

Cemetery Dichotomous Key Activity (BONUS)

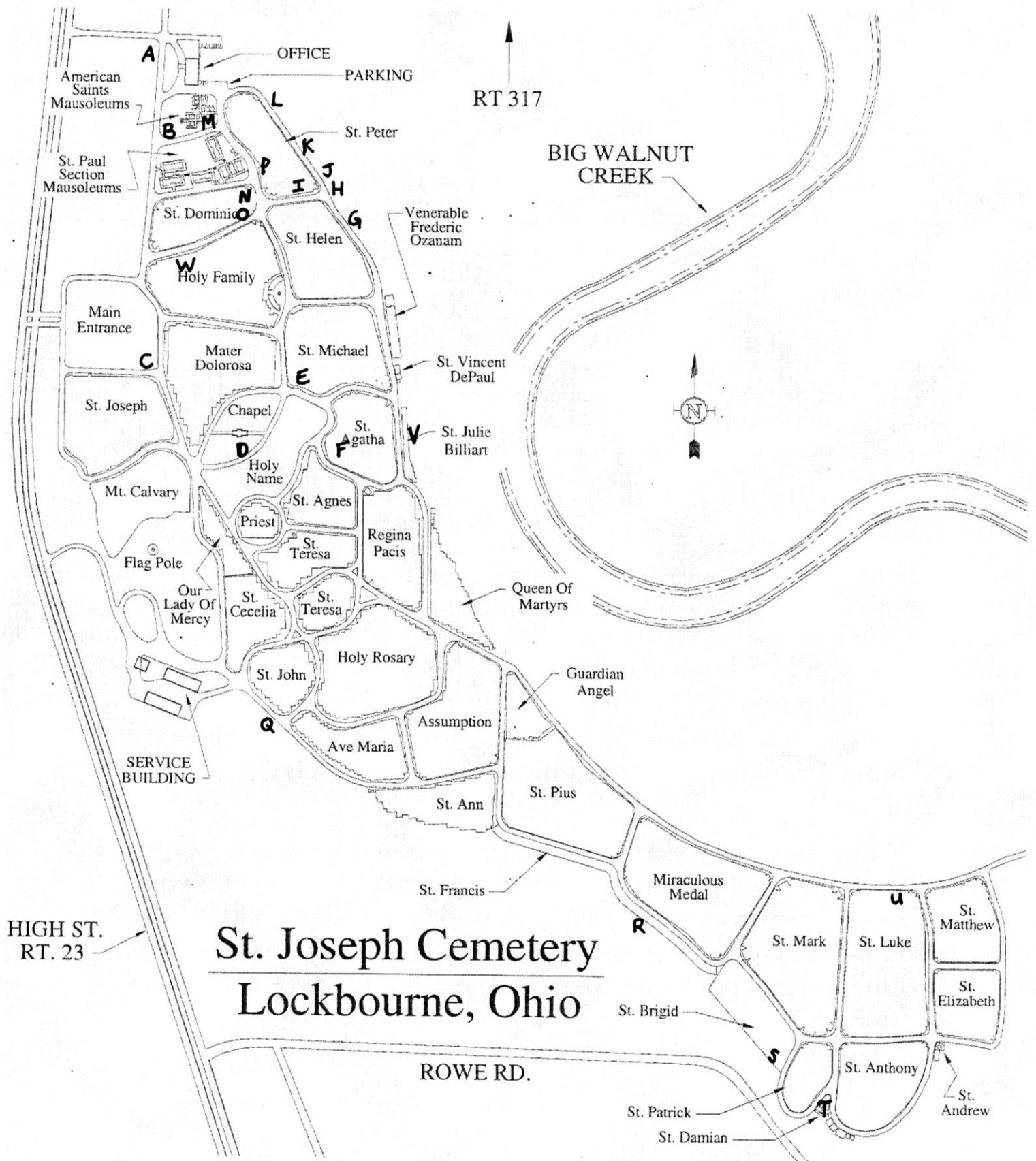
I have identified 23 species of trees at St. Joseph's Cemetery (see next page for details). In this assignment, you will have to use the dichotomous key I've created to identify these species, each of which is referenced to alphabetically (A through W).

