

Tree ID Basics

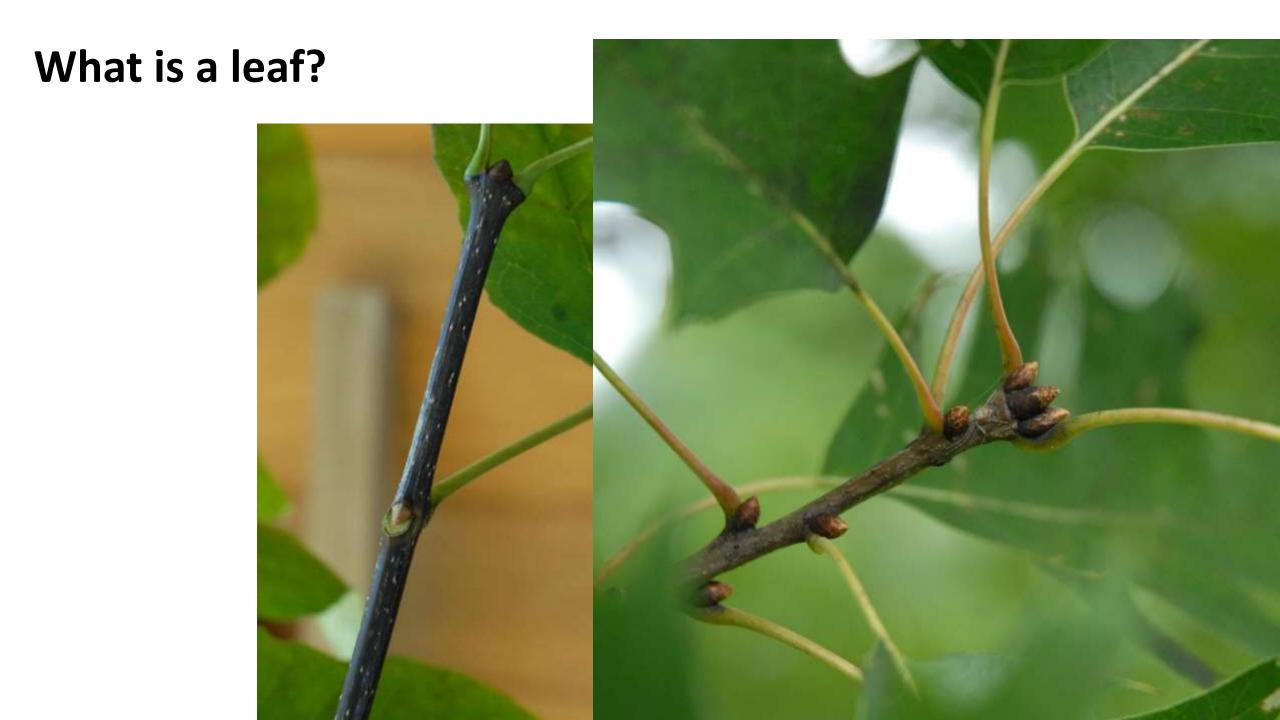
- Deciduous vs Conifer
- Branching Patterns
 - Opposite
 - Alternate
 - Whorled
- Leaf Types
 - Simple
 - Pinnately compound
 - Palmately compound
 - Bi-pinnately compound
- Key characteristics



