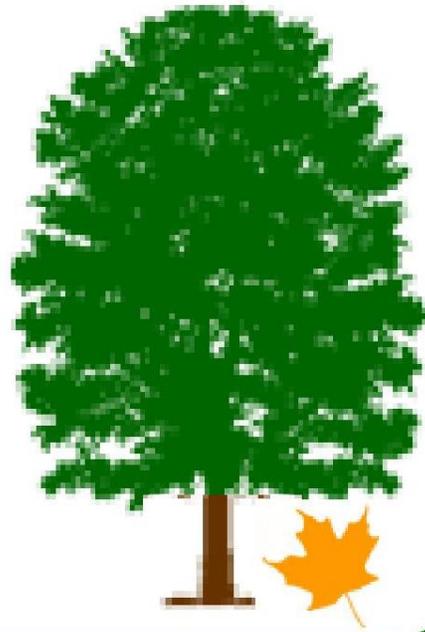


Wisconsin 4-H Forestry



UW-MADISON EXTENSION



Forestry Skill Level 1

Washington County Forestry & Wildlife 4-H Programs
West Bend, Wisconsin

Second Edition



Forestry Skill Level 1 Introduction

Name _____

Grade as of January 1 of this year _____

4-H Club Name _____

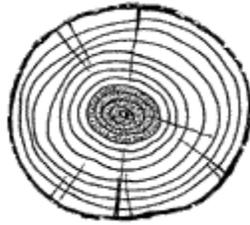
Number of years in 4-H _____

Project _____ # of Years in project _____

- Sources and resources for completing this skill level are provided on the last page of this booklet. The main source is the National 4-H Forestry Manuals, Handbook, and Forestry training materials on website.
- You may be verbally quizzed on the answers you provided which leads to more discussions.
- All answers must be verified and signed by a forestry leader if used as a fair project.
- Picture or drawing of yourself is required if used as a fair project.
- DO NOT ADD PAGES TO THIS BOOK.

HOW OLD ARE THESE TREES?

Draw a line from the tree cookies to the correct ages of the tree.



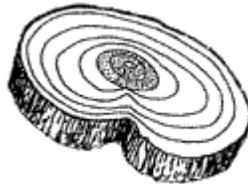
5-year-old twins



4 years old



13 years old



8 years old

In the 5th year there was a fire nearby.



6 years old

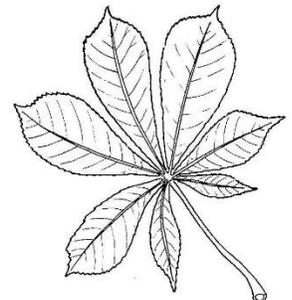
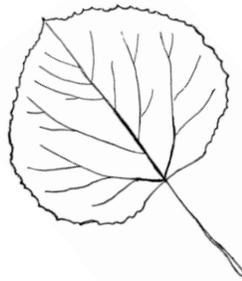
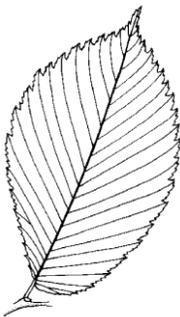
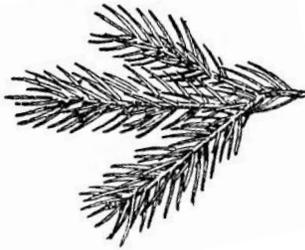
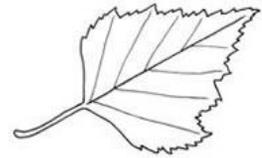
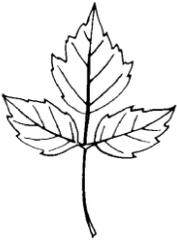
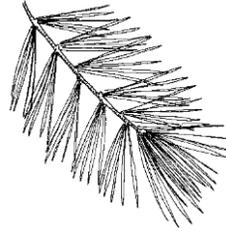
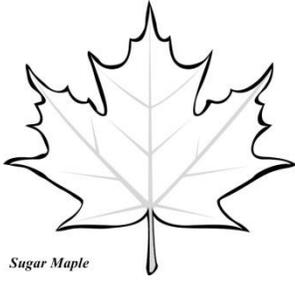
This tree had insect problems.



