

# Tree Identification

Teaching edition

by Justin Cooper

# White Pine



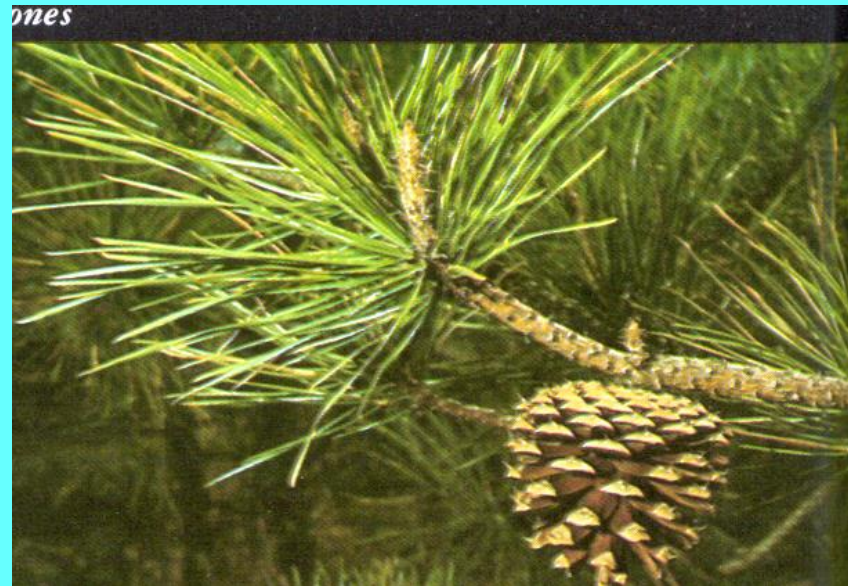
Needles in clusters  
of 5; long, limber  
cone



# Pitch Pine



Needles in three's;  
sharp prickles on tip  
of cone scale.



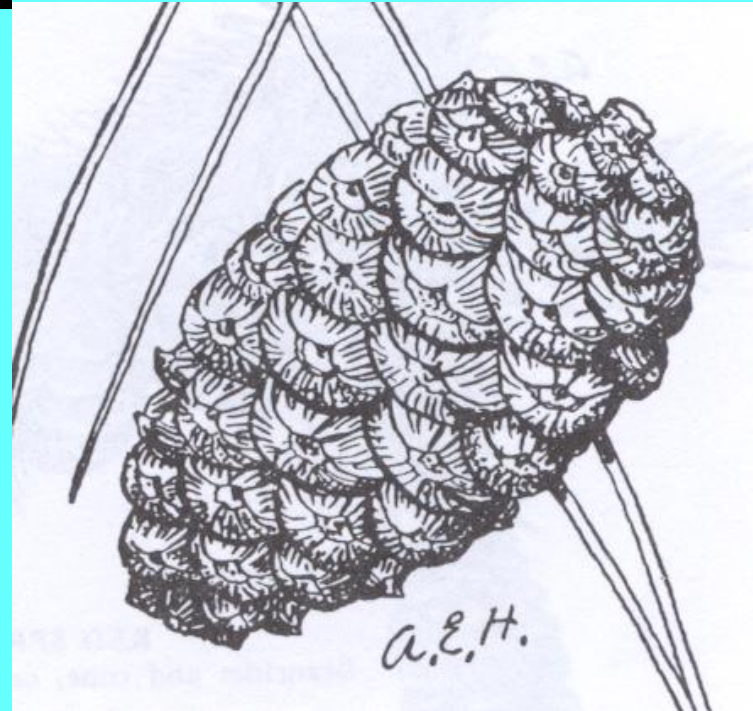


*Needle-leaf Conifers*



# Red Pine

Limber needles in two's  
nearly round cone without  
prickles.



Lack of rank odor from crushed needles: cone dark brown and falling early from the tree.



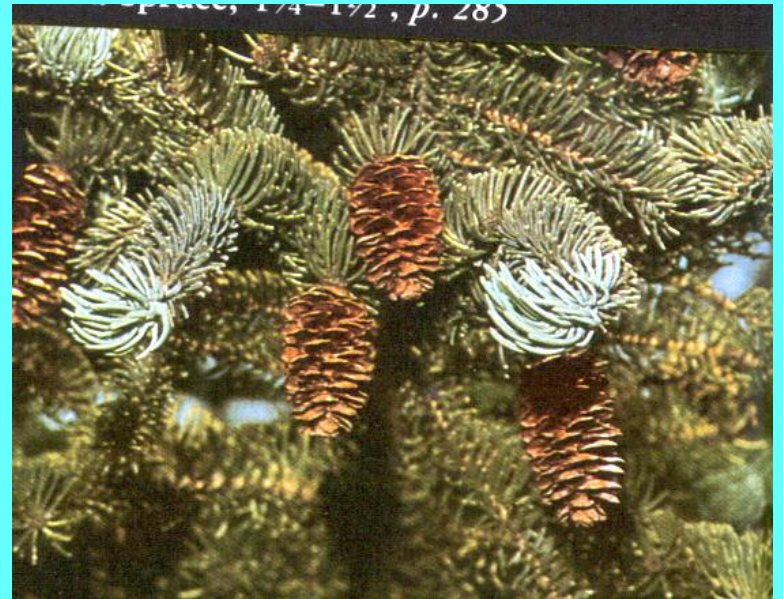
# Red Spruce





# White Spruce

Papery cone scales;  
rank odor from  
crushed needles.



# Balsam Fir



Needles without stalks; blisters in bark; cone erect and falling apart when ripe.







Needles with tiny stalks; small cones.

# Hemlock





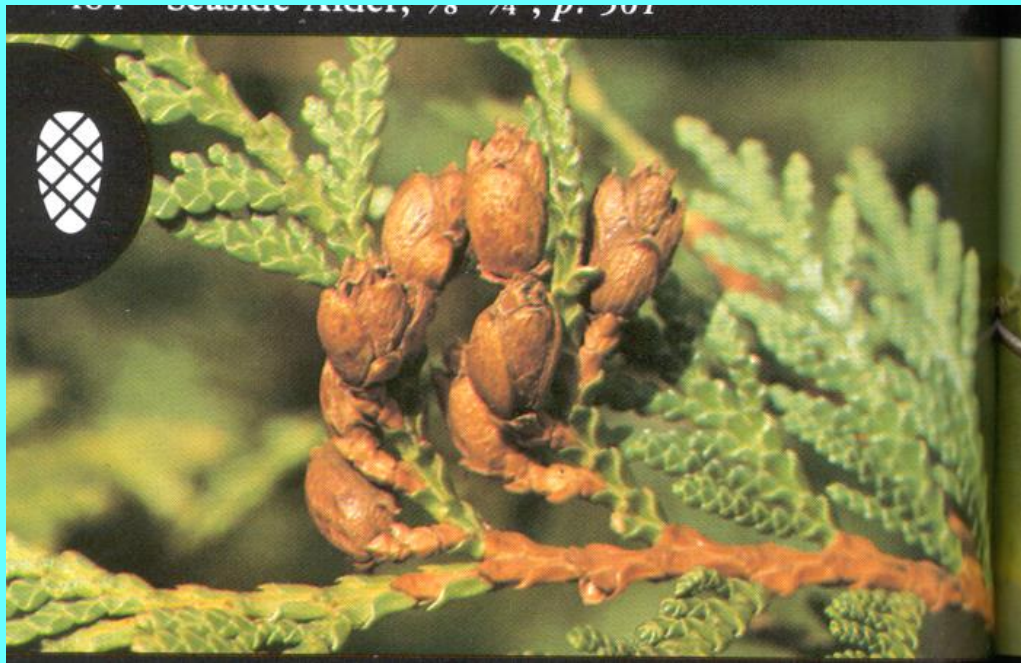


Many needles in clusters, dropping in autumn; small stiff cone on in curved stalk

