

# 20 Common Trees

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Several thin, white, parallel diagonal lines are positioned in the bottom right corner of the slide, extending from the right edge towards the center.

*Acer x freemanii*

(Freeman maple)



Leaves:

- Opposite
- Leaves vary by cultivar due to hybrid nature of the tree
- Often look like silver maple but more robust

*Acer x freemanii*

(Freeman maple)



Bark:

- Smooth when young
- Develops splits with age



# *Acer saccharum* (Sugar maple)



## Leaves:

- Opposite
- 3-5 lobes, less sharply pointed than Norway Maple
- lower surface mostly glabrous.
- Great fall color



# *Acer saccharum* (Sugar maple)

Flowers:

- Some perfect, some male
- In dangling clusters



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# *Acer saccharum* (Sugar maple)

Fruit:

- Pairs of samaras
- Small, horse shoe shaped





*Betula nigra*

(River birch)



Leaves:

- Alternate
- Rhomboid shape
- Doubly serrate

*Betula nigra*

(River birch)



Flowers:

- Monoecious
- Male in pendulous catkin
- Female in upright spike

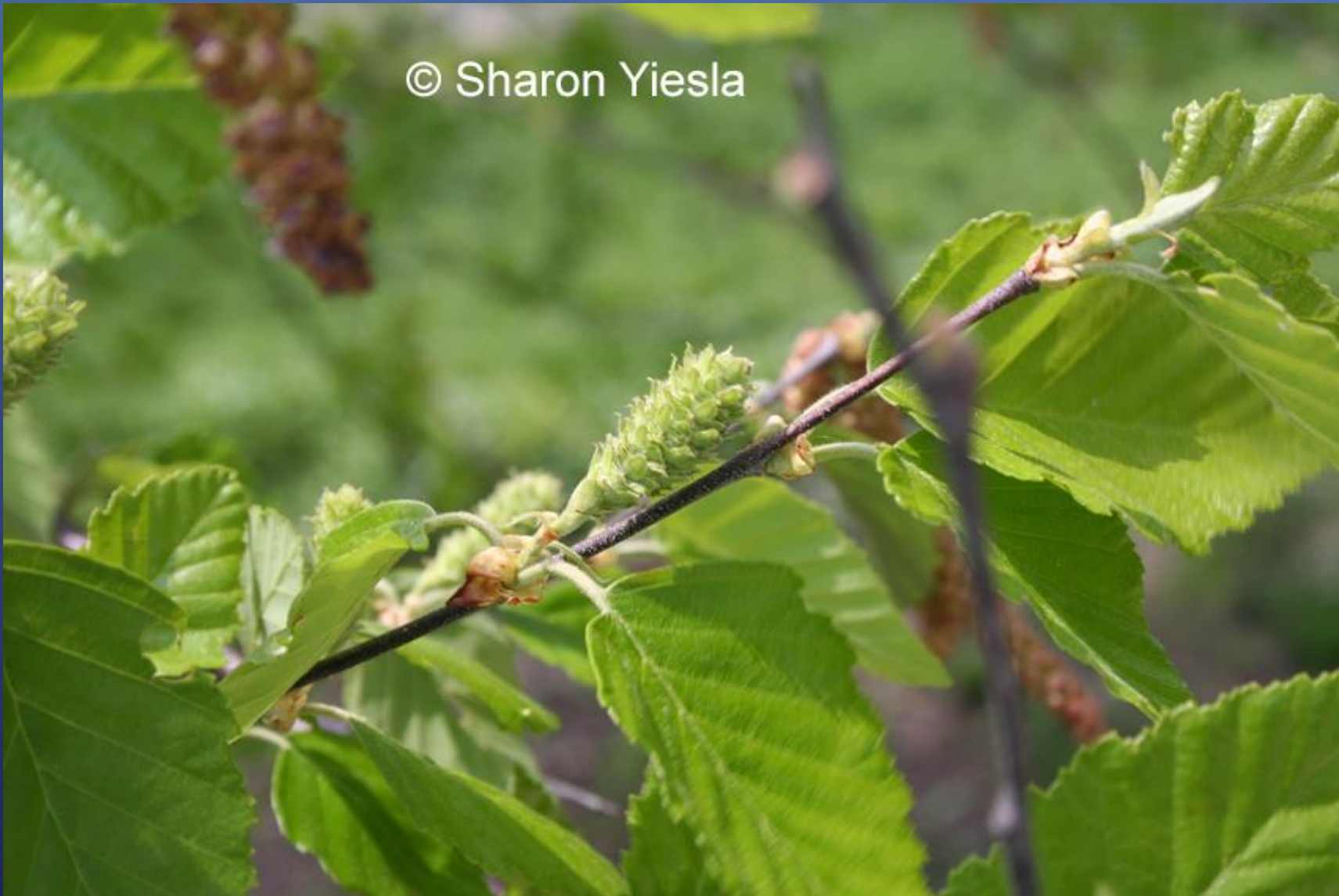


*River birch*

(River birch)

Fruit:

- Upright cluster of seeds





*Betula nigra*

(River birch)

Other:

- Attractive bark





# *Carpinus caroliniana* (Hornbeam)

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Leaves:

- Alternate
- Ovate
- Doubly toothed





# *Carpinus caroliniana*

(Hornbeam)

Female



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Male



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## Flowers:

- Monoecious
- Males in catkins
- Females in small spikes



# *Carpinus caroliniana* (Hornbeam)



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Fruit:

- Ribbed nutlets
- Subtended by bract
- Pendulous



# *Carpinus caroliniana* (Hornbeam)

Other:

- Fluted bark
- Good fall color





# *Catalpa speciosa* (Northern catalpa)



Leaves:

- Opposite or whorled
- Heart shaped
- Entire margin

# *Catalpa speciosa* (Northern catalpa)



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Flowers:

- Perfect
- Large cluster of white flowers marked with yellow and purple



# *Catalpa speciosa* (Northern catalpa)



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Fruit:

- Long capsules
- 8-20 inches
- Seeds with fringed ends (fringe is flat)



# *Cercidiphyllum japonicum* (Katsura)

Leaves:

- Opposite or sub-opposite
- Heart shaped
- Scalloped margin





# *Cercidiphyllum japonicum* (Katsura)

female



male



Flowers:

- Dioecious

# *Cercidiphyllum japonicum* (Katsura)



Fruit:

- Small follicles
- “Bananas for Barbie”