8 years old

This tree has a dent.

Name the Leaf



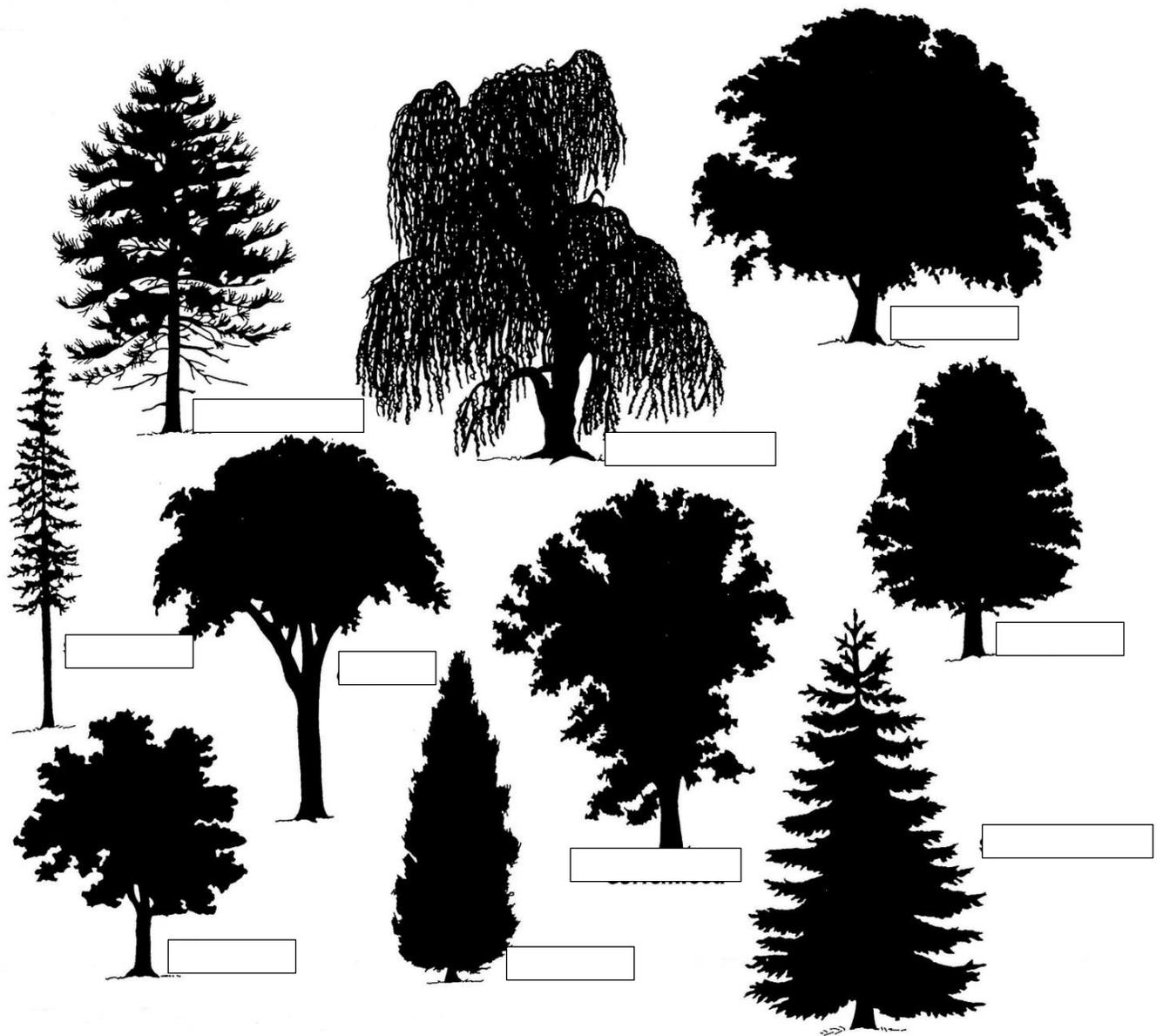
Name the leaves.