Deciduous vs Conifer

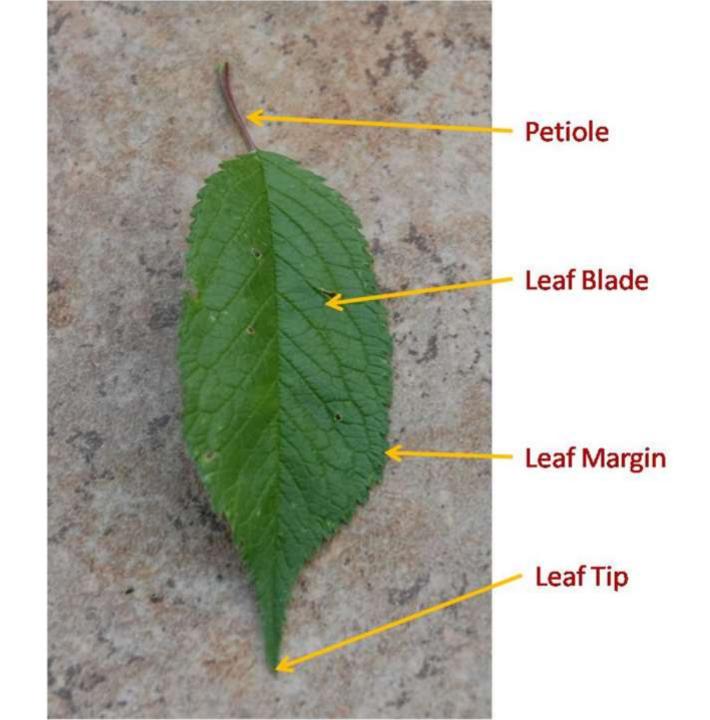






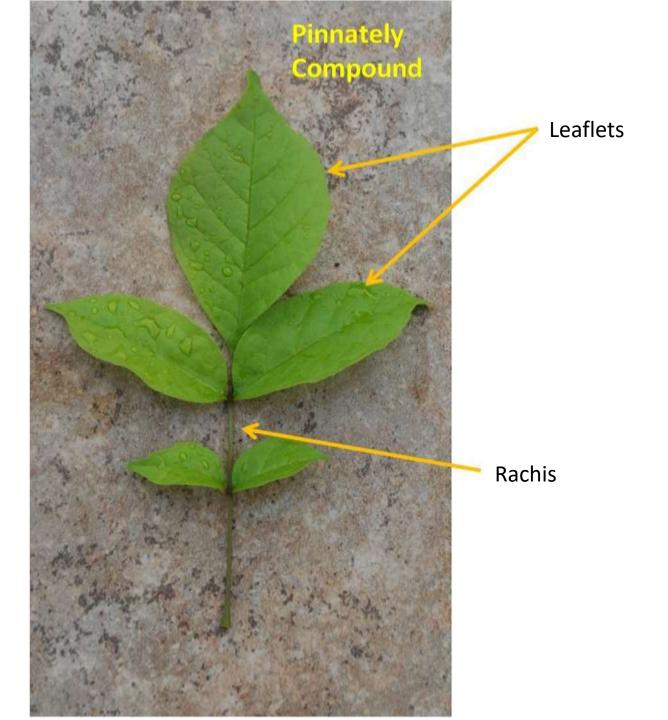
Simple Leaf

- single leaf blade



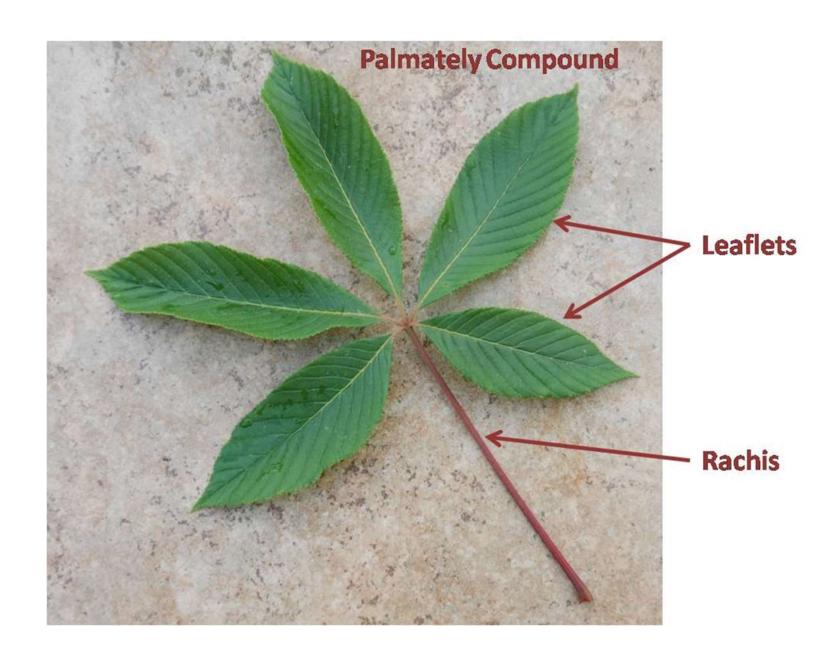
Pinnately compound leaf

- multiple leaflets
- number of leaflets can play a critical role in identification



Palmately compound

