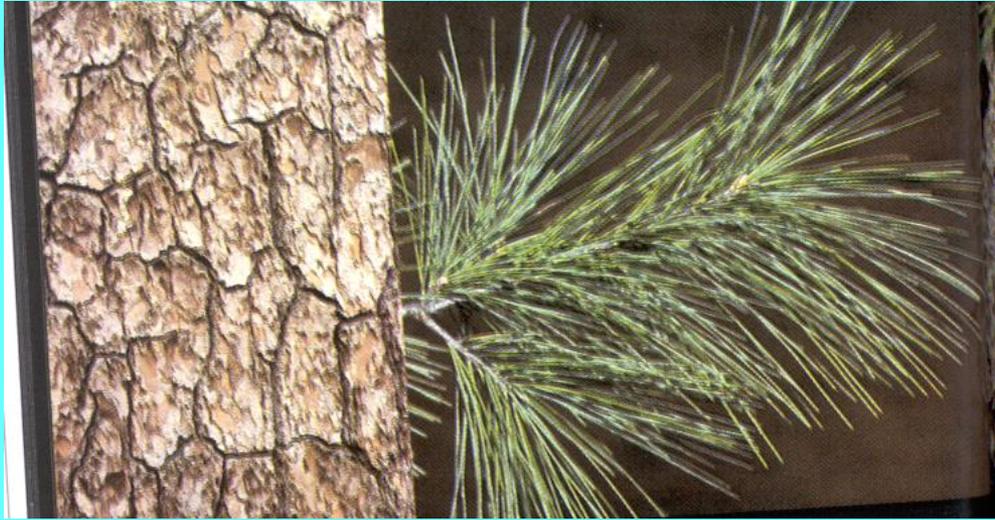


Tree Identification

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.

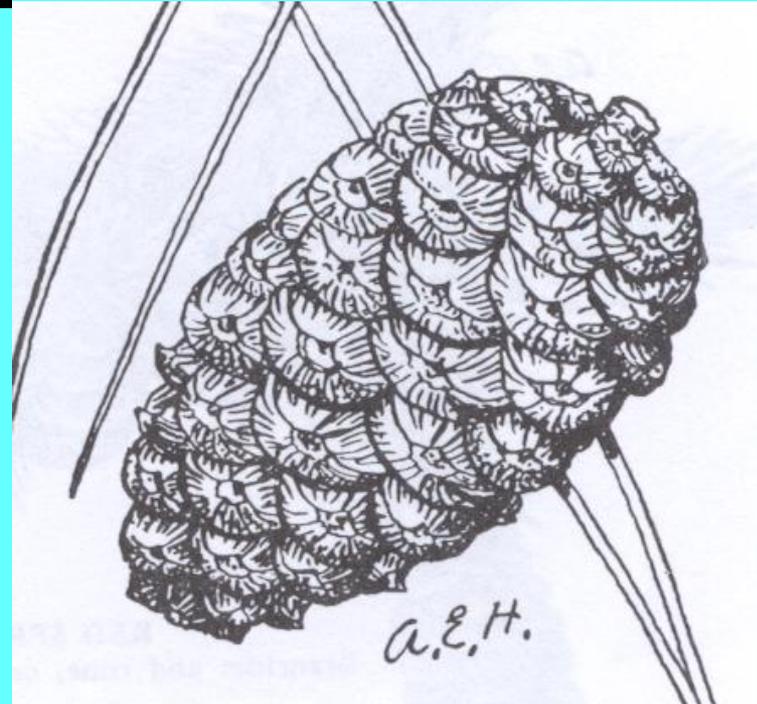


Needle-leaf Conifers



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.