On the lines below, write your identification of those tree species. Use whatever additional resources you deem necessary (a ruler and a sense of adventure will come in handy).

Additionally, in order for me to accept this assignment, you must demonstrate your presence at the cemetery during this activity. I suggest you take a picture, it'll last longer. (Seriously, you should use a camera, your phone, somebody else's phone, etc.) Show me the photo of you at the cemetery working on this assignment when you turn your answers in so I can verify you're not a copying pumpkin-eater. WITHOUT A CONFIRMATION PHOTO, NO (EXTRA) CREDIT WILL BE AWARDED!!!

Most of all, good luck!

A	M
B	N
C	O
D	P
E	Q
F	R
G	S
H	T
I	U
J	V
K	W
L	



St. Joseph Cemetery Lockbourne, Ohio

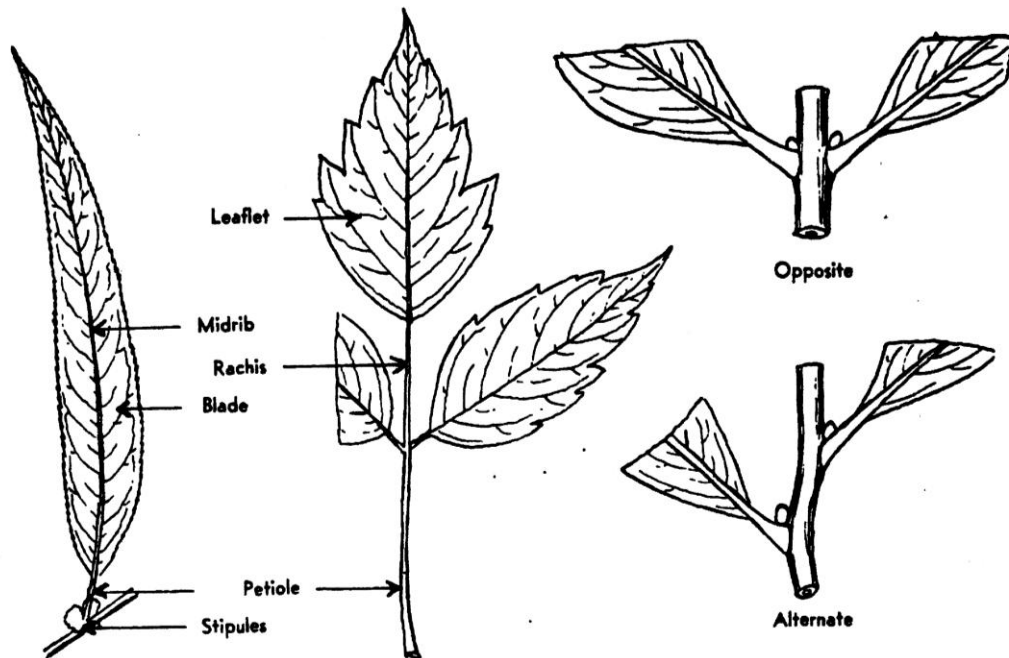
St. Joseph Cemetery

6440 S. High Street
Lockbourne, OH 43137
Phone: 614-491-2751

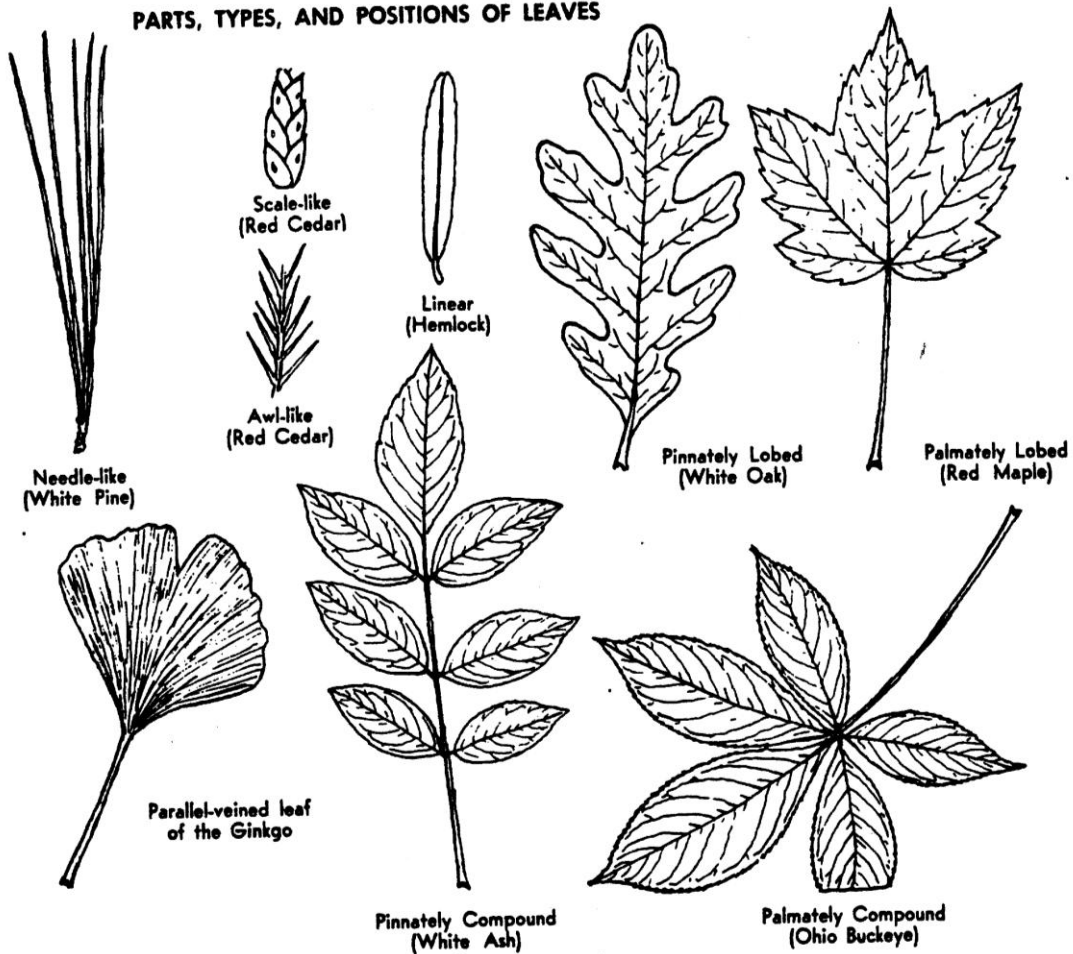
Tree Location Notes

- E: By large "Ziegler" monument
- F: Behind "Ucker" tombstone
- H: Across from "St. Helens" sign
- O: Next to bush
- R: Between "Rosati" and "Galluci" tombstones
- U: Behind "Hayden" tombstone
- V: Behind "Way Family" monument
- W: It's the big, solitary, weird-shaped tree