## American Larch



# Arborvitae



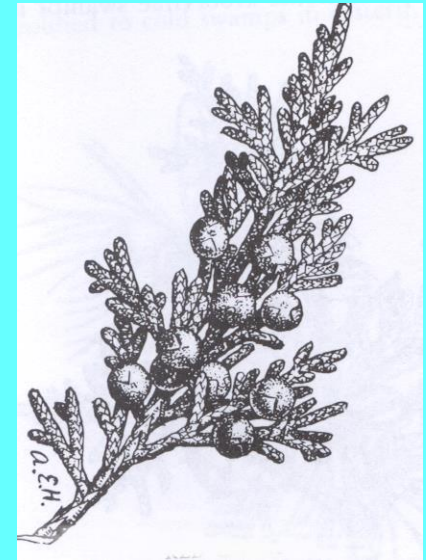
Cones with few scales;  
dot in center of flat,  
scale-like leaf



# Red Cedar



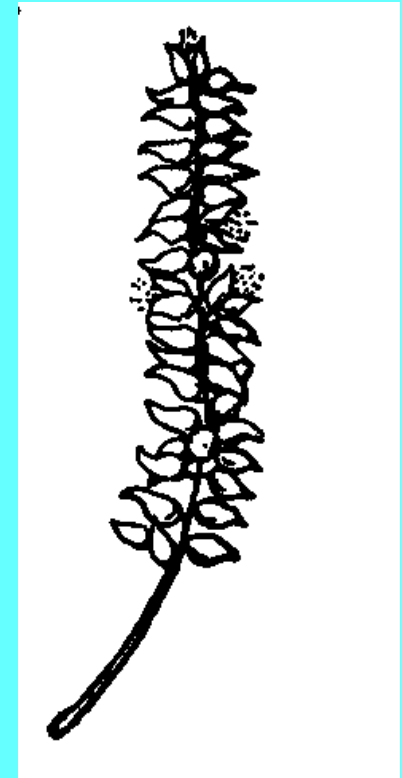
Berry-like fruit; two of leaves, shape and awl-like and flat and scale-like



# Black Willow



Narrow leaves; small buds with one bud scale.

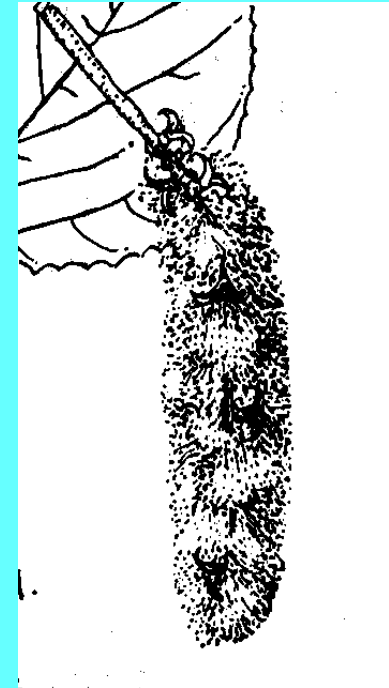




# Tremberling Aspen



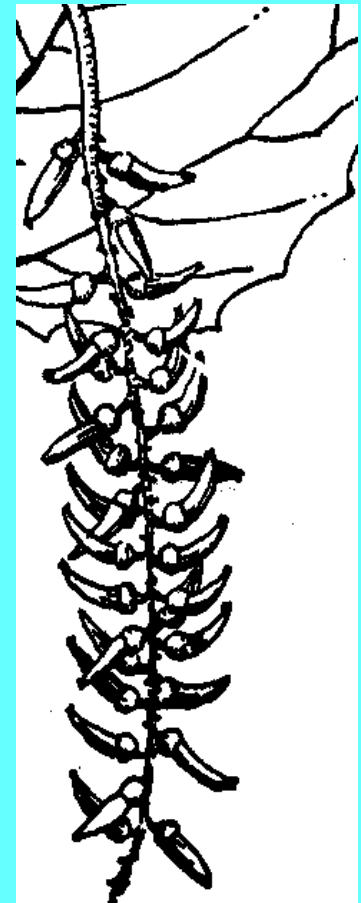
Tiny teeth on margin of leaves ; shiny twigs



# Large Tooth Aspen



Coarse teeth on the leaf with square base;  
twigs downy.