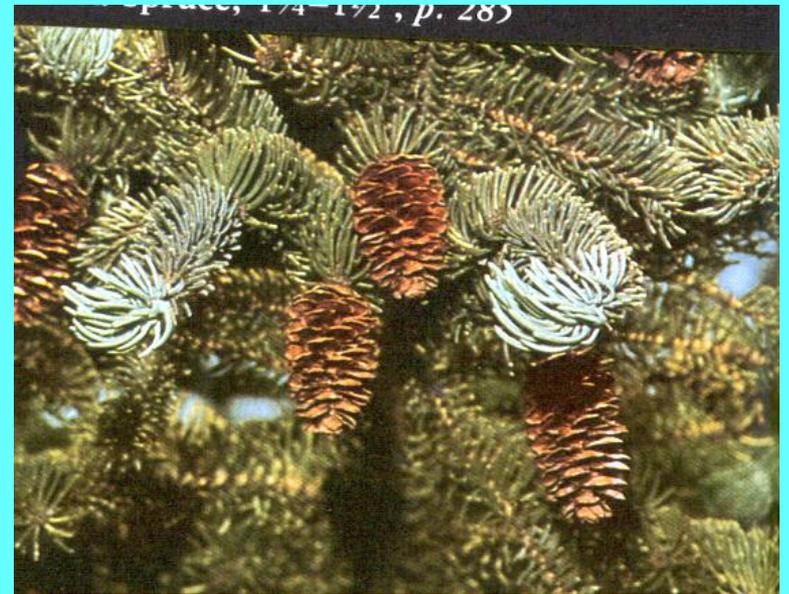


Red Spruce



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



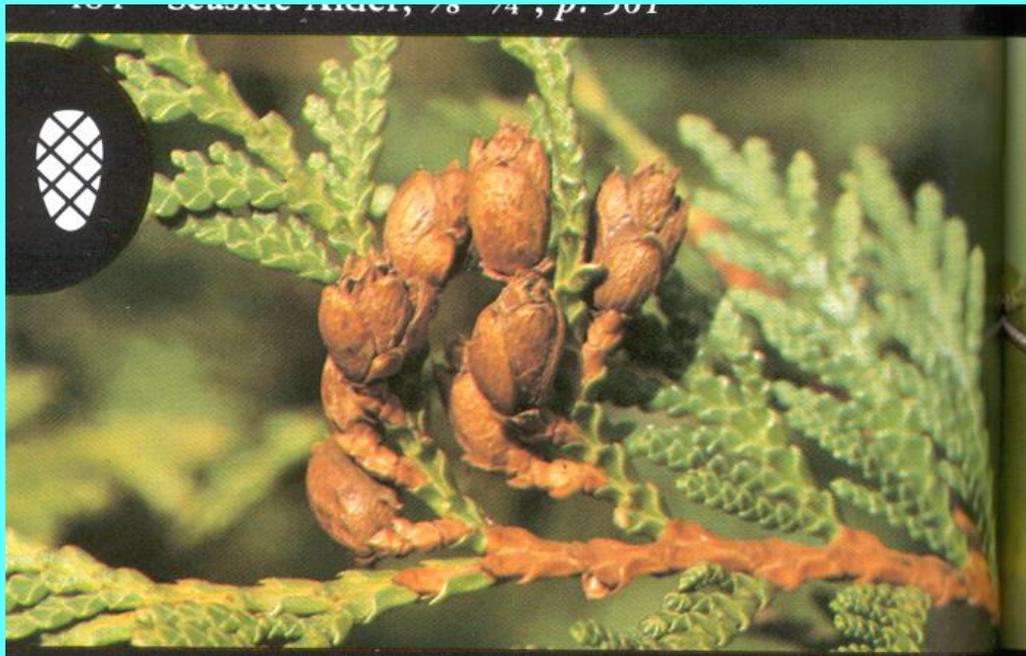


Many needles in clusters, dropping in autumn; small stiff cone on in curved stalk

American Larch



Arborvitae

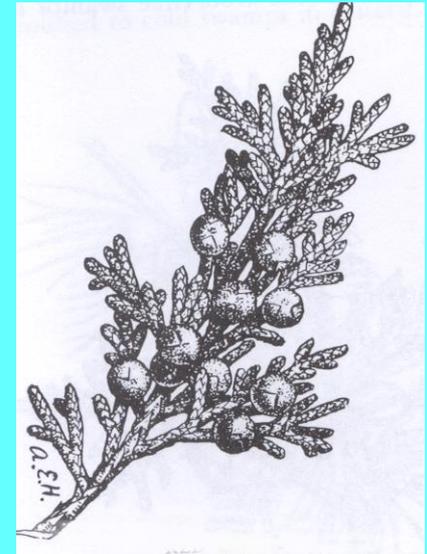


Cones with few scales;
dot in center of flat,
scale-like leaf

Red Cedar



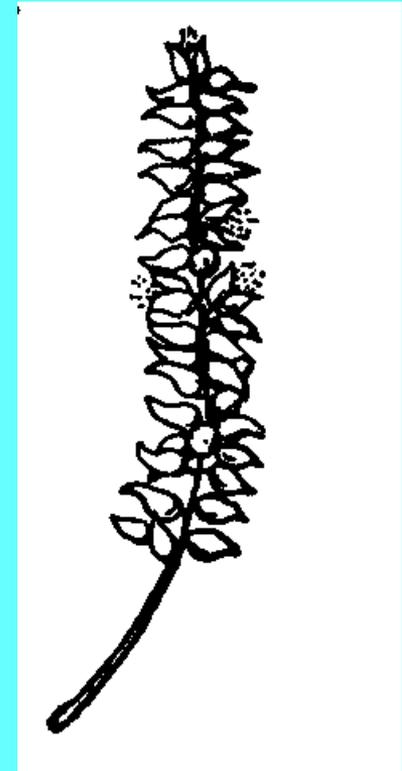
Berry-like fruit; two of leaves, shape and awl-like and flat and scale-like



Black Willow



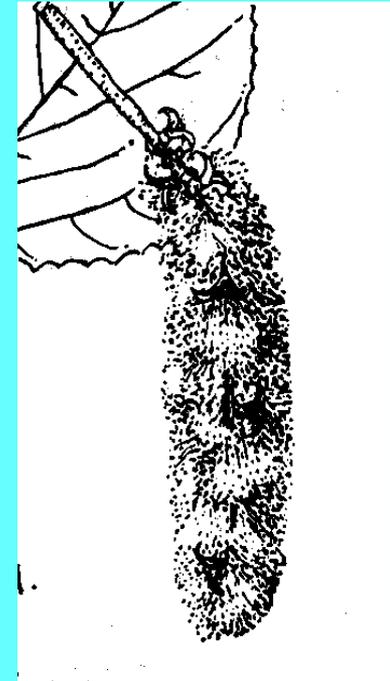
Narrow leaves; small buds with one bud scale.



Tremberling Aspen



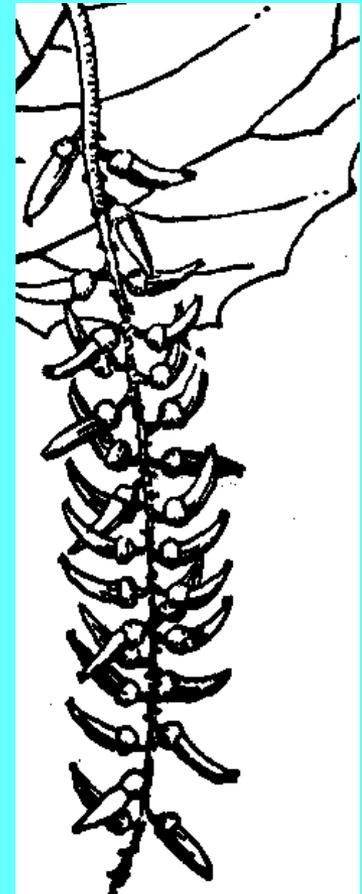
Tiny teeth on margin of leaves ; shiny twigs