# *Cercidiphyllum japonicum* (Katsura)



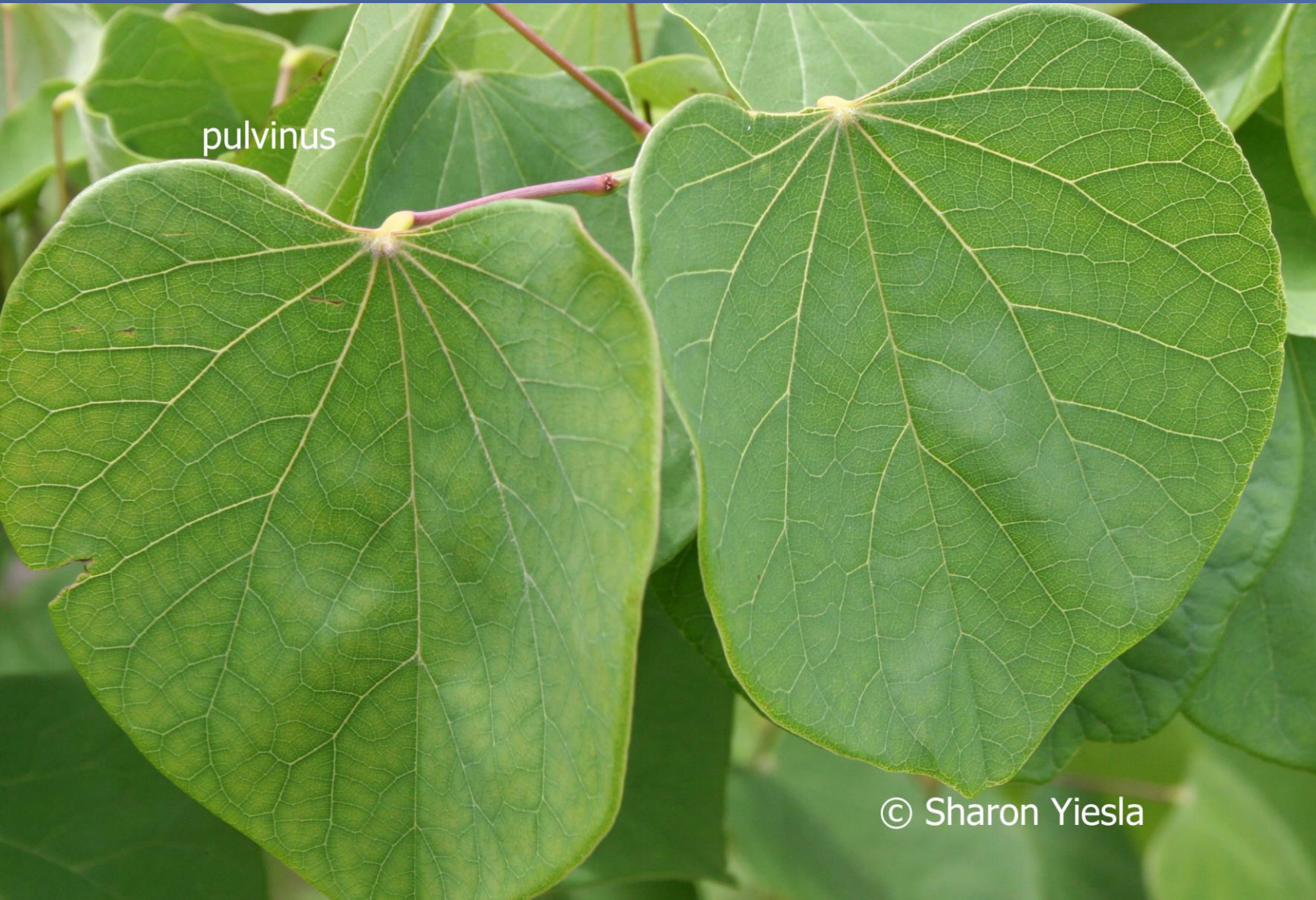
Other:

- Bark is shaggy on older trees
- Bud pink and often sub-opposite
- Great fall color
- Smells like cotton candy in fall



*Cercis canadensis*

(Redbud)



Leaves:

- Alternate
- Heart shaped
- Entire margin

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*Carcis canadensis*

(Redbud)

Flowers:

- Perfect
- Flower buds in clusters
- Magenta color



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*Cercis canadensis*

(Redbud)

Fruit:

- Flat, brown legumes
- 2-3 inches



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*Cercis canadensis*

(Redbud)



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Other:

- Older bark cracks open to show inner red bark
- Often multi-trunked



# *Fraxinus pennsylvanica* (Green ash)



## Leaves:

- Opposite
- Pinnately compound leaves
- 5 to 9 sessile leaves



*Fraxinus pennsylvanica*

(Green ash)



Other:

- Bark fairly tightly ridged and furrowed

*Ginkgo biloba*

(Ginkgo)

Leaves:

- Alternate, on spurs
- Fan shaped



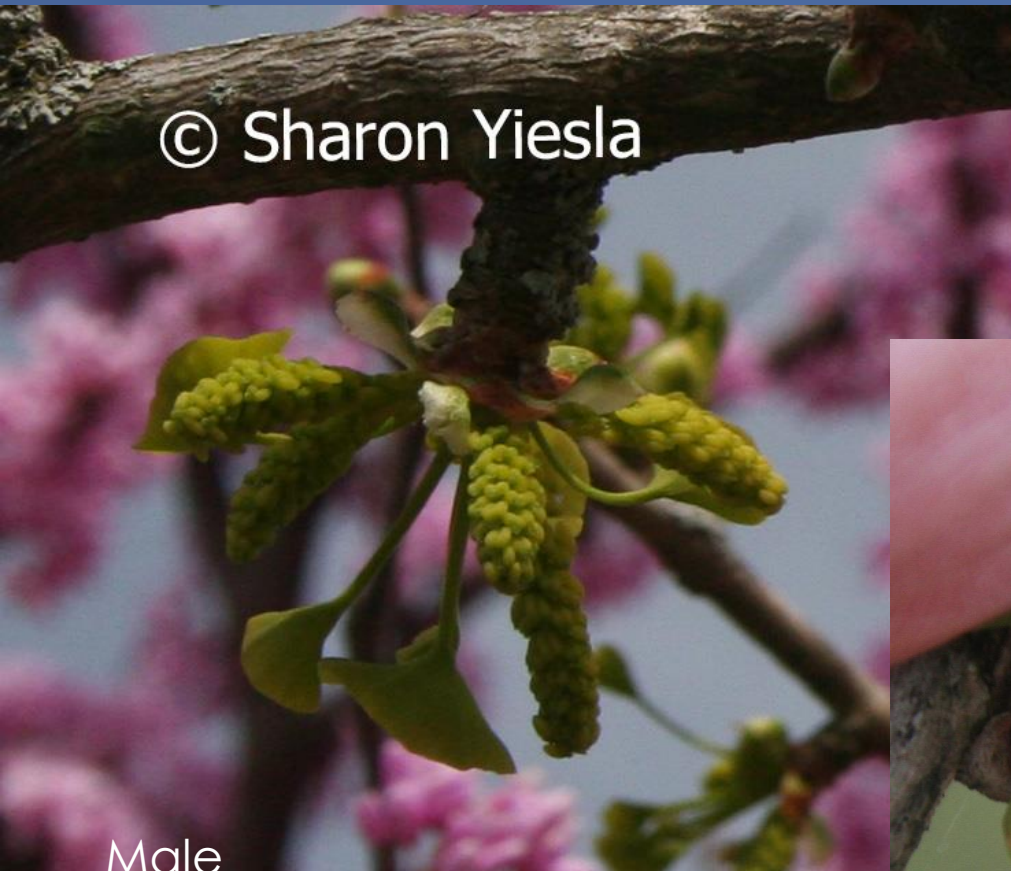


*Ginkgo biloba*

(Ginkgo)

Flowers:

- Dioecious
- Male catkins
- Female tiny in pairs





*Ginkgo biloba*

(Ginkgo)



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Fruit:

- Not a true fruit
- Naked seed with a fleshy coating
- Stinks when it lays on the ground



*Ginkgo biloba*

(Ginkgo)

Other:

- Spurs on stems
- Bark ridges flattened
- Great fall color





# *Gleditsia triacanthos* var. *inermis* (Thornless honeylocust)

Leaves:

- Pinnately to bipinnately compound
- Leaflets  $\frac{1}{3}$ - $1\frac{1}{2}$ "
- Rachis pubescent and grooved
- Base of petiole swollen; enclosing the bud.