- all leaflets oriented around a single point



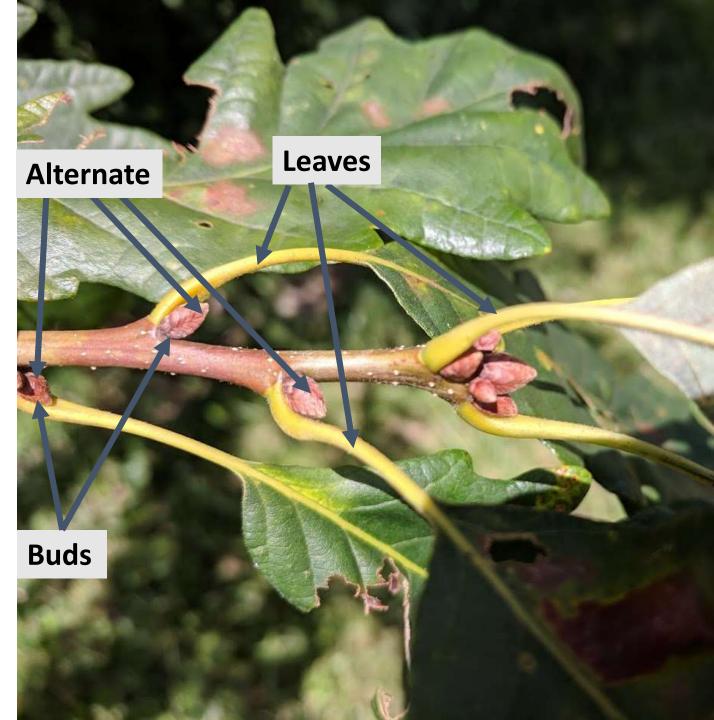
Bi-pinnately compound

 many leaflets on what look to be multiple pinnately compound leaves



Branching Patterns

- Patterns leaves, twigs and buds follow the same pattern on a tree:
 - Alternate
 - Whorled
 - Opposite