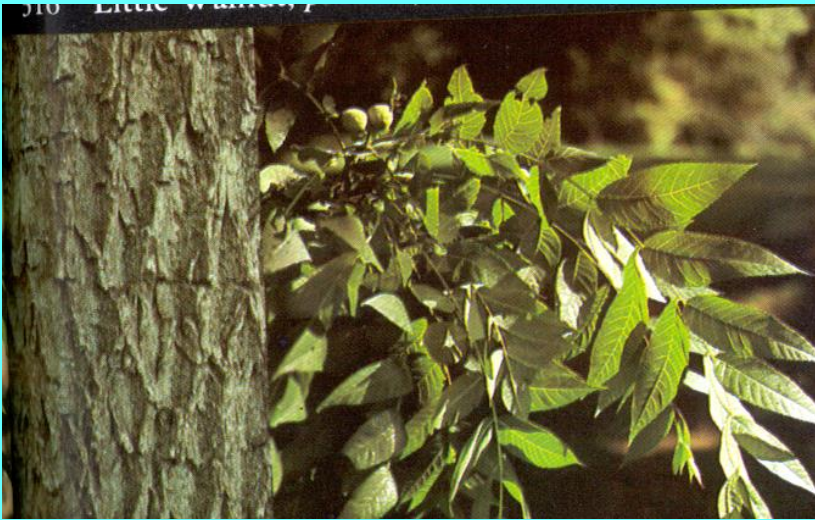




# Eastern Cottonwood

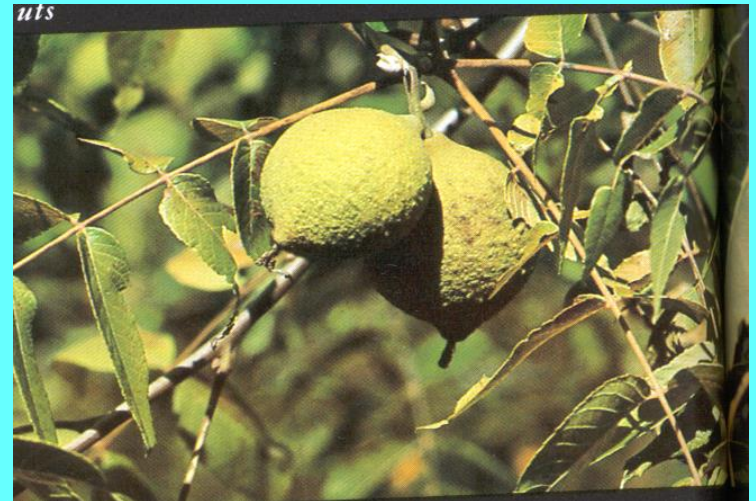
Rank odor when twig is broken; incurved teeth on leaf margin of triangular leaf.





Large round nut; cream-colored, chambered pith.

# Black Walnut



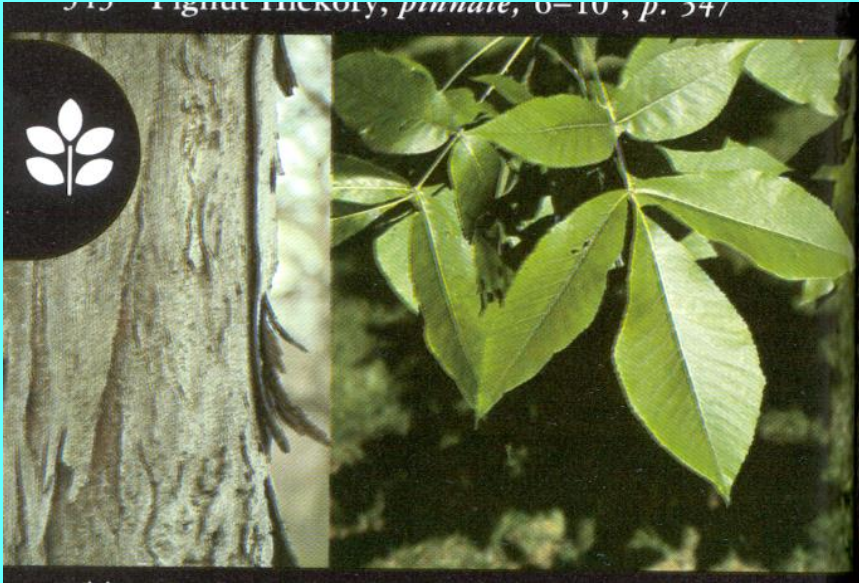




# Butternut

“Mustache”  
above “monkey-  
faced” leaf-  
scarf; dark  
brown,  
chambered pith





# Shagbark Hickory

Large terminal bud;  
from 5 to 7  
leaflets, outer 3 much  
larger; bark peeling in  
long plates.







From 3 to 5 leaflets, all nearly same size; lacey design in bark; small terminal bud like that of a rose

# Pignut hickory



# Bitternut Hickory

Smooth bark and usually straight stem; sulfur color bud; from 7 to 11 small leaflets.







Long-pointed, triangular leaf;dull, chalky-white bark,not peeling in thin layers.

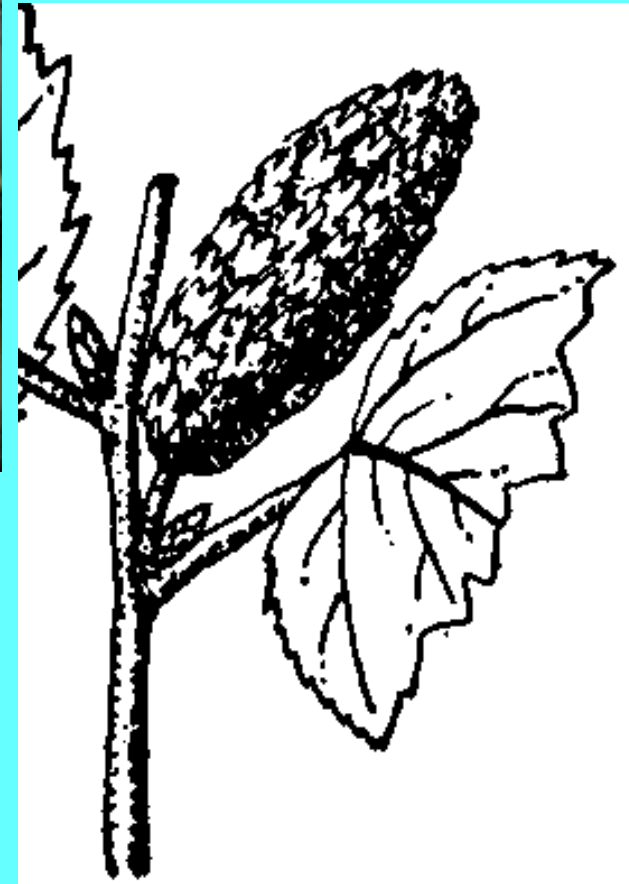
# Gray Birch



# Paper Birch



White bark peeling in papery layers in older trees, in saplings reddish-brown; ovate leaves.







Strong wintergreen  
flavor in twigs and bark;  
leaves usually in pairs on  
spurs.