# *Gleditsia triacanthos* var. *inermis* (Thornless honeylocust)



## Fruit:

- Thin legume
- 7-18 inches
- Red brown and curled at maturity





# *Gleditsia triacanthos* var. *inermis* (Thornless honeylocust)



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Other:

- Bark recurved along the edges
- Thorns on the species



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# *Gymnocladus dioica* (Kentucky Coffeetree)

Leaves:

- Bipinnately compound
- Up to 3 feet long
- Entire margins

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*Gymnocladus dioicus*

(Kentucky Coffeetree)

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Flowers:

- Dioecious
- Upright cluster of flowers



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# *Gymnocladus dioica* (Kentucky Coffeetree)



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Fruit:

- Thick legume
- 5-10 inches
- Red brown at maturity



# *Gymnocladus dioica* (Kentucky Coffeetree)



Other:

- Bark recurved along the edges
- Salmon pith
- Buds superposed; in a golden 'nest'





# *Liquidambar styraciflua* (Sweetgum)



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Leaves:

- Alternate
- Star shaped
- Glossy
- Finely toothed



# *Liquidambar styraciflua* (Sweetgum)

© Sharon Yiesla



Flowers:

- Monoecious
- Male cluster of heads
- Female pendulous head



# *Liquidambar styraciflua* (Sweetgum)

Fruit:

- Aggregate of capsules
- 1-1 ½ inches
- Persistent



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# *Liquidambar styraciflua* (Sweetgum)

Other:

- Large shiny buds
- Aromatic stems
- Great fall color



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# *Liriodendron tulipifera* (Tulip tree)



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Leaves:

- Alternate
- Unique shape
- Entire margin



# *Liriodendron tulipifera* (Tulip tree)



Flowers:

- Perfect
- Orange and green; tulip like





# *Liriodendron tulipifera* (Tulip tree)

Fruit:

- Aggregate of samaras
- 2-3 inches long
- Persistent



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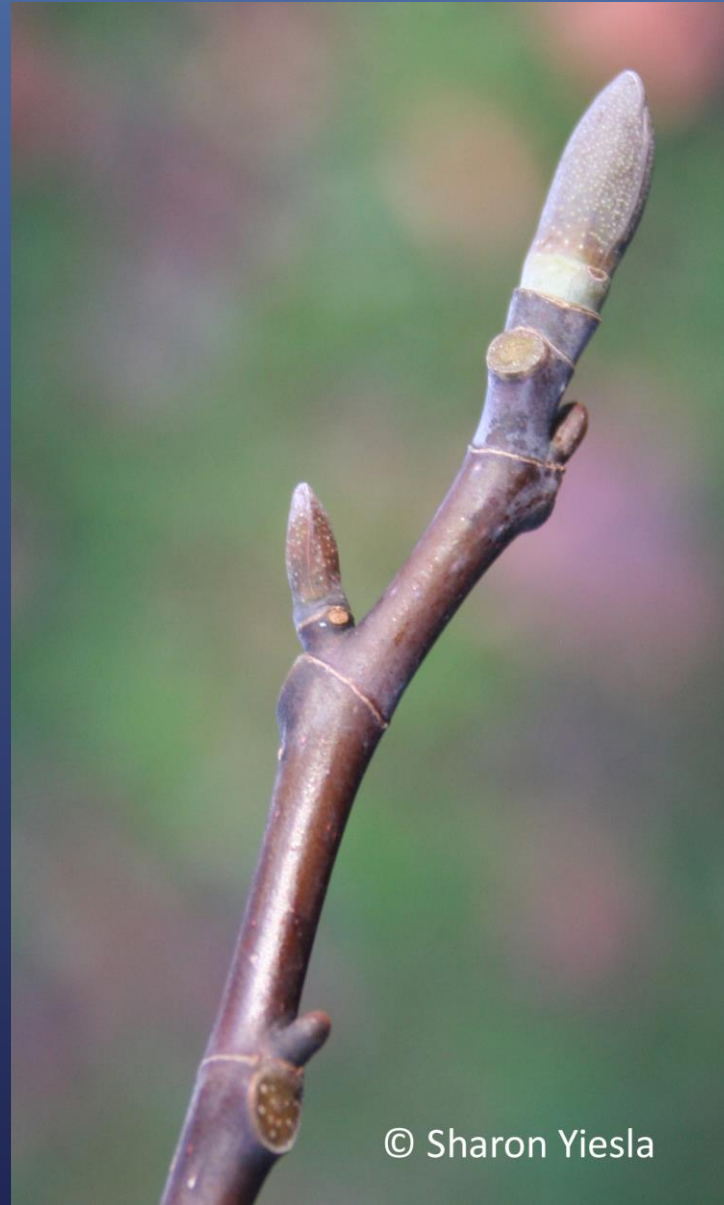
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# *Liriodendron tulipifera* (Tulip tree)