Large Tooth Aspen



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

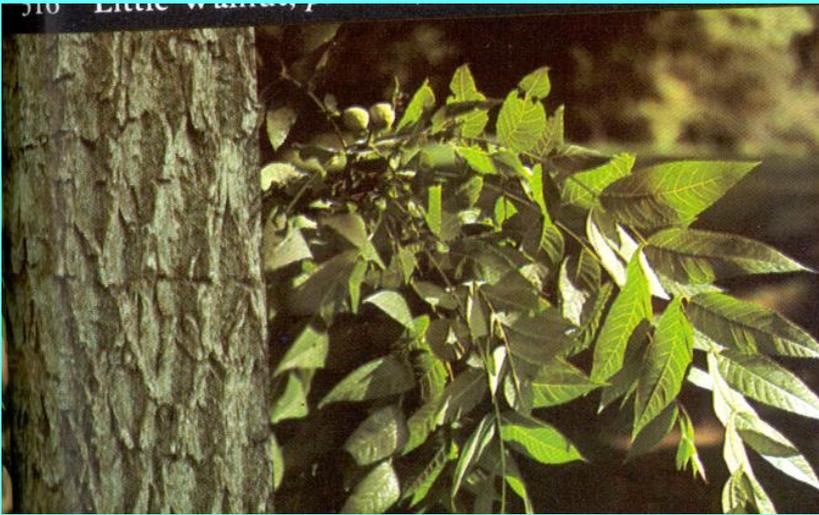




Eastern Cottonwood

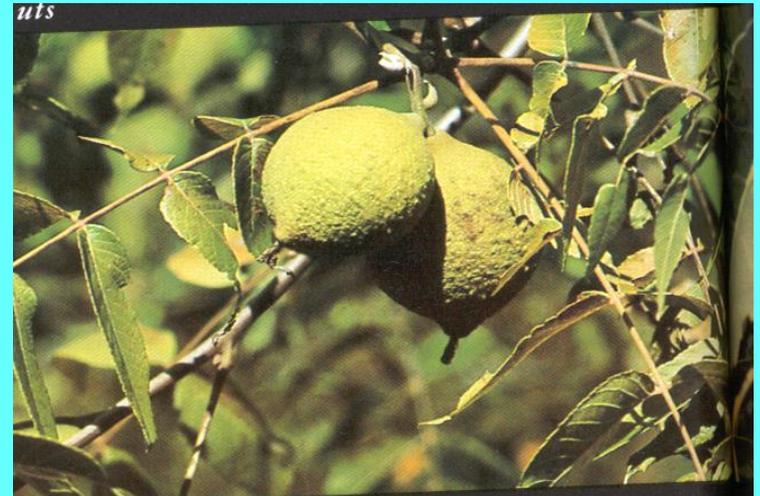
Rank odor when twig is broken; incurved teeth on leaf margin of triangular leaf.





Large round nut; cream-colored, chambered pith.

Black Walnut

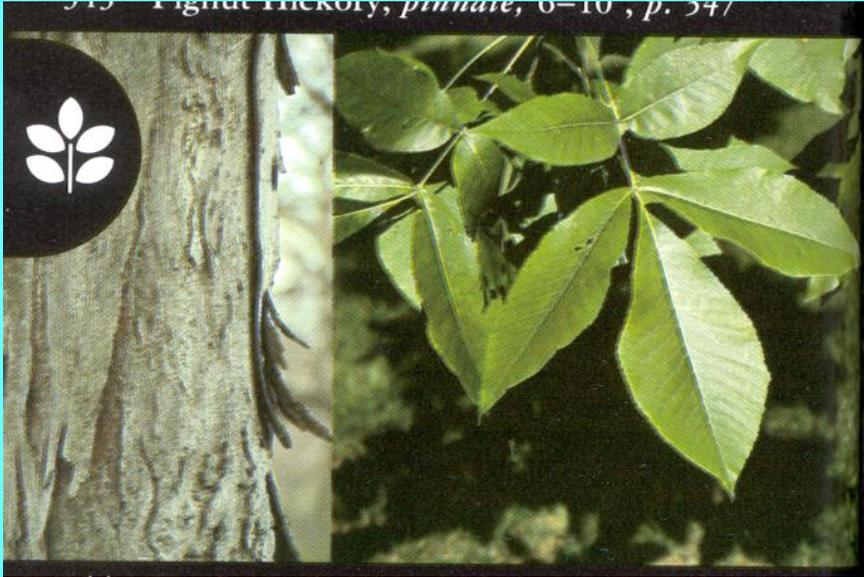




Butternut

“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

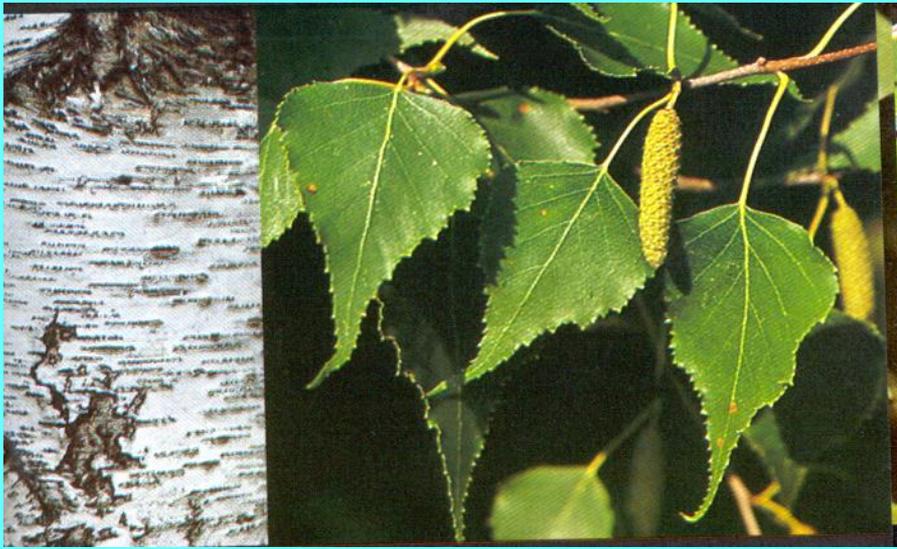
Pignut hickory



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.

