa speciosa	tree	alien	USA
southern catalpa	Catalpa bignonioides	tree	alien	USA
burning-bush euonymus	Euonymus atropurpureus	shrub- tree	native	ON, Canada
european euonymus	Euonymus europaeus	tree	alien	Europe
winged euonymus	Euonymus alatus	shrub- tree	alien	Asia
button-bush	Cephalanthus occidentalis	shrub	native	ON, Canada
katsura-tree	Cercidiphyllum japonicum	tree	alien	Asia
silver buffalo-berry	Shepherdia argentea	shrub- tree	native	ON, Canada

Opposite Leaf Arrangement

Compound Leaf Type

Caring for Your Land Series of Workshops



Manitoba Maple

Acer negundo

Box-Elder, Ashleaf Maple









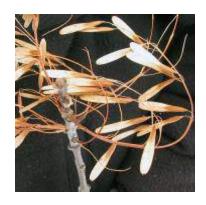
White Ash

- Fraxinus americana
- American Ash, Canadian White Ash









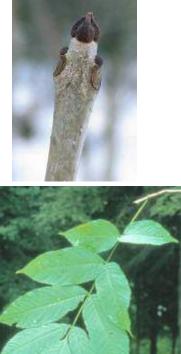


Black Ash

- Fraxinus nigra
- Swamp Ash, Hoop Ash, Basket Ash









Red Ash

*Fraxinus pennsylvanica*Green Ash, Soft Ash









Horsechestnut

Aesculus hippocastanum
Common horsechestnut, chestnut













Other Deciduous Trees, Opposite Leaf Arrangement (Compound Leaves)

ohio buckeye	Aesculus glabra	tree	alien	USA
green ash	Fraxinus pennsylvanica var. subintegerrima	tree	native	ON, Canada
northern red ash	Fraxinus pennsylvanica var. austini	tree	native	ON, Canada
blue ash	Fraxinus quadrangulata	tree	native	ON, Canada
pumpkin ash	Fraxinus profunda	tree	native	ON, Canada
european ash	Fraxinus excelsior	tree	alien	Europe
amur corktree	Phellodendron amurense	tree	alien	Asia
american elder	Sambucus canadensis	shrub	native	ON, Canada
eastern red elderberry	Sambucus pubens	shrub	native	ON, Canada

Alternate Leaf Arrangement

Compound Leaf Type

Caring for Your Land Series of Workshops

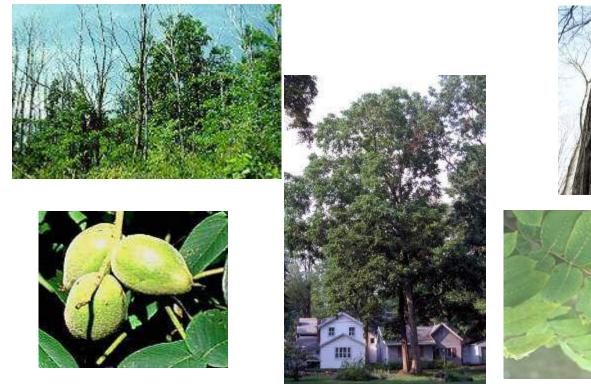




Butternut

Juglans cinerea

• White walnut, Lemon Walnut, Oilnut







Black Walnut

- Juglans nigra
- American walnut











Shagbark Hickory

Carya ovata

Upland hickory, Scalybark Hickory









Shellbark Hickory

- Carya laciniosa
- Big shagbark hickory, Kingnut Hickory, Big Shagbark Hickory







Red Hickory

- Carya glabra
- Pignut Hickory, Black Hickory, Broom Hickory









Bitternut Hickory

- Carya cordiformis
- Swamp Hickory











Kentucky Coffeetree

• Gymnocladus dioicus

Coffeenut











Black Locust

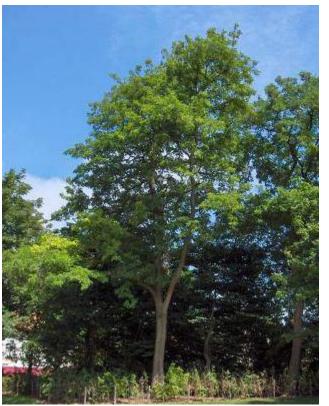
- Robinia pseudoacacia
- False Acacia, Common Locust