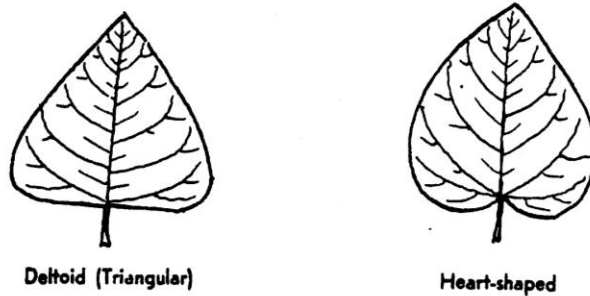
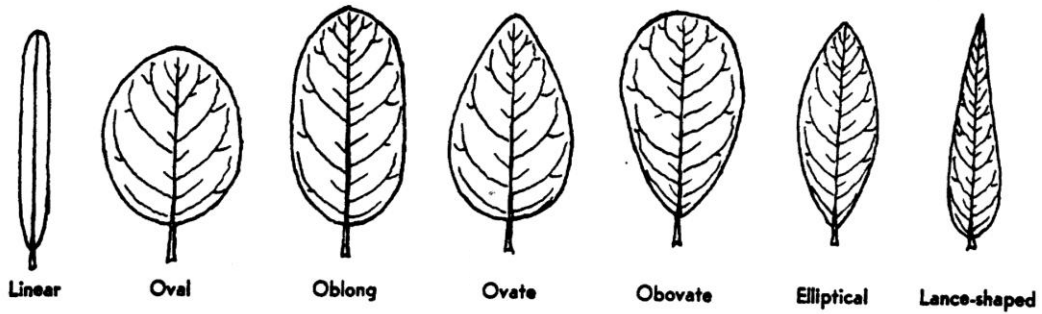
Parts, types, and positions of leaves