# Black Birch



# Yellow Birch

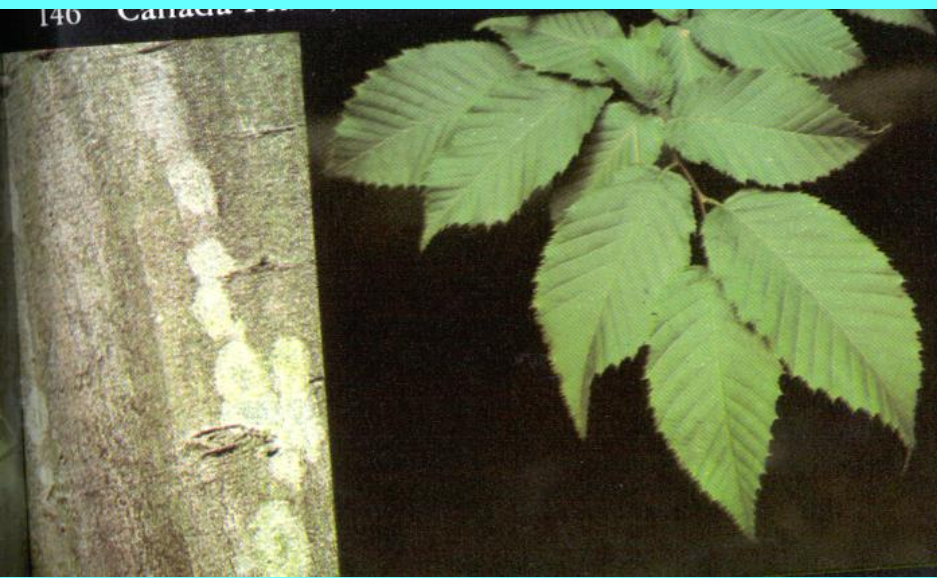


179 Paper Birch, 2-4", p. 368



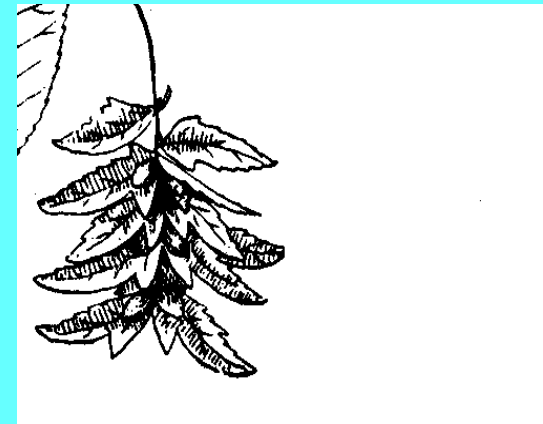
Silvery gray to yellowish bark, peeling in thin sheets; slight wintergreen flavor in bark and twigs; undersurface of leaves hairy along veins.





“Muscles” in bark; fruit a nutlet enclosed in 3 part “dress”

# Blue Beech



# Hop Hornbeam



Shreddy bark; shiny, reddish-brown twigs; papery fruit like a hop.



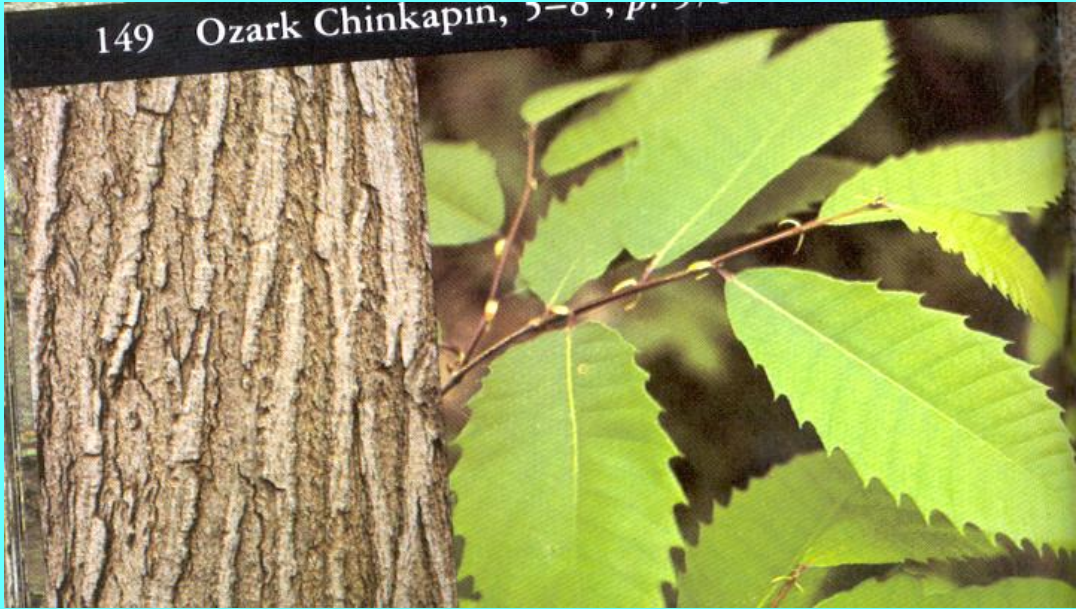


# Beech



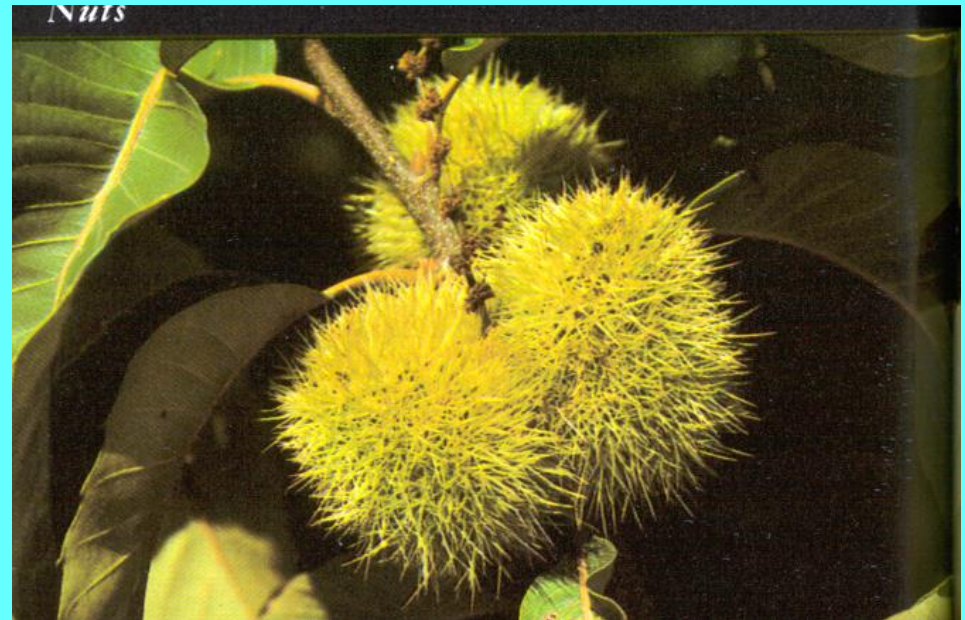
Smooth gray bark; coarse, sharp teeth on leaf margin; "cigar-shaped" buds





# Chestnut

Stout twigs, with star-shaped pith; long leaves with widely-shaped, sharp teeth.