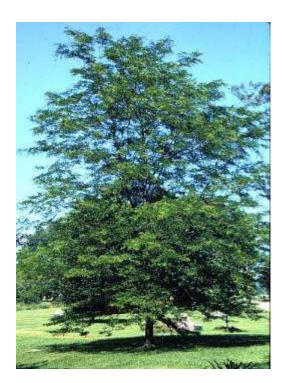






Honey Locust

- *Gleditsia triacanthos*
- Thorny Locust, Sweet Locust, Tree-Thorned Acacia











Showy Mountain Ash

Sorbus decora

Northern Mountain Ash, Dogberry



Staghorn Sumac

Rhus typhina

Velvet Sumac, Sumac Vinegar-Tree











Common Hoptree

- Ptelea trifoliata
- Wafer Ash, Stinking Ash, Three-Leaved Hop-Tree











Tree-of-Heaven

- Ailanthus altissima
- Ailanthus, Chinese-Sumac













Other Deciduous Trees, Alternate Leaf Arrangement, (Compound Leaves)

siberian pea-tree	Caragana arborescens	shrub- tree	alien	Asia
laburnum	Laburnum anagyrroides x Laburnum watereri	tree	alien	Europe
yellow-wood	Cladastis lutea	tree	alien	USA
japonese angelica- tree	Aralia elata	tree	alien	Asia
common prickly-ash	Zanthoxylum americanum	shrub- tree	native	ON, Canada
american mountain- ash	Sorbus americana	shrub- tree	native	ON, Canada
european mountain- ash	Sorbus aucuparia	tree	alien (naturalized)	Europe
shining sumac	Rhus copallina	shrub- tree	native	ON, Canada
smooth sumac	Rhus glabra	shrub	native	ON, Canada
poison-sumac	Toxicodendron vernix	shrub- tree	native	ON, Canada

Alternate Leaf Arrangement

Simple Leaf Type – Lobed Leaf Margins



Caring for Your Land Series of Workshops

Sycamore

- Platanus occidentalis
- Buttonball, American Sycamore, American Plane-Tree











Sassafras

- Sassafras albidum
- White Sassafras, Cinnamon-Wood, Greenstick, Mitten-Tree











Tulip Tree

Lirodendron tulipifera

Tulip-Poplar, Yellow-Poplar, Tulip-Magnolia, Whitewood









Red Oak

Quercus rubra

Northern Red Oak, Grey Oak











Black Oak

*Quercus velutina*Yellow Oak, Quercitron Oak











Pin Oak

Quercus palustris

• Swamp Oak, Spanish Oak, Water Oak











White Oak

• Quercus alba

• Stave oak, Northern White Oak









Bur Oak

Quercus macrocarpa

Blue Oak, Mossycup Oak, Scrubby Oak









Swamp White Oak

*Quercus bicolor*Blue Oak, Swamp Oak







Chinquapin Oak

- Quercus muehlenbergi
- Yellow Chestnut Oak, Yellow Oak, Rock Oak









<u>Other Deciduous Trees, Alternate Leaf</u> <u>Arrangement, (Simple Leaves, Lobed Margin)</u>

london plane-tree	Platanus occidentalis x Platanus orientalis	tree	alien	Europe
white mulberry	Morus alba	tree	alien (naturalized)	Asia
sweetgum	Liquidambar styraciflua	tree	alien	USA
northern pin oak	Quercus ellipsoidalis	tree	native	ON, Canada
shumard oak	Quercus shumardii	tree	native	ON, Canada
scarlet oak	Quercus coccinea	tree	alien	USA
dwarf chinquapin oak	Quercus prinoides	shrub- tree	native	ON, Canada
english oak	Quercus robur	tree	alien (naturalized)	Europe

Alternate Leaf Arrangement

Simple Leaf Type – Toothed Leaf Margins



Caring for Your Land Series of Workshops



Morus rubra













American Beech

*Fagus grandifolia*Red Beech





American Chestnut

- Castanea dentata
- Sweet Chestnut











Witch Hazel

- Hamamelis virginiana
- American Witch-Hazel, Snapping-Hazel, Spotted-Alder, Winterbloom



Basswood

Tilia americana

 American Linden, Whitewood, Spoonwood, Bee-Tree, Lime-Tree







White Birch

Betula papyrifera

 Paper Birch, Canoe Birch, Spoolwood, Silver Birch







Gray Birch

Betula populifolia

 White Birch, Swamp Birch, Fire Birch, Wire birch







Yellow Birch

- Betula alleghaniensis
- Gold Birch, Swamp Birch, Curly Birch, Red Birch, Newfoundland-Oak



Speckled Alder

- Alnus incana ssp.rugosa
- Tag Alder, Gray Alder, Hoary Alder, Red Alder, River Alder









Blue Beech

• Carpinus caroliniana

 American hornbeam, Musclewood, Ironwood, Smooth-Barked Ironwood





Ironwood

• Ostrya virginiana

 American Hop-Hornbeam, Leverwood, Deerwood, Rough-Barked Ironwood





Pussy Willow

- Salix discolor
- Tall Pussy Willow, Glaucous Willow, Pussy Feet



Black Willow

- Salix nigra
- Swamp Willow







Golden Weeping Willow

- Salix alba var. vitellina
- White Willow, Weeping Willow, Common Willow, French Willow