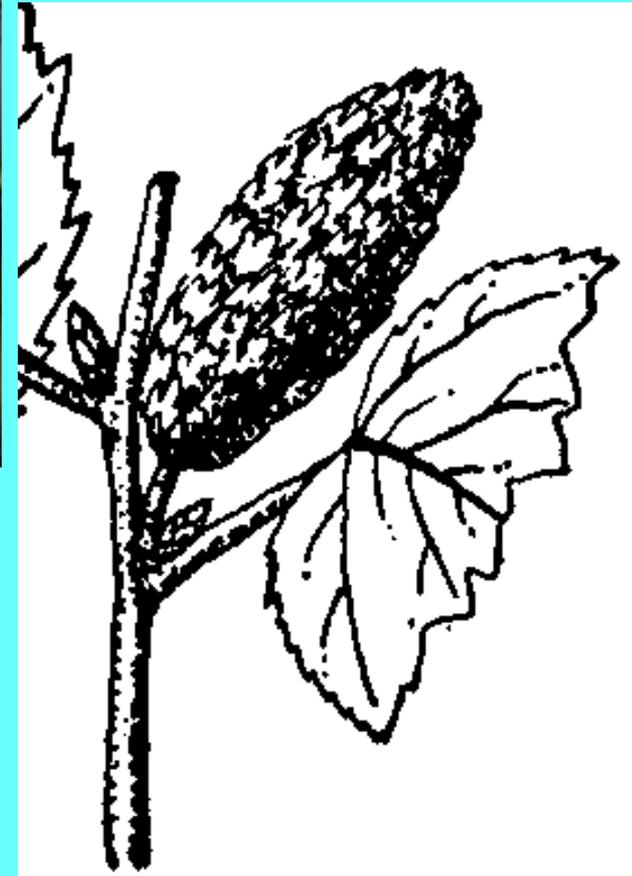
Gray Birch



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



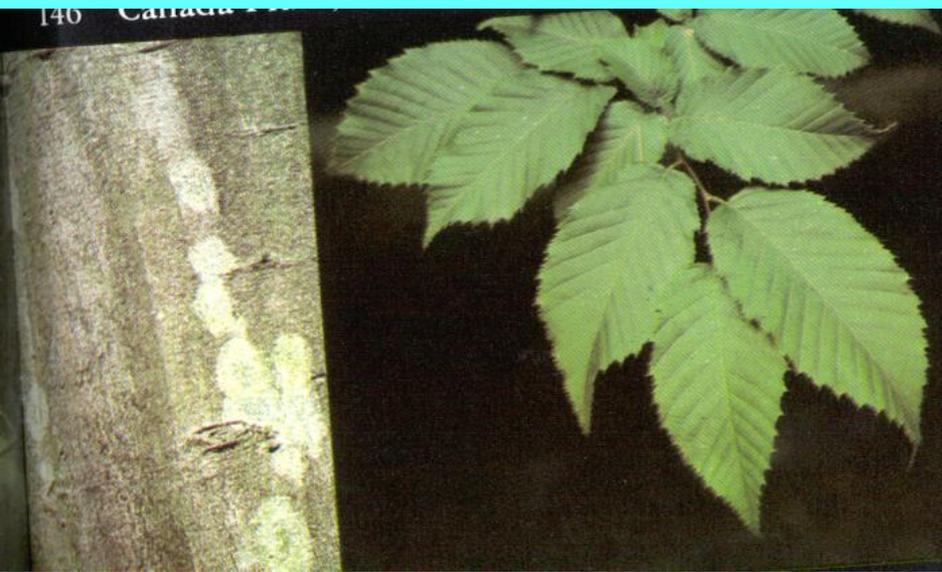
Yellow Birch



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

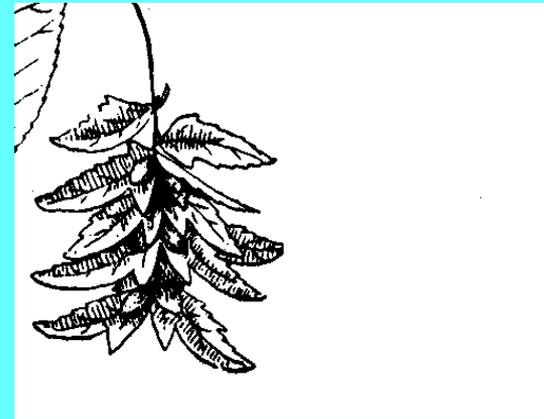


Silvery gray to yellowish bark, peeling in thin sheets; slight wintergreen flavor in bark and twigs; undersurface of leaves hairy along veins.



“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.

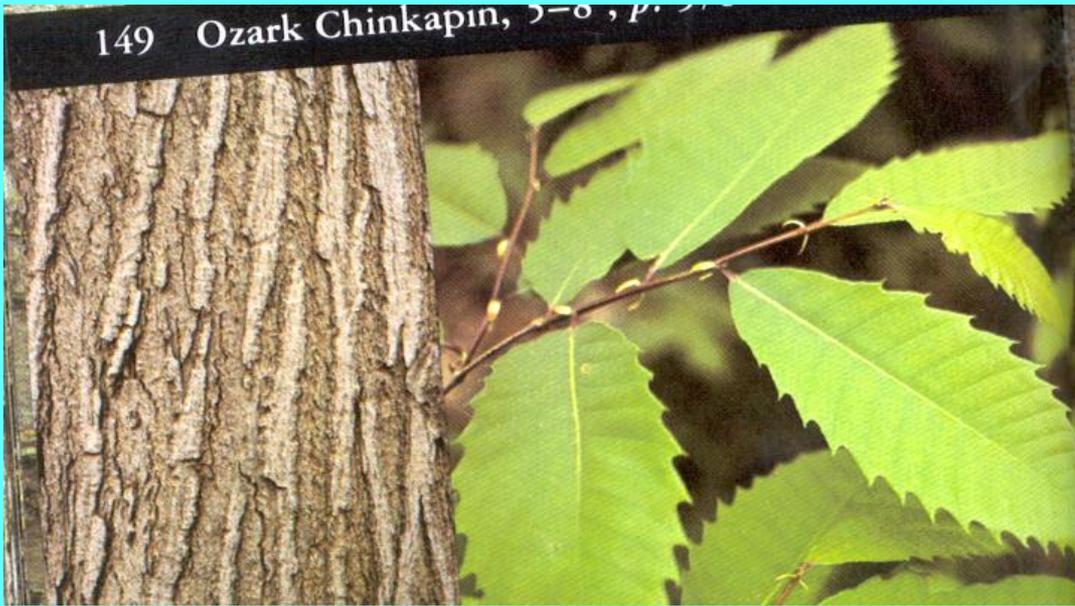


Beech



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





Chestnut

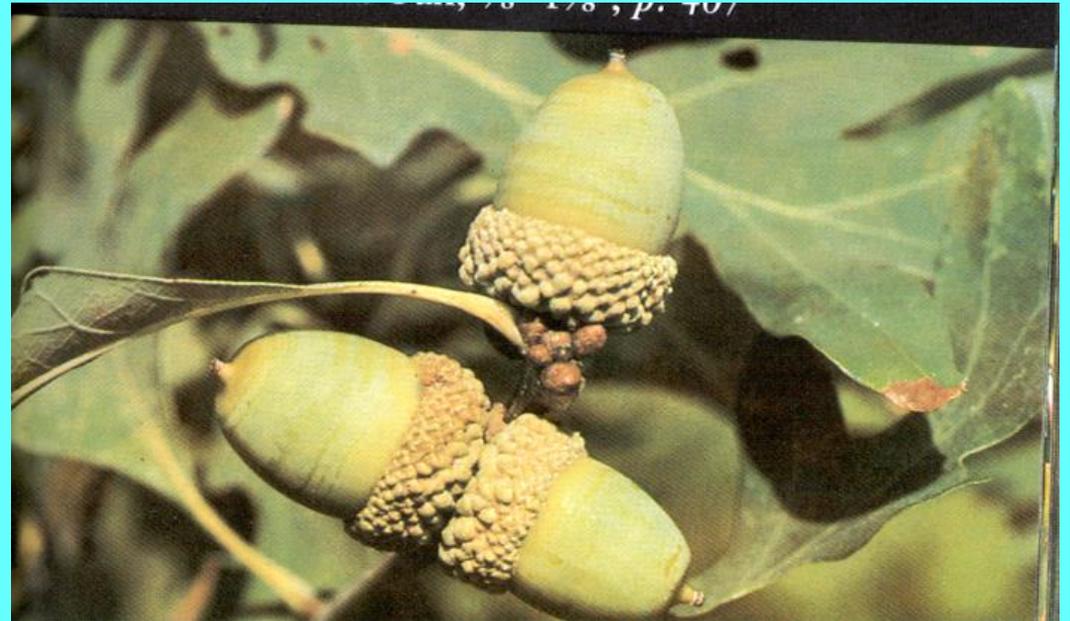
Stout twigs, with star-shaped pith; long leaves with widely-shaped, sharp teeth.