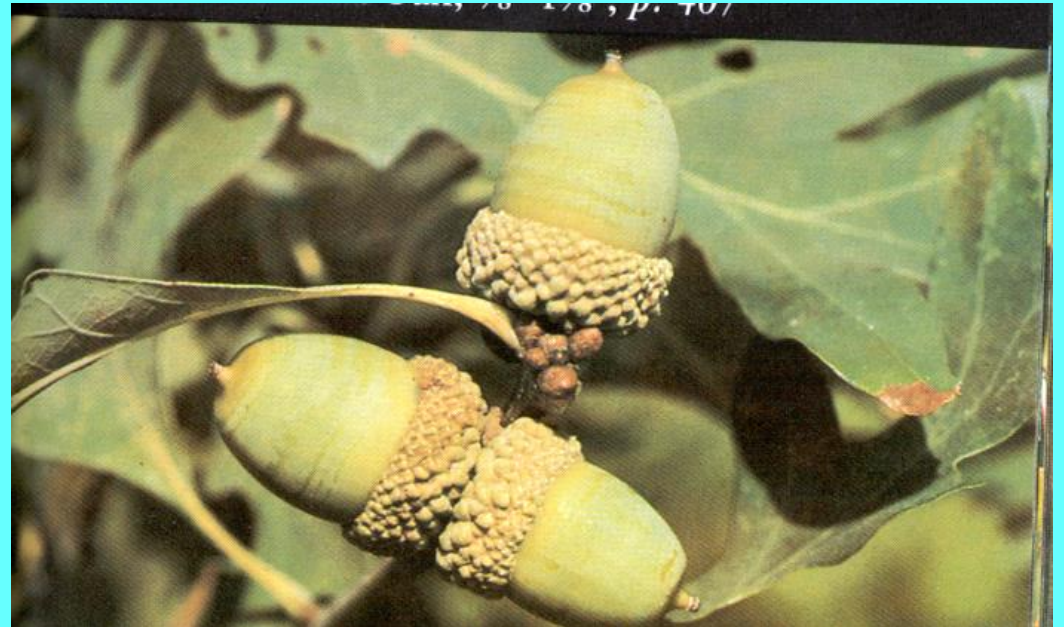






Ashy gray, flaky bark, deeply cleft lobes in leaves; a cone 1/4 enclosed in cup.

# White Oak







Orange streak between ridges of bark; round teeth or scallops on the leaf margin; long slim acorn.

# Chestnut Oak



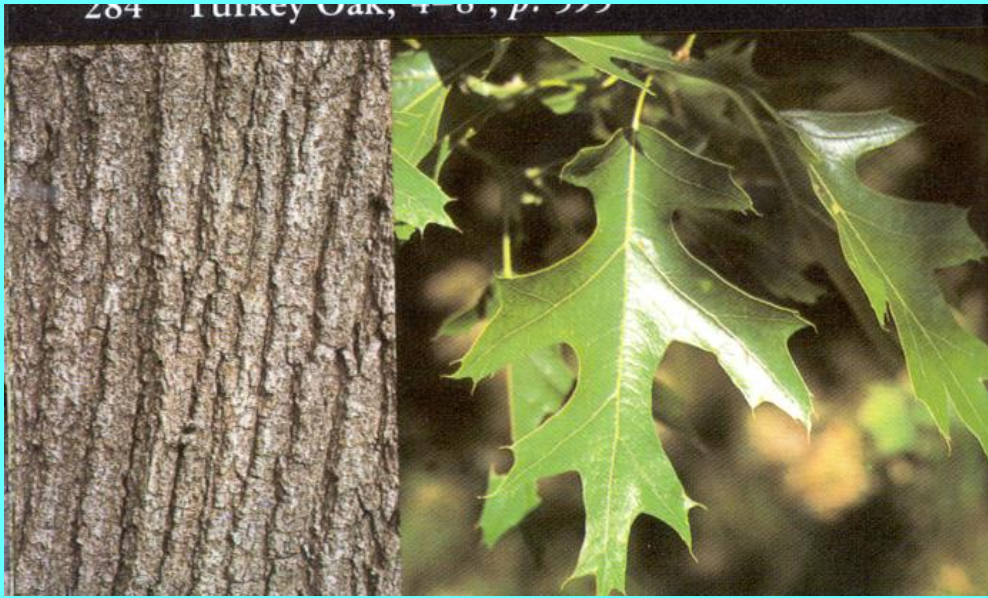




Reddish inner bark; leaf balanced (no heavier at outer than inner end): large fat acorn with flat cups. In thick woods. ; lower branches usually are self-pruned to more than half the height of tree.

# Red Oak



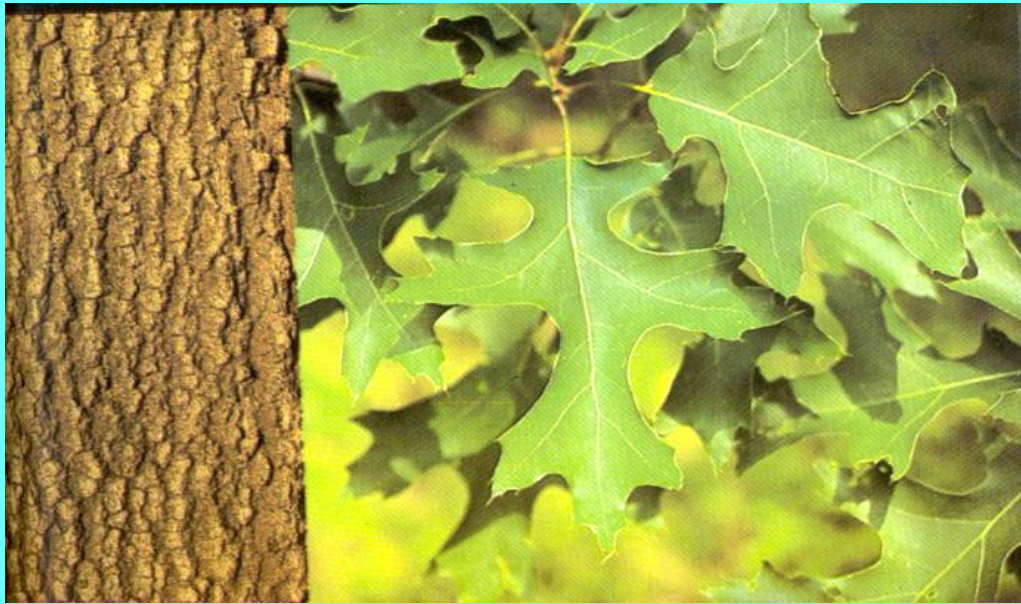


# Black Oak

Orange-yellow inner bark; leaf unbalanced, heavier on outer end, woolly along midrib beneath, acorn small, half-enclosed in cup. Lower branches usually remain below half the height of tree







# Scarlet Oak

Clefts between lobes of leaves extending nearly to midribs; lower branches persistence for many years, down curving.





# American Elm

Zigzag twigs; inner bark not mucilaginous, having alternate layers of brown and white; leaf slightly rough on upper side only; with oblique base.