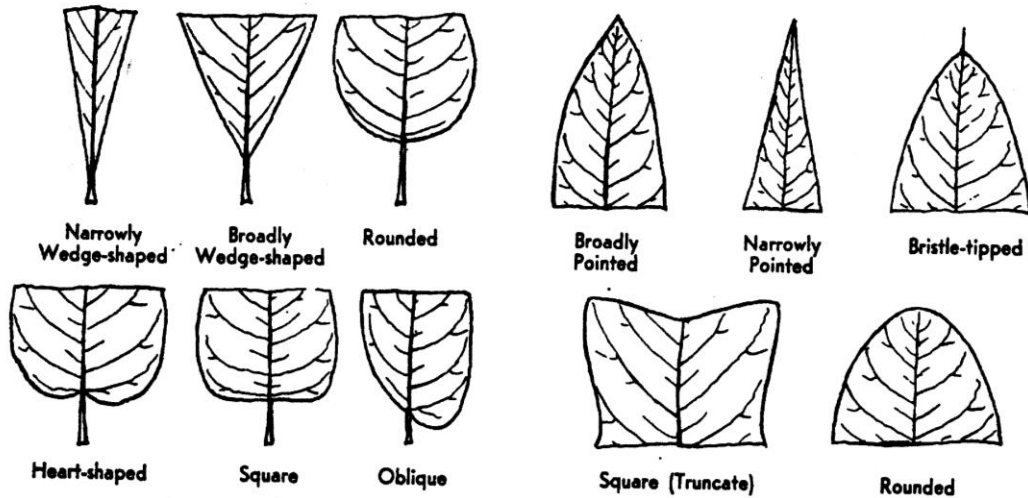
PARTS, TYPES, AND POSITIONS OF LEAVES



Shapes of leaves

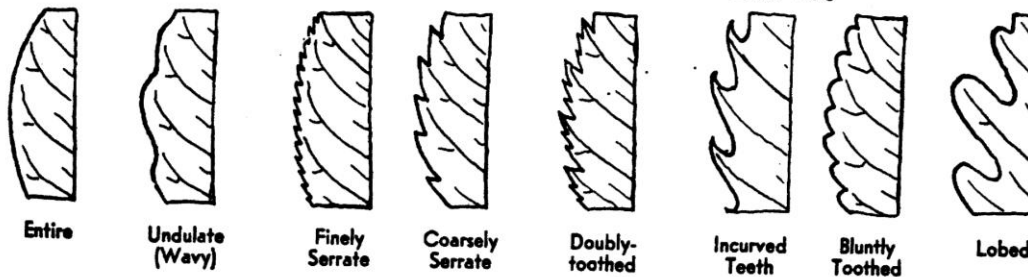


SHAPES OF LEAVES



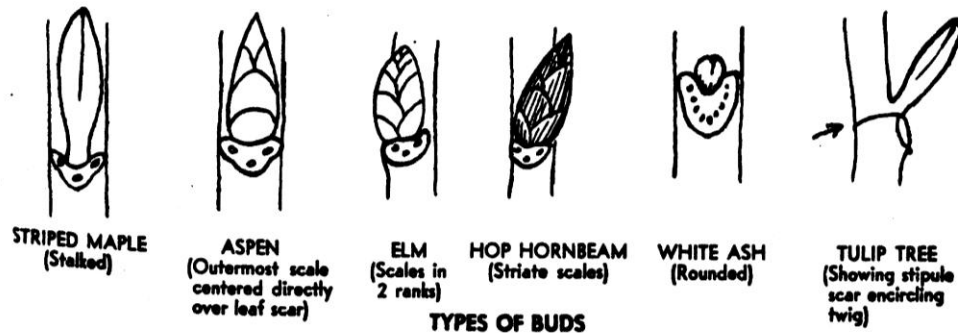
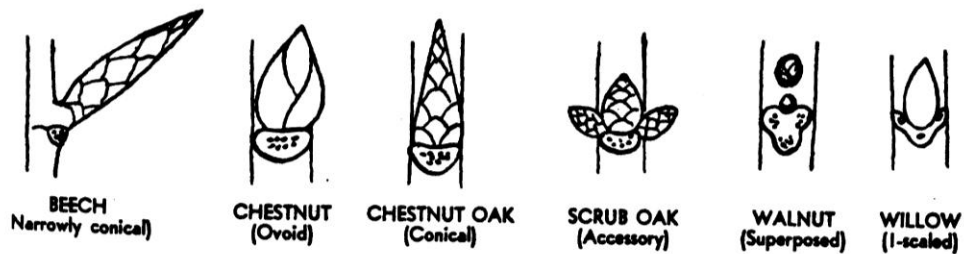