Other:

- Valvate buds
- Narrowly ridged bark
- Upright form



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*Picea abies*

(Norway spruce)



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Needles:

- Evergreen
- ½-1 inch long
- Held singly
- Pointed forward

Buds

- Not resinous
- Reflexed scales



*Picea abies*

(Norway spruce)

female

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Male pollen cones



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Flowering cones:

- Monoecious



*Picea abies*

(Norway spruce)



Cones:

- Cylindrical and pendulous
- 4-6 inches long
- Scales undulate



*Picea abies*

(Norway spruce)

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Other:

- Pendulous branches



# *Platanus x acerifolia* (London Planetree)



## Leaves:

- Alternate
- 3-5 triangular lobes
- sinuses extending  $\frac{1}{3}$  the length of the blade.
- Base of petiole surrounds bud



# *Platanus x acerifolia* (London Planetree)



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## Flowers:

- Monoecious
- Males flowers in round (green) heads
- Female flowers in round (red) heads



# *Platanus x acerifolia* (London Planetree)



Fruit:

- Round, aggregate (syncarp)
- Usually in 2's or 3's



*Platanus x acerifolia*

(London Planetree)

Other:

- Bark peels to reveal a mosaic of colors



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# *Quercus bicolor* (Swamp white oak)



Leaves:

- Alternate
- Shallow, rounded lobes
- Lower surface whitish
- Shape variable



*Quercus bicolor*

(Swamp white oak)

Flowers:

- Monoecious
- Males in pendulous catkins
- Females in tiny spikes in leaf axils





# *Quercus bicolor* (Swamp white oak)

Fruit:

- Acorn
- 1 inch long
- Cap covers 1/3 to 1/2 of acorn.
- Solitary or in pairs





# *Quercus bicolor* (Swamp white oak)

Other:

- Platy bark on trunk; slightly peeling on stems





*Quercus rubra*

(Red oak)

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Leaves:

- Alternate
- 7-11 pointed lobes
- Tufts of hair in vein axils on lower surface



*Quercus rubra*

(Red oak)

Fruit:

- Acorn
- $\frac{3}{4}$ -1 inch long
- Cap covers only a small portion of acorn.
- Solitary or in pairs





*Quercus rubra*

(Red oak)



Other:

- Bud is red-brown;  
little to no pubescence



# *Taxodium distichum* (Bald Cypress)



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Needles:

- Alternate
- Deciduous



# *Taxodium distichum* (Bald Cypress)

Flowering cones:

- Monoecious
- Females tiny
- Males in dangling catkins

female



male





# *Taxodium distichum* (Bald Cypress)



Cones:

- Rounded
- Valvate scales





# *Taxodium distichum* (Bald Cypress)

Other:

- Great fall color
- Shredded bark
- Knees



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*Thuja plicata*

(Arborvitae)

Needles:

- Scale-like
- In flattened branchlets



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*Thuja plicata*

(Arborvitae)



Flowering cones:

- Monoecious
- At tips of branchlets



*Thuja plicata*

(Arborvitae)



Cones:

- Small brown cones
- 1/3 to 1/2 inch



# *Tilia americana* (American linden)



Leaves:

- Alternate
- Heart-shaped
- Unequal leaf base
- Toothed margin



# *Tilia americana* (American linden)



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Flowers:

- Perfect
- Very fragrant
- Creamy yellow
- Subtended by a long strappy bract



# *Tilia americana* (American linden)



Fruit:

- Round nutlets