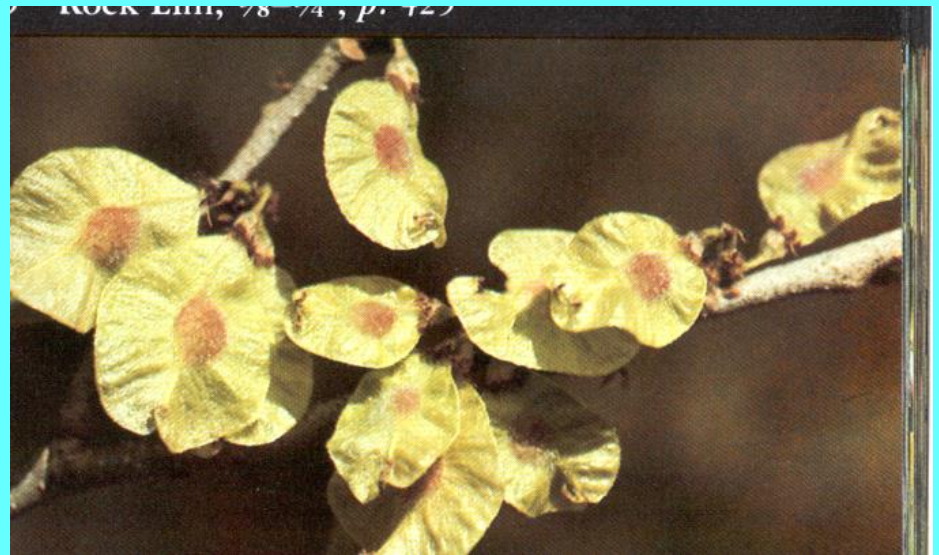




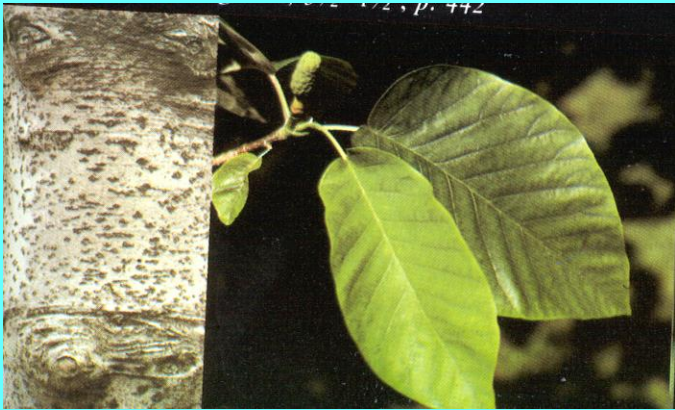


# Slipperry Elm

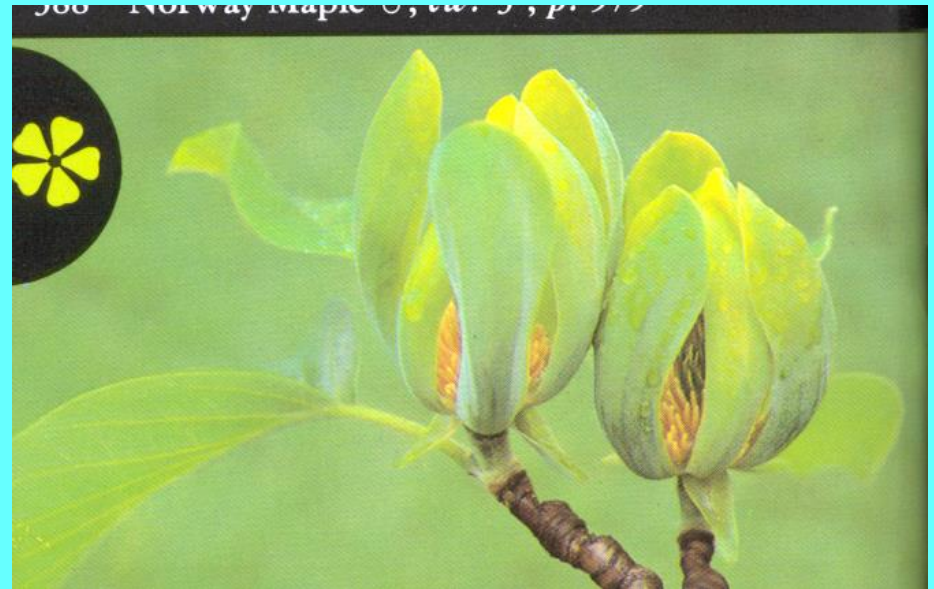
Inner bark chewy without alternate layers of brown and white, leaf base oblique, rough above and below, twigs chewy, buds tip with rusty hairs.



# Cucumber Tree



Smooth margin of larger leaf; aromatic odor of twigs; oblong terminal bud; branching like that of pear tree, fruit like cucumber.

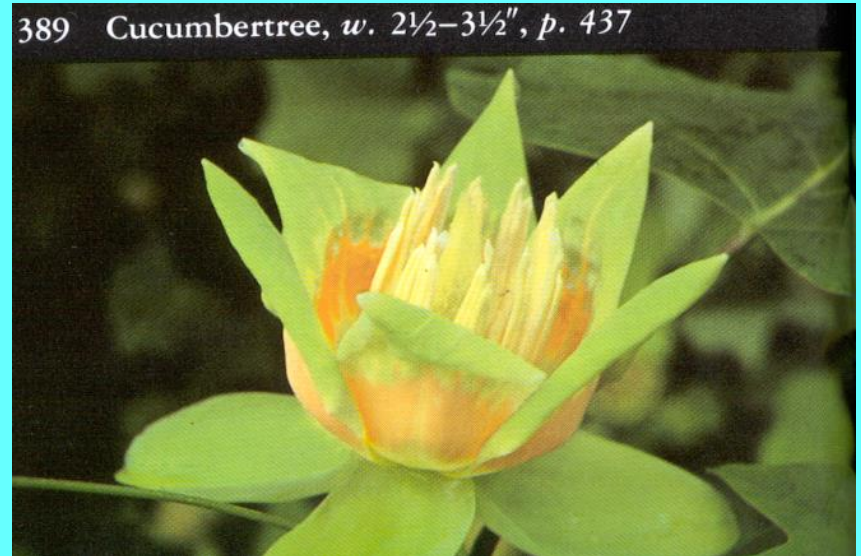


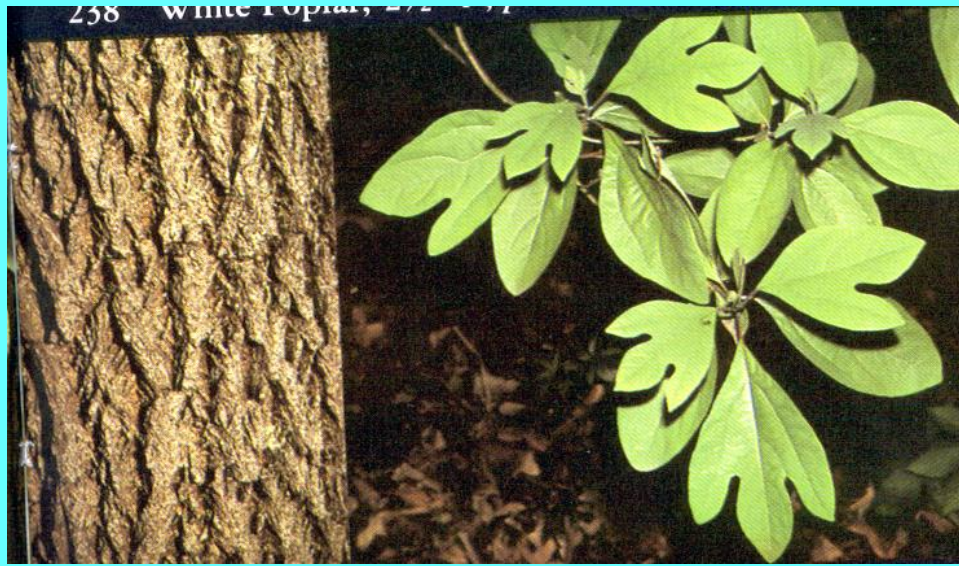




Usually leaf  
without “cut off” tip  
bitter taste, around  
odor of  
twigs; mitten-like  
terminal bud.