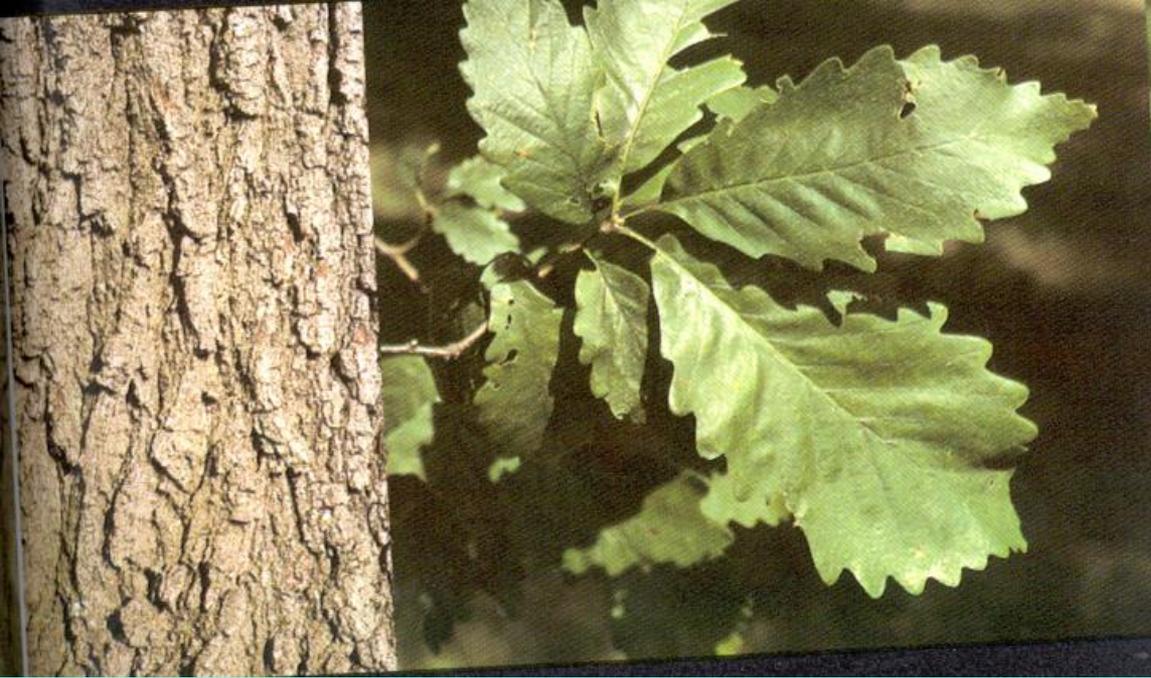




Ashy gray, flaky bark, deeply cleft lobes in leaves; a cone 1/4 enclosed in cup.

White Oak

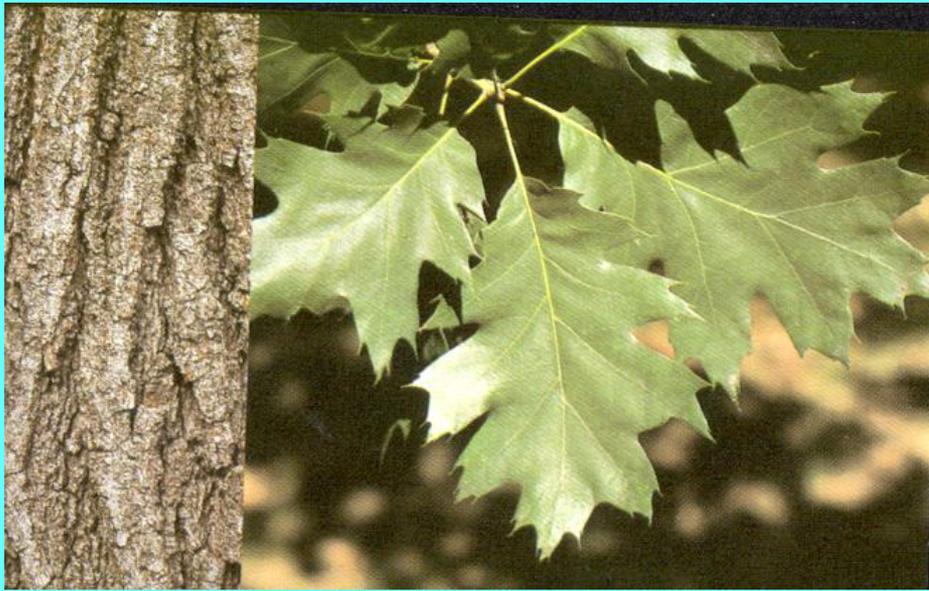




Orange streak between ridges of bark; round teeth or scallops on the leaf margin; long slim acorn.