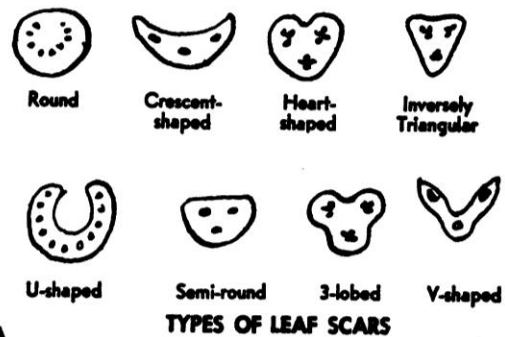
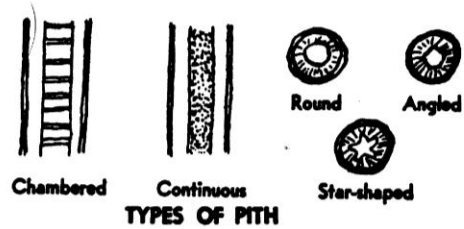
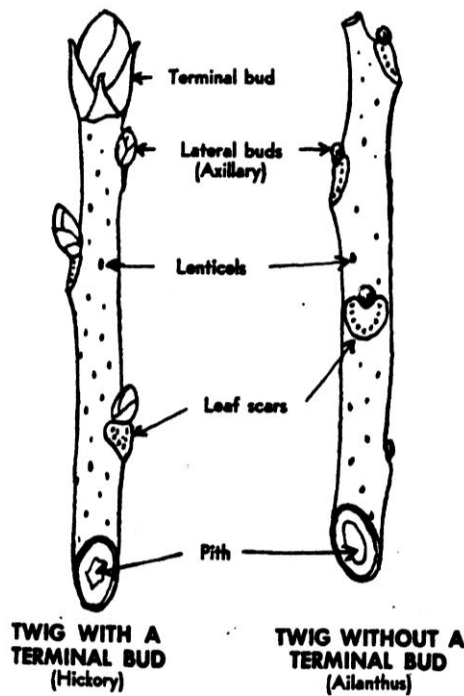
LEAF BASES

LEAF TIPS



TYPES OF LEAF MARGINS

Twigs, Leaf scars, and Buds



1 a	Leaf blades narrow (needles)		go to 2
1 b	Leaf blades broad and flat		go to 6