Balsam Poplar

Populus balsamifera

 Eastern Balsam Poplar, Hackmatack, Balm Poplar, Balsam, Rough-Barked Poplar

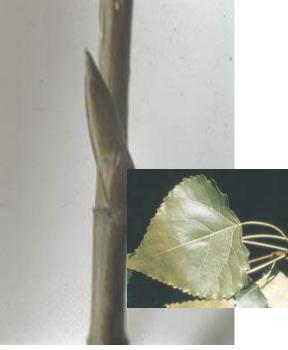


Eastern Cottonwood

Populus deltoides

Big Cottonwood, Necklace Poplar, Liard







Trembling Aspen

Populus tremuloides

 Quaking Aspen, Aspen Poplar, Golden Aspen, Smalltooth Aspen







Largetooth Aspen

- Populus grandidentata
- Big-Toothed Aspen, Largetooth Poplar





Lombardy Poplar

- Populus nigra
- European Black Poplar, Column Poplar

Silver Poplar

Populus alba

 White Poplar, Silver-Leaved Poplar, European White, Silver Maple

White Elm

Ulmus americana

 American Elm, Grey Elm, Soft Elm, Water Elm, Swamp Elm





Rock Elm

• Ulmus thomasii

• Cork Elm, Winged Elm



Slippery Elm

Ulmus rubra

Red elm, Moose Elm, Soft Elm, Sweet Elm





Hackberry

Celtis occidentalis

 Common Hackberry, Northern Nackberry, Bastard Elm, Nettle-Berry, Sugarberry







Common Apple

- Malus sylvestris
- Wild Apple, Paradise Apple

Pin Cherry

Prunus pensylvanica

 Wild Red Cherry, Fire Cherry, Bird Cherry, Hay Cherry









Black Cherry

Prunus serotina

 Black Chokecherry, Rum Cherry, Cabinet Cherry, timber Cherry, Wine cherry





Choke Cherry

Prunus virginiana

 Eastern Chokecherry, Red Choke Cherry, Sloetree, Wild Cherry, Chuckley-Plum



Canada Plum

- Prunus nigra
- Red Plum, Black Plum, Wild Plum, Horse Plum

American Plum

- Prunus americana
- Wild Plum, Brown Plum, Red Plum, Yellow Plum



Fleshy Hawthorn

Crataegus succulentaSucculent Hawthorn



<u>Other Deciduous Trees, Alternate Leaf</u> <u>Arrangement, (Simple Leaves, Toothed Margin)</u>

chestnut oak	Quercus montana	tree	alien	USA
european beech	Fagus sylvatica	tree	alien	Europe
chinese chestnut	Castanea mollissima	tree	alien	Asia
common winterberry	Ilex verticillata	shrub- tree	native	ON, Canada
english holly	Ilex aquifolium	shrub- tree	alien (naturalized)	Europe
american holly	Ilex opaca	shrub- tree	alien	USA
mountain-holly	Nemopanthus mucronatus	shrub- tree	native	ON, Canada
glossy buckthorn	Rhamnus frangula	shrub- tree	alien (naturalized)	Europe
little-leaf linden	Tilia cordata	tree	alien	Europe
white linden	Tilia tomentosa	tree	alien	Eurasia
mountain paper birch	Betula cordifolia	tree	native	ON, Canada
european white birch	Betula pendula	tree	alien (naturalized)	Eurasia

<u>Other Deciduous Trees, Alternate Leaf</u> <u>Arrangement, (Simple Leaves, Toothed Margin)</u>

cherry birch	Betula lenta	tree	native	ON, Canada
green alder	Alnus viridis	shrub	native	ON, Canada
european black alder	Alnus glutinosa	tree	alien (naturalized)	Europe
beaked hazel	Corylus cornuta	shrub	native	ON, Canada
american hazel	Corylus americana	shrub	native	ON, Canada
turkish hazel	Corylus colurna	tree	alien	Eurasia
european filbert	Corylus avellana	shrub- tree	alien	Eurasia
peachleaf willow	Salix amygdaloides	tree	native	ON, Canada
sandbar willow	Salix exigua	shrub- tree	native	ON, Canada
bebb willow	Salix bebbiana	shrub- tree	native	ON, Canada
littletree willow	Salix arbusculoides	shrub- tree	native	ON, Canada
balsam willow	Salix pyrifolia	shrub- tree	native	ON, Canada