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

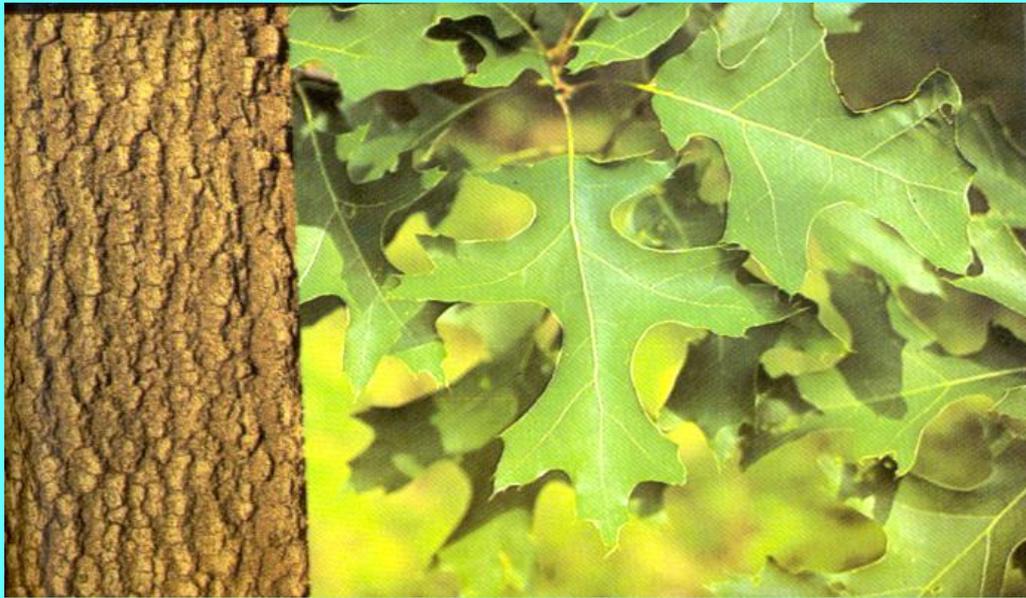




Black Oak

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

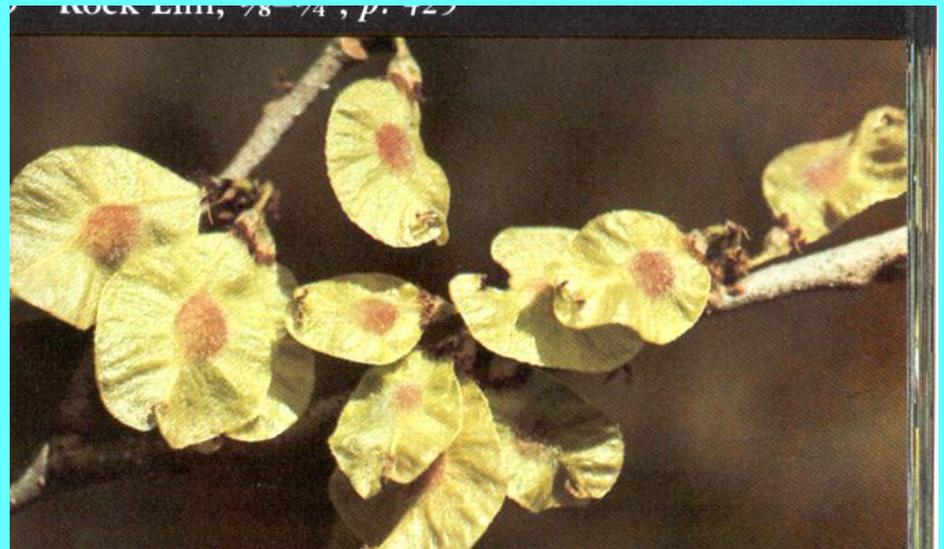
Zigzag twigs; inner bark not mucilaginous, having alternate layers of brown and white; leaf slightly rough on upper side only; with oblique base.





Slipperry Elm

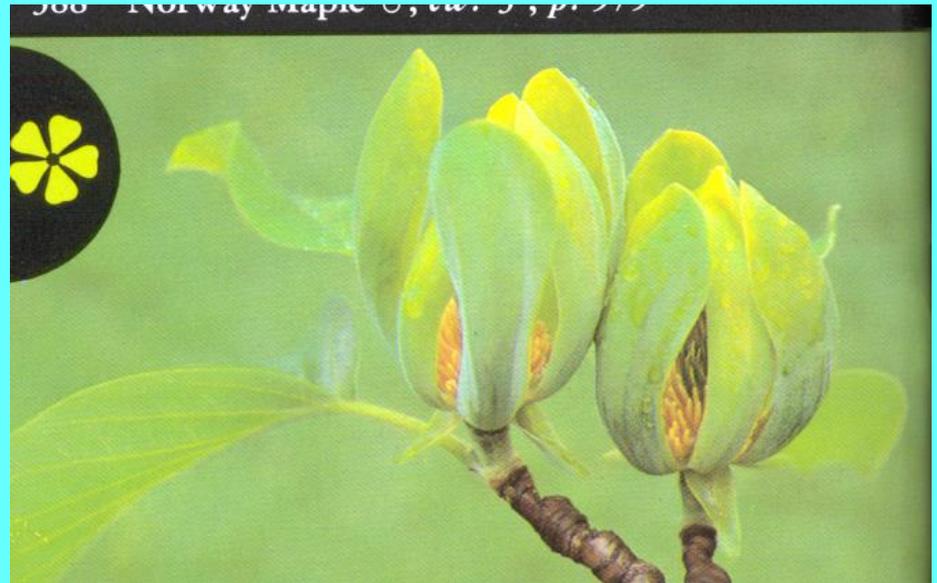
Inner bark chewy without alternate layers of brown and white, leaf base oblique, rough above and below, twigs chewy, buds tip with rusty hairs.



Cucumber Tree



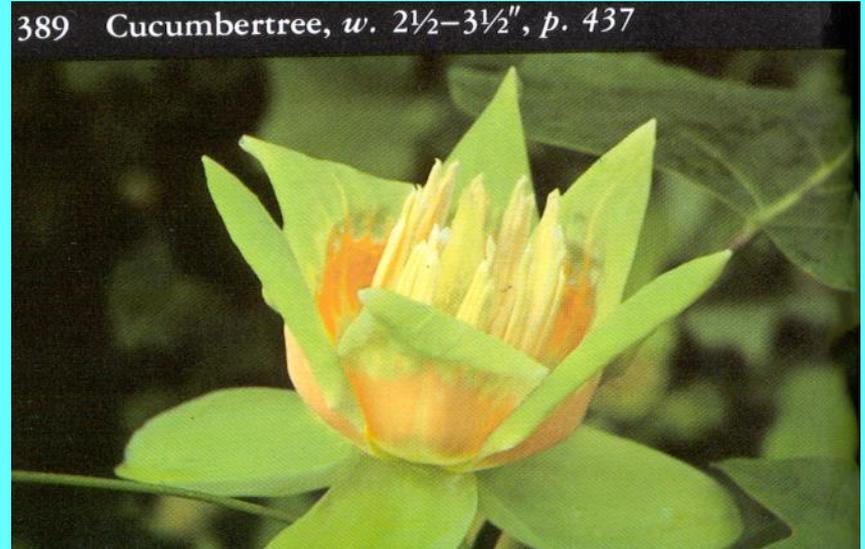
Smooth margin of larger leaf; aromatic odor of twigs; oblong terminal bud; branching like that of pear tree, fruit like cucumber.