2 a	Needles Long (4"), in bundle of 5		White Pine
2 b	Needles short (<2")		go to 3

3 a	Needles soft to touch		go to 4
3 b	Needles sharp to touch, 4-angled (determined when rolled between thumb and index finger); cones drooping		go to 5

4 a	Leaves 1" long, in feather-like spray; short twigs 3 1/2" long with many small leaves; bark fibrous, stringy		Dawn Redwood
4 b	Needles 1/2" , flat, blunt, soft and flexible; cones drooping, 3/4"		Eastern Hemlock

5 a	Needles 3/4", rigid, dark green; cones 6" and narrow; drooping branches		Norway Spruce
5 b	Needles 1" , pale blue-green, prickly; cones 3"		Blue Spruce

6 a	Leaves compound		go to 7
6 b	Leaves simple		go to 11

7 a	Leaves opposite, palmately compound		go to 8
7 b	Leaves not like above		go to 9

8 a	Usually 7 leaflets, broad and blunt-tipped, widest near tip		Common Horsechestnut
8 b	Usually 5 leaflets, tapered and pointed at tip		Ohio Buckeye

9 a	Usually 3-5 leaflets, fresh twigs greenish; paired fruit		Box Elder
9 b	Pinnately compound leaves		go to 10

10 a	Leaves 12', usually 7 leaflets each 4" long; leaf scars on twigs usually U-shaped		White Ash
10 b	Leaves 6', 15-30 leaflets each 1" long; often with spikes (up to 3") on trunk and branches		Honeylocust

11 a	Leaves fan-shaped, 3" , all veins radiating from base		Ginkgo
11 b	Leaves not like above		go to 12

12 a	Leaves 5", distinctive star-shaped, 5-7 lobes, fine-toothed; fruit 1", long-stalked woody ball of pointed capsules		Sweet Gum
12 b	Leaves NOT distinctively star-shaped		go to 13
13 a	Leaves with smooth margin (no teeth)		go to 14
13 b	Leaves with toothed margins		go to 16
14 a	Leaves 4", round-to-heart-shaped, hanging down; fruit pods 2 1/2", flattened		Eastern Redbud
14 b	Leaves oblong to elliptical in shape		go to 15
15 a	Leaves 5" dark green, stiff with wavy edge, underleaf paler green		"Saucer" Magnolia
15 b	Leaves 4 1/2", pinnate veins curve to follow leaf edge; underleaf whitish; flower with 4 notched-tipped "petals"		Flowering Dogwood
16 a	Leaves 3 to 5-lobed, broad		go to 17
16 b	Leaves NOT regularly-lobed		go to 19
17 a	Leaves very large and broad, 7", 3-5 lobes with many teeth, drab green; bark peeling to reveal whitish beneath		American Sycamore
17 b	Leaves 5", 5-lobed		go to 18
18 a	Basal lobes long; leaf edges tend to curl up; milky white sap when leaf is removed; fruit 1 3/4", spreading		Norway Maple
18 b	Basal lobes short; edges tend to droop; fruit 1", wings at right angles or less		Sugar Maple
19 a	Leaves double-toothed		go to 20
19 b	Leaves NOT double-toothed		go to 21
20 a	Leaves 3 1/2", coarsely double-toothed and glossy above, long-stalked; dark of mature trunk whitish, nonpeeling		Gray Birch
20 b	Leaves 4", finely double-toothed, oval and short-stalked; young trunk bark golden bronze and often peeling		Yellow Birch
21 a	Toothed leaves with broad, uneven base, 3 1/2"; bark developing warty ridges; branches cluster in "witches broom"		Northern Hackberry
21 b	Toothed leaves with even base		go to 22
22 a	Leaves 4", tip pointed, with many straight parallel veins; bark smooth, pale gray		American Beech
22 b	Leaves 2 1/2", finely-toothed, often with pointed lobes at base; fruit 1", yellow-green, long-stalked, very sour		Crab Apple