<u>Other Deciduous Trees, Alternate Leaf</u> <u>Arrangement, (Simple Leaves, Toothed Margin)</u>

shining willow	Salix lucida	tree	native	ON, Canada
laurel willow	Salix pentandra	tree	alien	Eurasia
crack willow	Salix fragilis	tree	alien (naturalized)	Europe
golden willow	Salix alba	tree	alien	Asia
hybrid white willow	Salix alba x Salix fragilis	tree	alien	Eurasia
meadow willow	Salix petiolaris	shrub- tree	native	ON, Canada
heartleaf willow	Salix eriocephala	shrub- tree	native	ON, Canada
satiny willow	Salix pellita	shrub- tree	native	ON, Canada
basket willow	Salix viminalis	tree	alien (naturalized)	Eurasia
purple-osier willow	Salix purpurea	shrub- tree	alien	Eurasia
violet willow	Salix daphnoides	shrub- tree	alien	Europe
simon poplar	Populus simonii	tree	alien	Asia

Other Deciduous Trees, Alternate Leaf Arrangement, (Simple Leaves, Toothed Margin)

carolina poplar	Populus nigra x Populus canadensis	tree	alien	Europe
scotch elm	Ulmus glabra	tree	alien (naturalized)	Europe
siberian elm	Ulmus pumila	tree	alien (naturalized)	Asia
english elm	Ulmus procera	tree	alien (naturalized)	Europe
japonese zelkova	Zelkova serrata	tree	alien	Asia
dwarf hackberry	Celtis tenuifolia	shrub- tree	native	ON, Canada
downy serviceberry	Amelanchier arborea	shrub- tree	native	ON, Canada
smooth serviceberry	Amelanchier laevis	shrub- tree	native	ON, Canada
roundleaf serviceberry	Amelanchier sanguinea	shrub- tree	native	ON, Canada
mountain serviceberry	Amelanchier bartramiana	shrub	native	ON, Canada
wild crab apple	Malus coronaria	tree	native	ON, Canada
siberian crab apple	Malus baccata	tree	alien	Europe

Other Deciduous Trees, Alternate Leaf Arrangement, (Simple Leaves, Toothed Margin)

sweet cherry	Prunus avium	tree	alien (naturalized)	Asia
sour cherry	Prunus cerasus	tree	alien (naturalized)	Eurasia
japonese flowering cherry	Prunus serrulata	tree	alien	Asia
amur choke cherry	Prunus maackii	tree	alien	Asia
pear hawthorn	Crataegus calpodendron	shrub- tree	native	ON, Canada
fireberry hawthorn	Crataegus chrysocarpa	shrub- tree	native	ON, Canada
dotted hawthorn	Crataegus punctata	tree	native	ON, Canada
downt hawthorn	Crataegus mollis	tree	native	ON, Canada
cockspur hawthorn	Crataegus crus-galli	tree	native	ON, Canada
scarlet hawthorn	Crataegus coccinea	shrub- tree	native	ON, Canada
fanleaf hawthorn	Crataegus flabellata	shrub- tree	native	ON, Canada
one-seeded hawthorn	Crataegus monogyna	tree	alien (naturalized)	Europe
washington hawthorn	Crataegus phaenopyrum	tree	alien	USA

Alternate Leaf Arrangement

Simple Leaf Type – Smooth Leaf Margins



Caring for Your Land Series of Workshops

Pawpaw

Asimina triloba

 False Banana, Pawpaw Custard-Apple, Prairie Banana













Black Gum

- Nyssa sylvatica
- Black Tupelo, Sourgum, Pepperidge









Cucumber Tree

- Magnolia acuminata
- Cucumber Magnolia, Pointed-Leaved Magnolia













Other Deciduous Trees, Alternate Leaf Arrangement, (Simple Leaves, Smooth Margin)

alternate-leaf dogwood	Cornus alternifolia	shrub- tree	native	ON, Canada
rosebay rhododendron	Rhododendron maximum	tree	native	ON, Canada
redbud	Cercis canadensis	tree	native	ON, Canada
saucer magnolia	Magnolia X soulangiana	shrub- tree	alien	Eurasia
sea-buckthorn	Hippophae rhamnoides	shrub- tree	alien	Eurasia
russian-olive	Elaeagnus angustifolia	tree	alien (naturalized)	Eurasia
silverberry	Elaeagnus commutata	shrub- tree	native	ON, Canada
common smoke-tree	Cotinus coggygria	shrub- tree	alien	Eurasia
osage-orange	Maclura pomifera	tree	alien	USA

Presentation made possible by

- Ontario Ministry of Natural Resources
 - Ontario Stewardship
- Ontario Forestry Association
- Eastern Ontario Model Forest
- With contributions from:
 - City of Ottawa
 - Purdue University