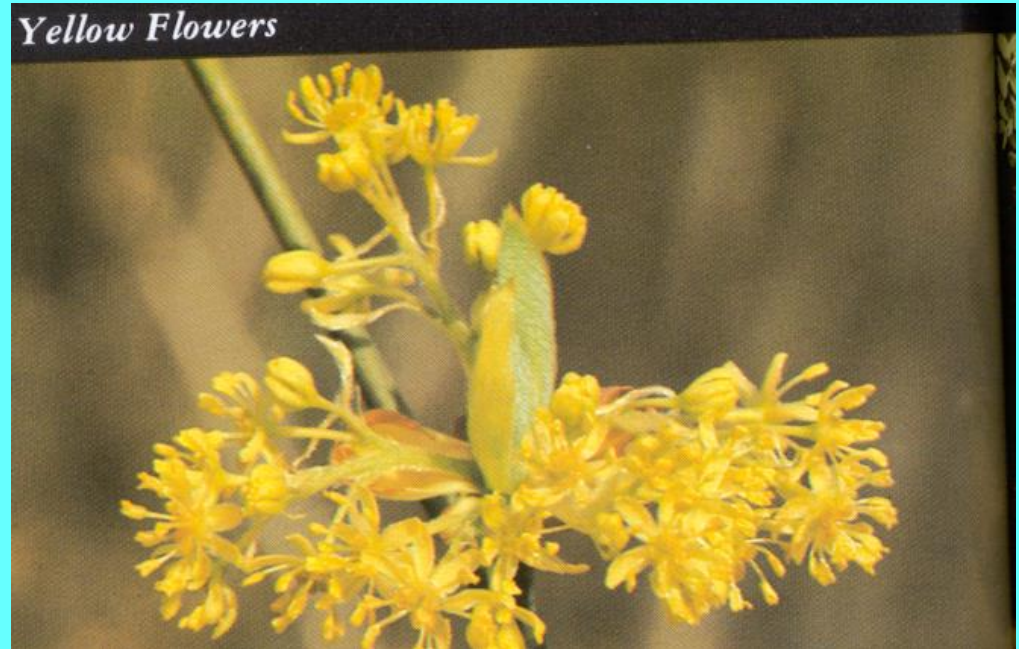
# Tulip Tree





# Sassafras

Leaves with three different shapes; inner bark cinnamon red; spicy smell of twigs.

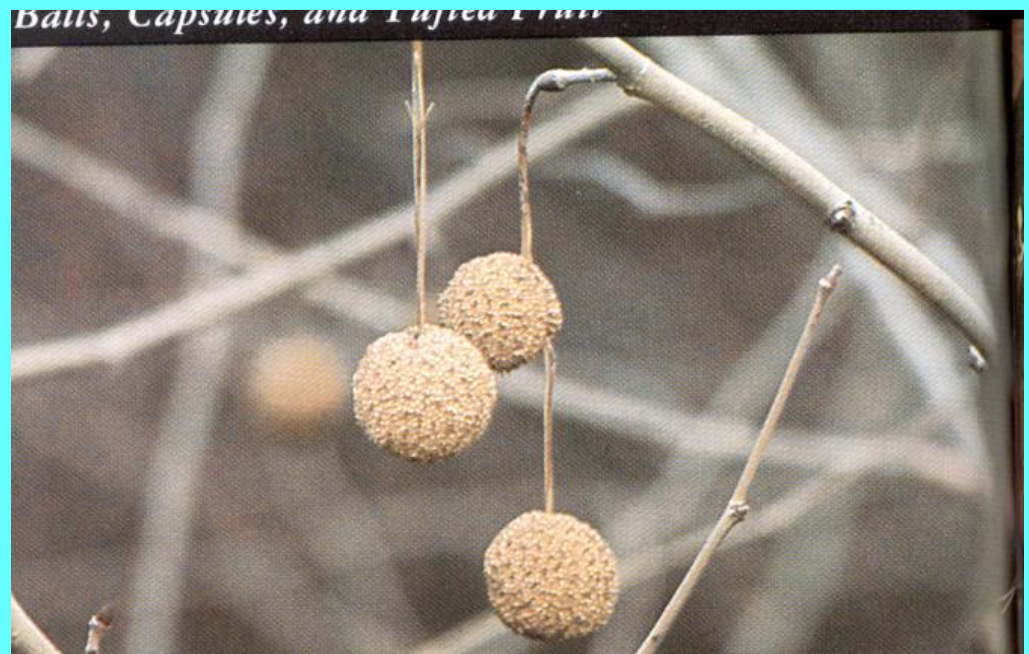






# Sycamore

Whitish to greenish under bark on upper trunk and limbs; bud with one scale forming cap; broad leaves, woolly below; fruit a brown, pebbly-grained ball.





# Shadbush

Grey bark marked with streaks; finely serrate leaves; cluster of red berries.





*Lobed Simple Leaves*



# Hawthorn

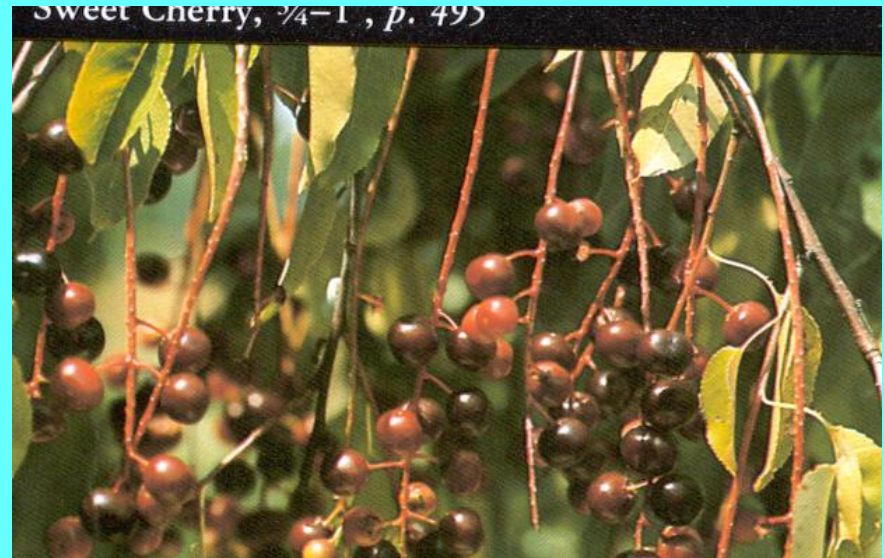
Stiff thorns, from 1 1/2 to 2 inches long; berry like fruit, usually red.





