

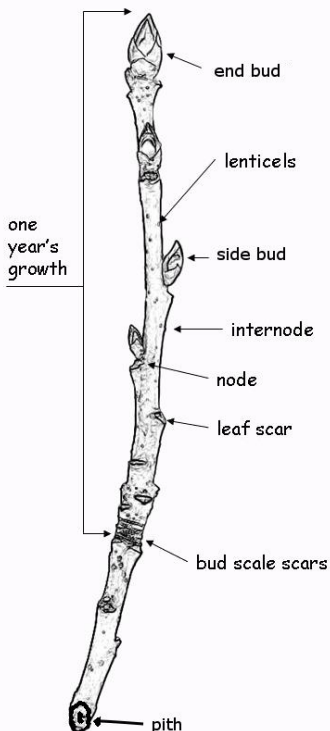
# A Simple Key to Winter Trees in NW Michigan

Page numbers correspond to "Field Guide to Northwest Michigan" (GRNA, 2016)



1. Buds are **opposite** \_\_\_\_\_ go to #2
1. Buds are **alternate** \_\_\_\_\_ go to #4
2. The end buds are rough/dry and rounded; the bark has ridges w/ a checkered x-pattern\_\_ **Ash (p.46)**
2. The end buds are smooth and pointed/egg-shaped \_\_\_\_\_ go to #3
3. Buds brown, pointed and with many scales; bark blocky and gray \_\_\_\_\_ **Sugar Maple (p.44)**
3. Buds & twigs red; clustered flower buds; smooth gray bark, peeling w/ age \_\_\_\_\_ **Red Maple (p.44)**
4. The twig is fuzzy; leaf scars are C-shaped \_\_\_\_\_ **Staghorn Sumac (p.49)**
4. End bud is a cluster of buds \_\_\_\_\_ **Oak (p.40)**
4. End bud is single \_\_\_\_\_ go to #5
5. Twig thick; large heart/shield-shaped leaf scar, large end bud \_\_\_\_\_ go to #6
5. Twig is not like above \_\_\_\_\_ go to #7
6. Buds are pale and fuzzy; pith in thin layers; round lenticles \_\_\_\_\_ **Walnut (p.45)**
6. Pith five-sided, not layered, lenticles long \_\_\_\_\_ **Hickory (p.45)**
7. Branch has dangling catkin flowers \_\_\_\_\_ go to #8
7. Branch has no dangling catkin flowers \_\_\_\_\_ go to #9
8. Bark is thin/peeling like paper in large pieces \_\_\_\_\_ **Birch (p.40-41)**
8. Dark bark w/ speckled twigs, curved buds, mahogany catkins, some w/ hard "cones" \_\_ **Alder (p.47)**
8. Bark shreddy, has thin stripes peeling up and down tree; slender twigs \_\_\_\_\_ **Ironwood (p.41)**

## TWIG ANATOMY



9. Bud is enclosed in a single cap-like scale \_\_\_\_\_ **Willow (p.42)**
9. Bud not enclosed in single scale \_\_\_\_\_ go to #10
10. Bud has 2 scales \_\_\_\_\_ **Basswood (p.42)**
10. Bud has more than 2 scales \_\_\_\_\_ go to #11
11. Buds are very long and thin \_\_\_\_\_ **Beech (p.40)**
11. Buds not really long and thin \_\_\_\_\_ go to #12
12. End buds are larger than side buds \_\_\_\_\_ go to #13
12. End buds not larger than side buds, twigs zig-zag \_\_\_\_\_ go to #15
13. Large buds, some sticky, twigs gray or yellow, star pith \_\_ **Aspens (p.43)**
13. None of above; leaf scars small; \_\_\_\_\_ go to #14
14. Twig w/ horizontal lines (lenticles), dark flaky bark, tiny buds \_\_ **Black Cherry (p.42)**
14. Buds larger, fuzzy, thorn-like blunt twigs \_\_\_\_\_ **Apple (p.42)**
15. Bark smooth and muscle-like \_\_\_\_\_ **Musclewood (p.41)**
15. Buds not centered over leaf-scar, bark grooved \_\_\_\_\_ **Elm (p.41)**