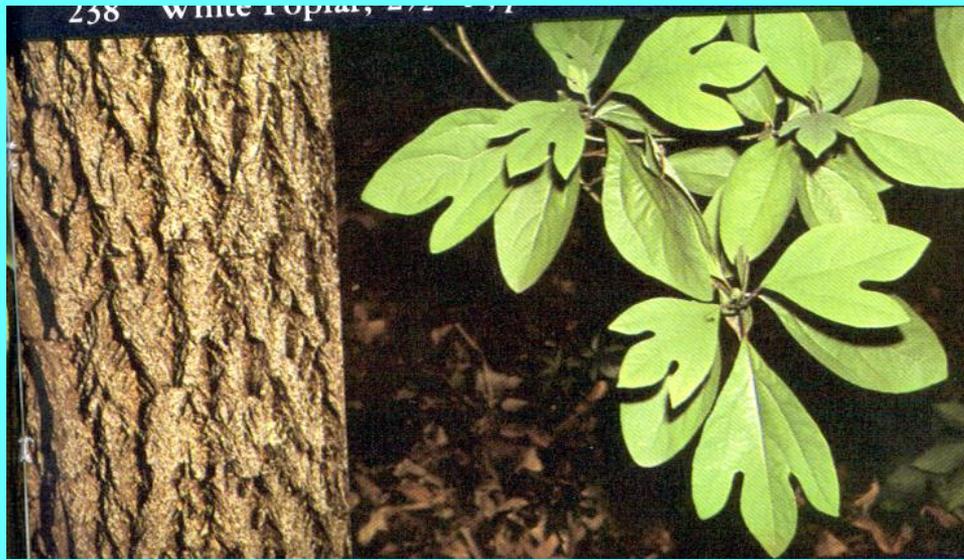




Usually leaf
without “cut off” tip
bitter taste, around
odor of
twigs; mitten-like
terminal bud.

Tulip Tree





Sassafras

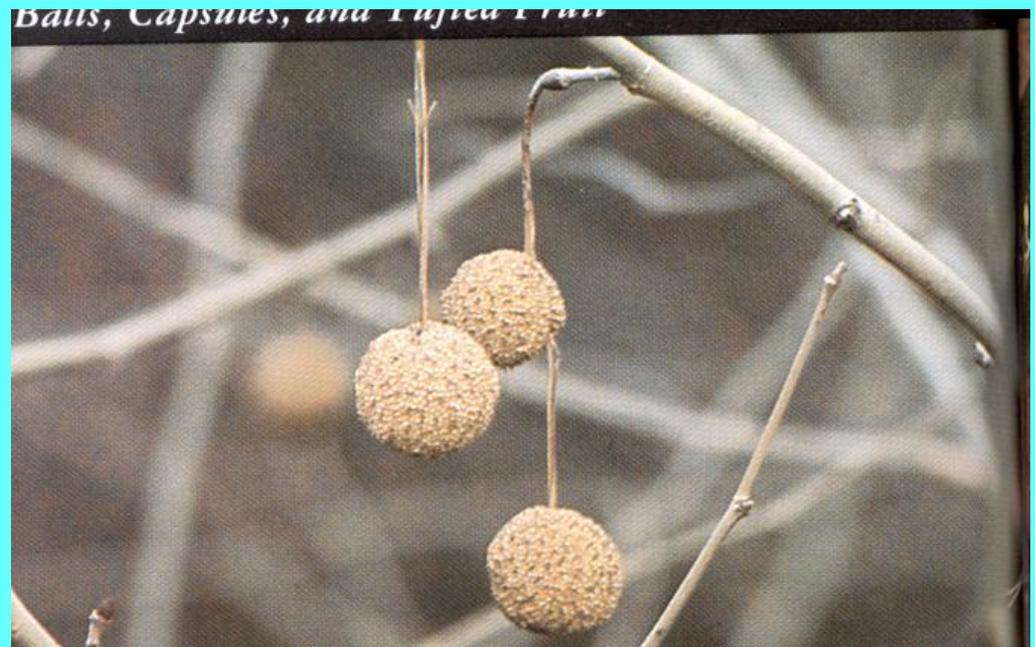
Leaves with three different shapes; inner bark cinnamon red; spicy smell of twigs.





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

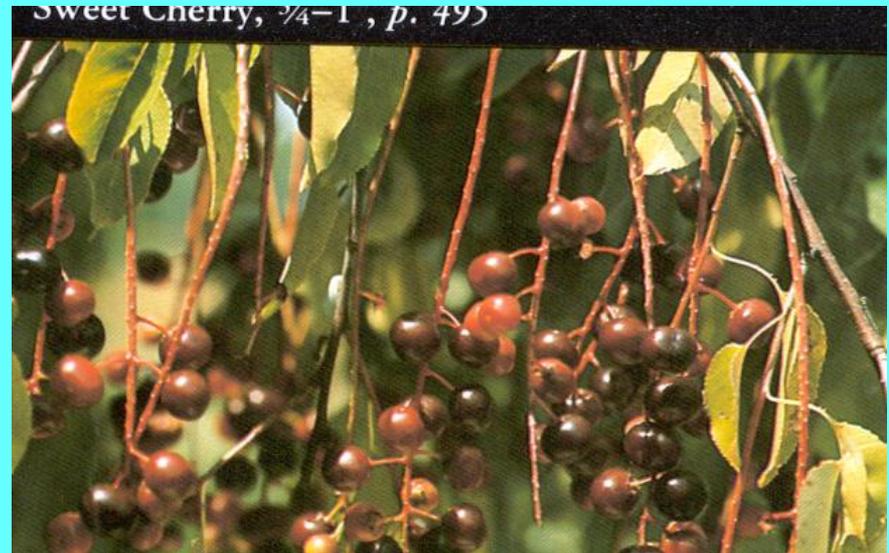
Stiff thorns, from 1 1/2 to 2 inches long; berry like fruit, usually red.





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.