# Black Cherry

Long white pores on young bark; dark scaly, circular, saucer like plates in older bark; hairy midrib below on leaf; fruit and short stemmed clusters.







# Pit Cherry

Smooth, reddish brown bark, with long horizontal pores; branches at almost right angles to trunk; fruit in long stemmed clusters.



# Black Locust



Compound leaves with oval leaflets; small, downy buds depressed in bark; short stiff spines; papery pods.





# Honey Locust



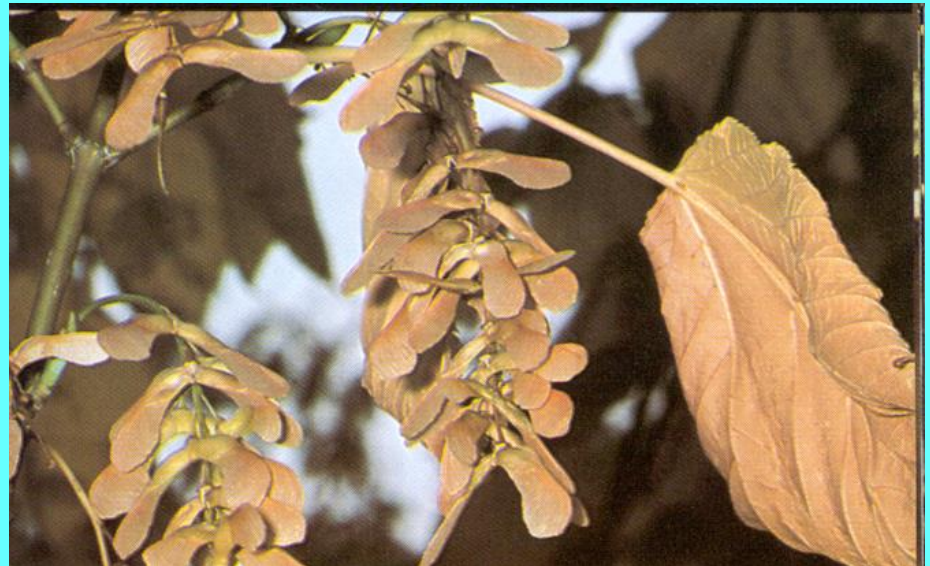
Branched, stout thorns;  
usually doubly compound  
leaves, with elliptic leaves;  
large, reddish brown pod.



# Sugar Maple



Rounded cleft between lobes of leaves; sharp pointed, brown buds, brown twigs.







# Red Maple

Red Buds and twigs;  
shaped angle between  
leaf lobes.





# Sliver Maple

Slivery bark on upper limbs; deeply cut clefts between coarse -toothed lobes; rank odor from cursed twig; large-winged.



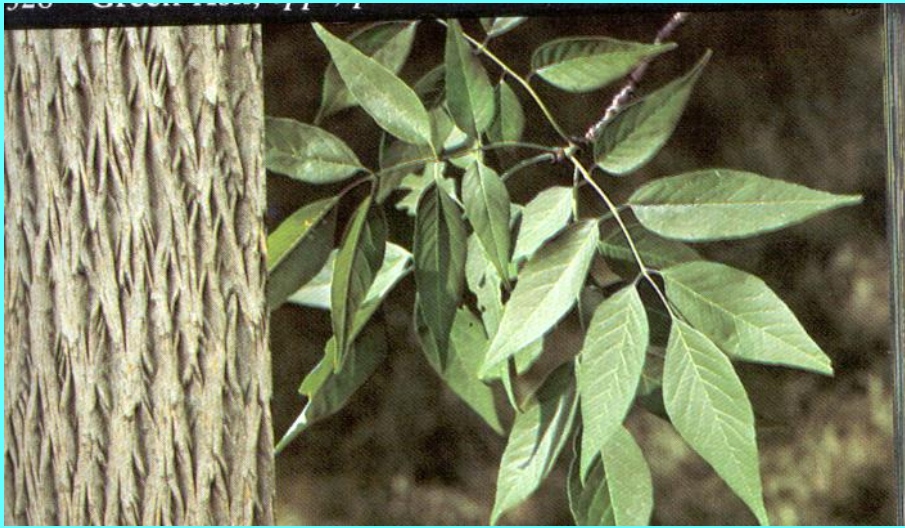




# Basswood

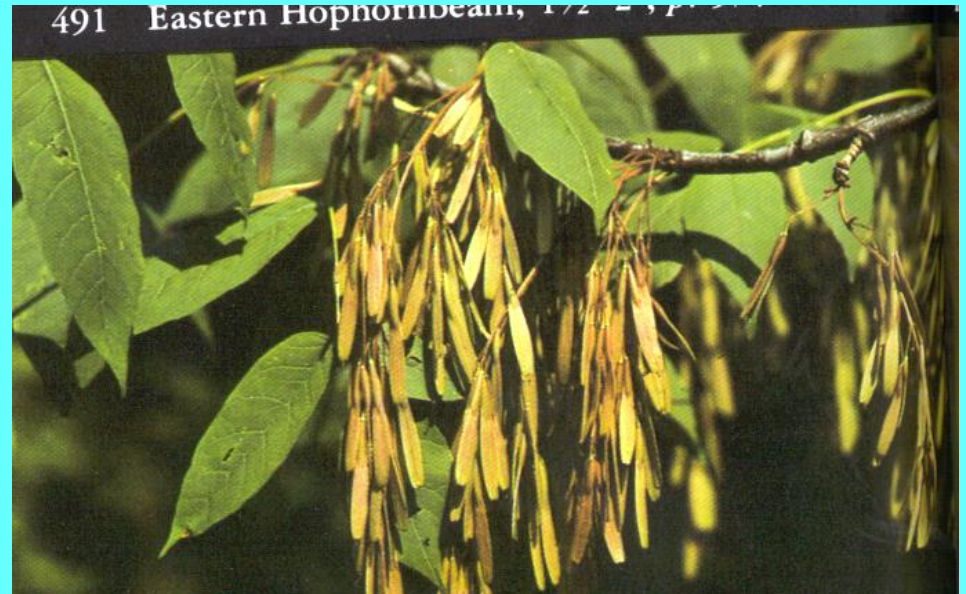
Often found in clumps;  
usually large, heart-shaped  
leaf; hump-backed bud on  
zig-zag twig; fruit a pea-  
like nut attached to a  
slender "parachute"





# White Ash

Thick twigs; compound leaves with stemmed leaflets; brown buds; ashy-gray, older bark.







# Black Ash



Found in moist locations, leaflets with out stems;black buds the woolly twigs marked by semi-circular leaf-scars.

This is white, but it about the same except it is rounded at the ends