Hickory
Maple
Pine
Elm
Boxelder

Spruce
Cedar
Birch
Aspen

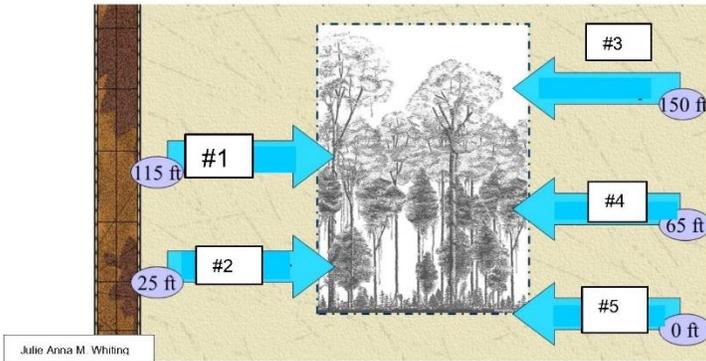
Redbud
Ash
Oak
Chestnut

Identify these TREES by their shape



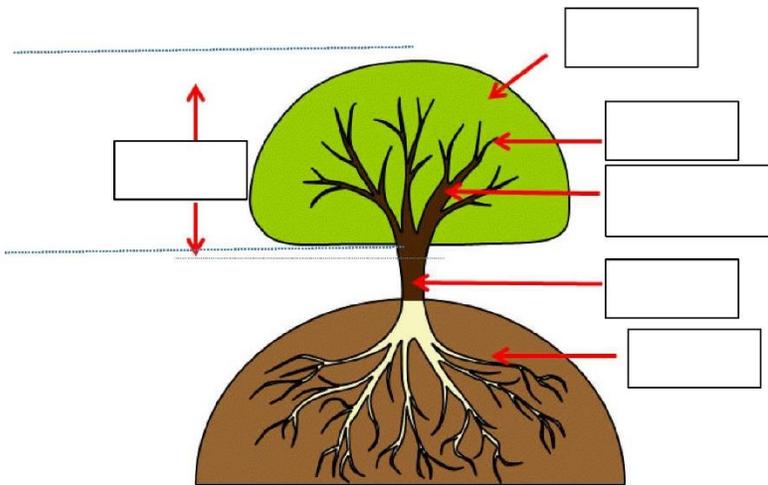
- Pine
- Oak
- Elm
- Cottonwood
- Spruce X2
- Maple
- Weeping willow
- Ash
- Cedar

Levels of the Forest



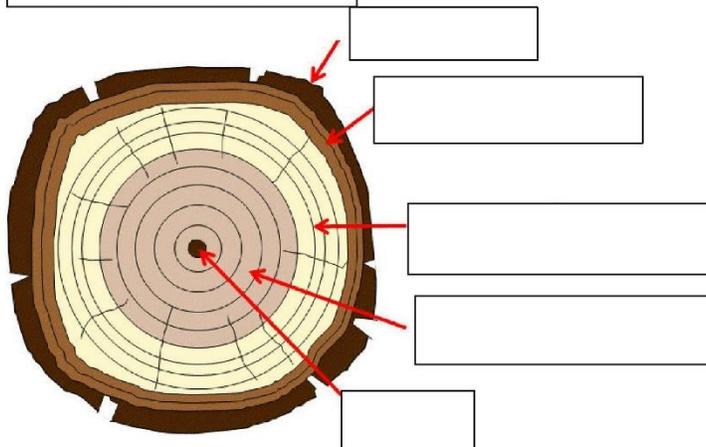
	#
forest floor	
understory	
overstory	
shrub layer	
canopy	