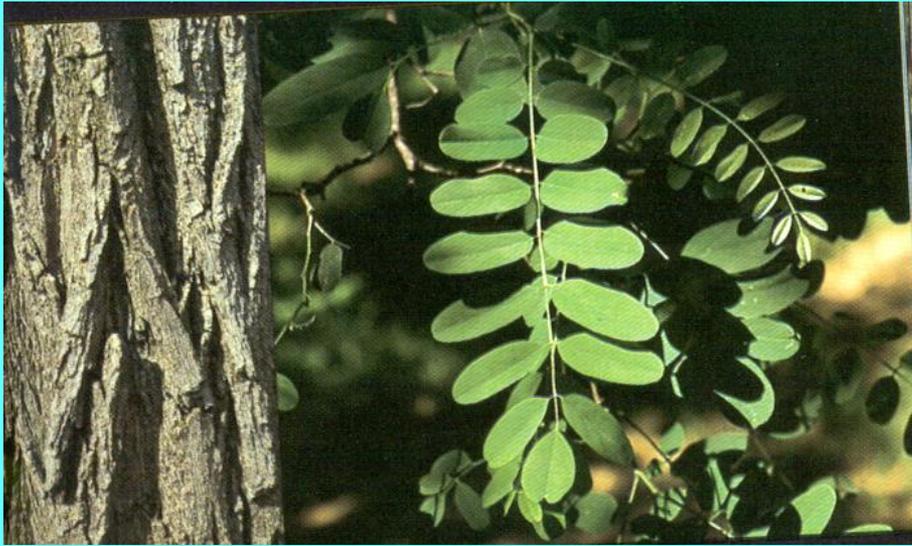


Pit Cherry

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



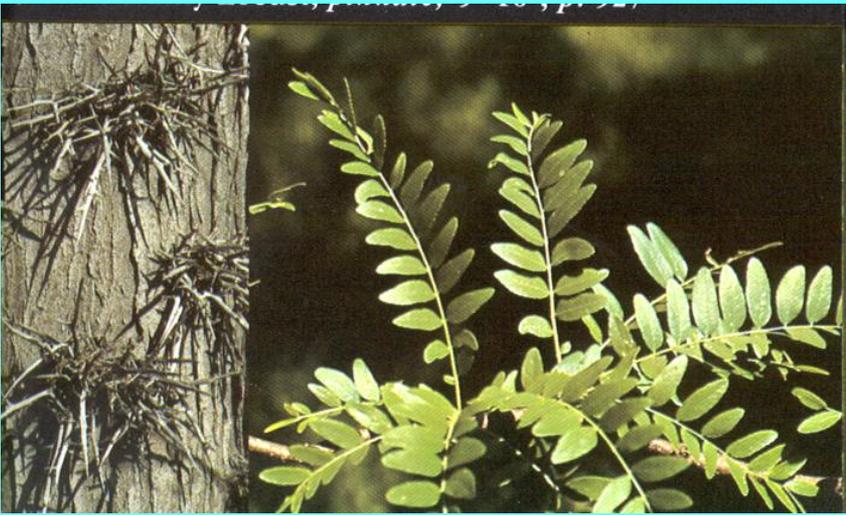
Black Locust



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.

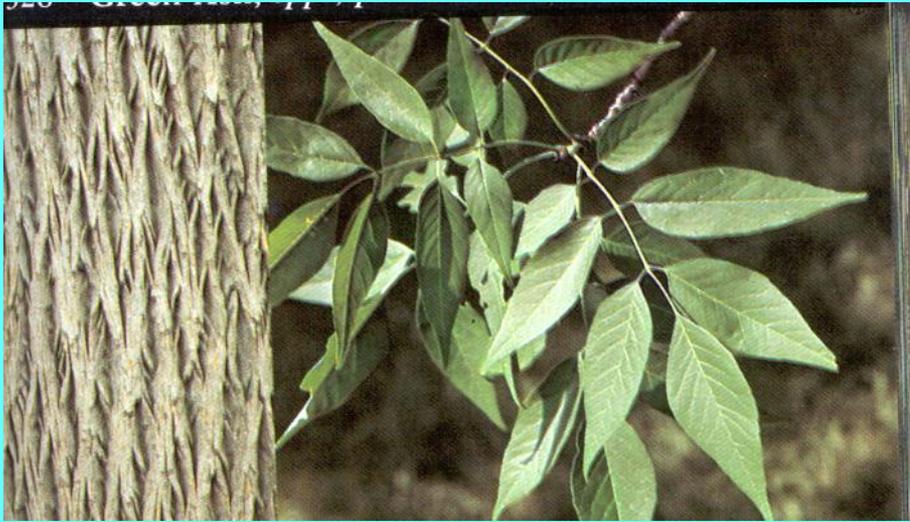




Basswood

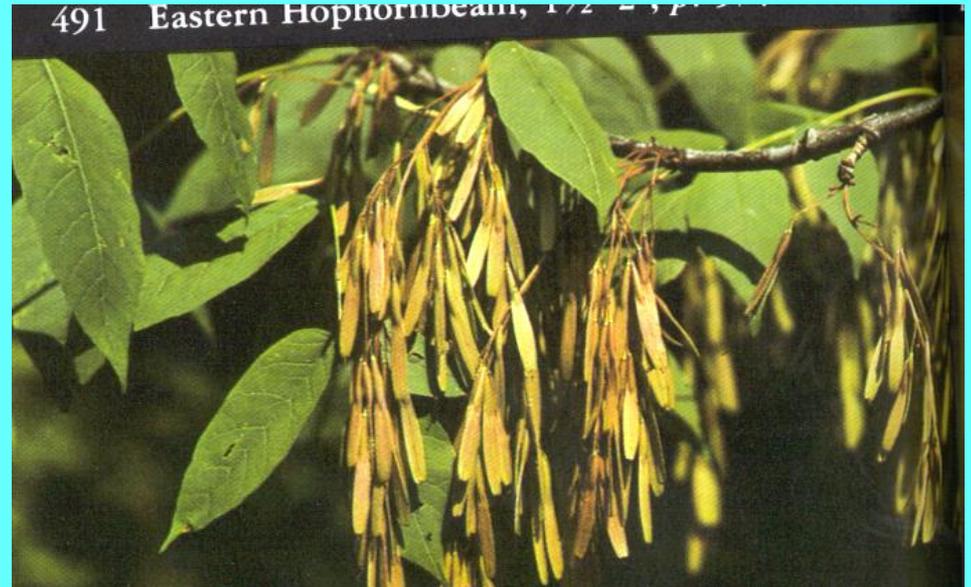
Often found in clumps;
usually large, heart-shaped
leaf; hump-backed bud on
zig-zag twig; fruit a pea-
like nut attached to a
slender "parachute"





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