Parts of a Tree



twig
roots
leaves
branch
trunk
crown

Parts of a tree trunk



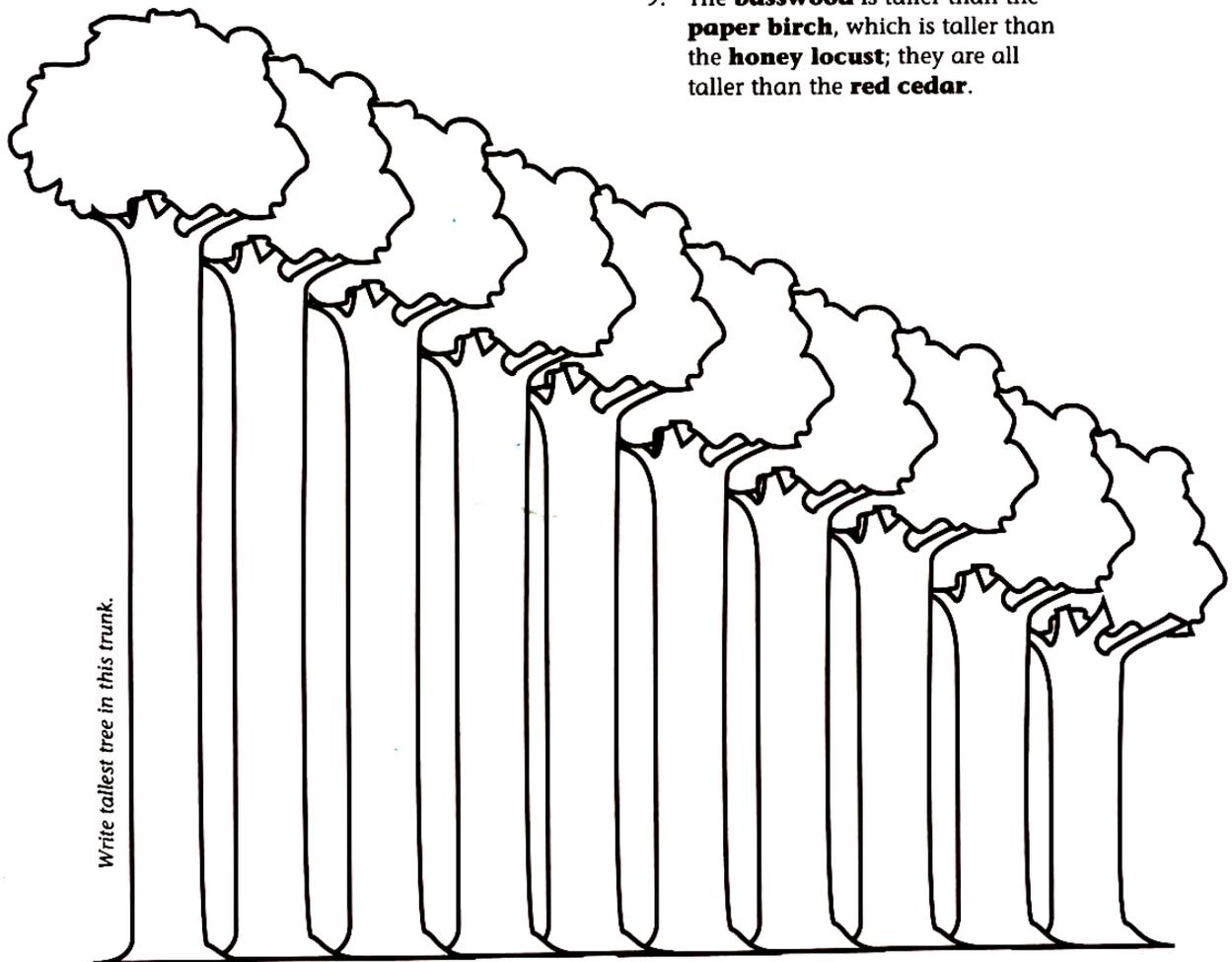
pith
heartwood
bark
cambium
sapwood

Taller Trees

Like all living things, trees grow, mature, and die. How tall can a healthy tree grow in its lifetime?

● Arrange these native Wisconsin trees in order of their *mature* height, starting with the tallest. The names of the trees are in **bold**. There are 10 different trees to arrange.

1. The **sugar maple** is next to the **white pine**.
2. The **honey locust** is taller than the **ironwood**, which goes next to the **red cedar**, which is shorter.
3. The **white pine** is the tallest tree in this group.
4. The **paper birch** is taller than the **red cedar**, and they are both taller than the **serviceberry**.
5. The **paper birch** and the **green ash** are next to each other.
6. There are no trees lined up between the **red pine** and the **sugar maple**.
7. The **green ash** is shorter than the **basswood**, which is also shorter than the **red pine**.
8. The **paper birch** is taller than the **green ash**.
9. The **basswood** is taller than the **paper birch**, which is taller than the **honey locust**; they are all taller than the **red cedar**.



ACTIVITY CHECKLIST (number 1*, 2*, and 3*, required) Minimum of five:

Check the boxes of activities in which you have participated.

- *1. Plant: Identify (one) shrub or tree, that you can identify outdoors and discuss where it is found and who lives by or in it.

Plant _____ I _____ Shrub _____ Tree _____

Wildlife _____

- *2. Wildlife: Identify one Wisconsin large or small mammal that you can identify in the wild and identify its food and habitat: Large: _____ Small: _____

MAMMAL: _____ Forest _____ Prairie _____ Wetland _____ Urban _____

Foods _____

- *3. Talk or Demonstration related to forestry.

_____ date _____

4. Forestry related item that I made (Example: leaf press, tree cookie, etc.)

_____ date _____

5. Went camera hunting or took tree or shrub pictures. date _____

6. Participated in _____ Forestry Contest or _____ Wildlife/Forestry Art Contest.

date _____

7. Other (please explain) _____ date _____

FAMILY ACTIVITY CHECKLIST: Minimum of three.

Check the boxes of activities that you have participated in with your family.

- Forestry activity: Went on a nature hike with family member or friends.
Location _____ date _____

- Forestry activity: Back 40 or Backyard Activity with family member or friends.

Activity _____ Location _____ date _____

- Forestry activity: Visited a woodland or similar outdoor area with family member.

Location: _____ date _____

- Other (please explain) _____ date _____

- Other (please explain) _____ date _____

Date _____ Leader _____

Sources & Resources

<http://fyi.uwex.edu/whepwi4h/>

Need more information on Forestry? <http://4hforestryinvitational.org/> and forestinfo.org for interesting topics on forestry.

<http://www.4hforestryinvitational.org>

Forestry Manuals

- **Training**
 - **2019 Invitational Handbook**
 - **Invitational Glossary**
 - **Forestry Manuals**
 - **Insect and Disease Contest**
 - **Tree Identification Contest**
 - **Compass Traverse Contest**
 - **Tree Measurement Contest**
 - **Forest Evaluation Training**
 - **Forestry Bowl**
 - **Topographic Map Contest**
 - **Outside Resources**
 - **Quiz Bowl and Exam Study Guide**

The National 4-H Forestry Member's Manuals and Leader's Guide are official Invitational references for questions used in the Forestry Bowl competition and the written exam. You can access each of these manuals by clicking on the icon next to the manual's title. The manuals are in PDF format, so you will need Adobe Acrobat Reader® on your computer to read them. This software can be [downloaded free](#).

- [4-H Forestry Program A - Trees; Member's Manual \(PDF, 1.8 MB\)](#)
- [4-H Forestry Program B - Forests; Member's Manual \(PDF, 1.7 MB\)](#)
- [4-H Forestry Program C \(PDF, 2.1 MB\)](#)