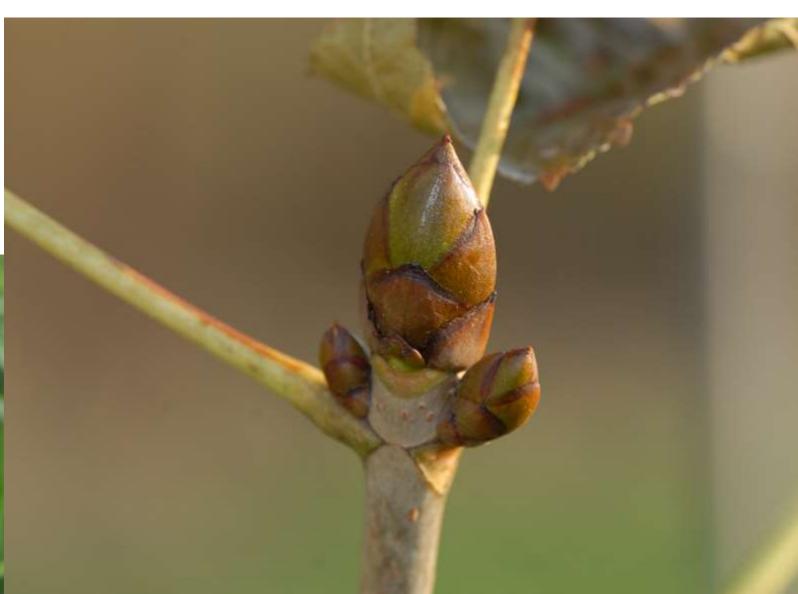




Branching Patterns

Opposite



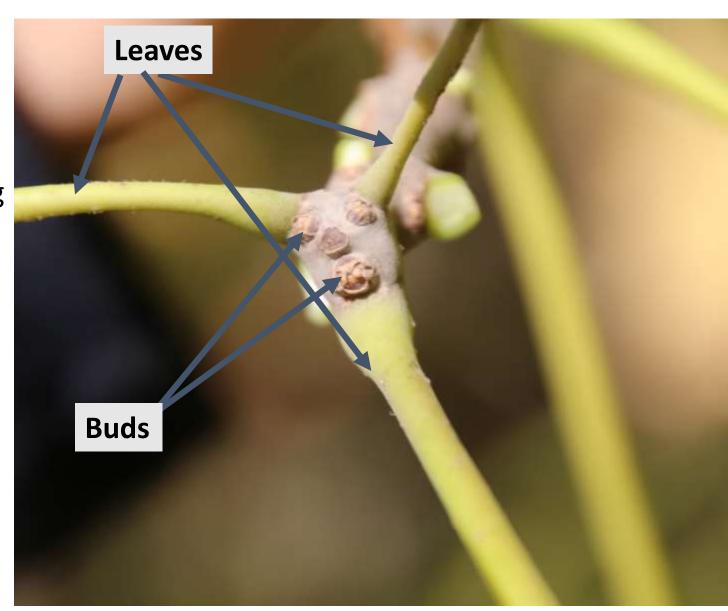


Branching Patterns

Whorled

- Three leaves originating at the same position on the twig
- In Ohio this is catalpa

Northern catalpa Catalpa speciosa

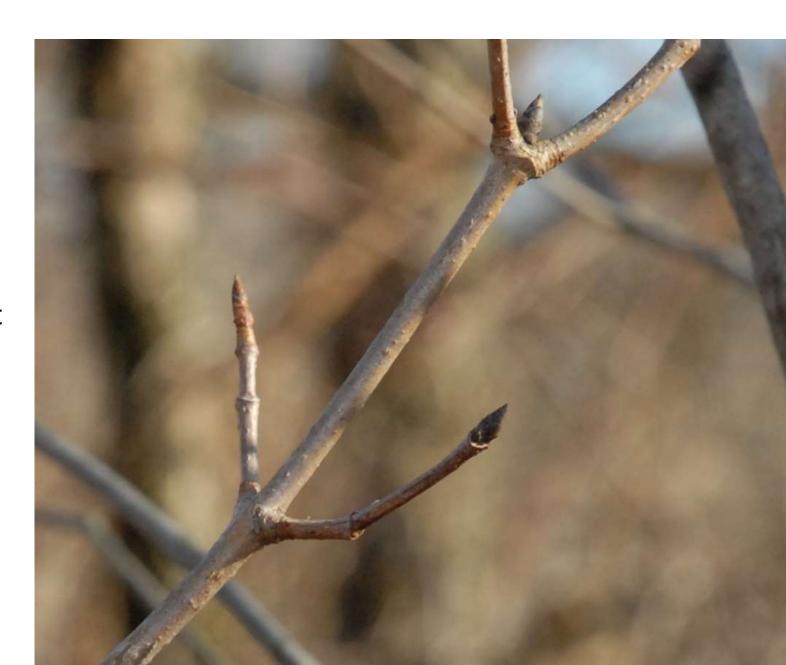






Opposites

- Think MADBuck
 - **M**aple
 - Ash
 - **D**ogwood
 - Buckeye and horsechestnut



Sugar Maple Acer saccharum



Silver Maple Acer saccharinum







Red Maple Acer rubrum





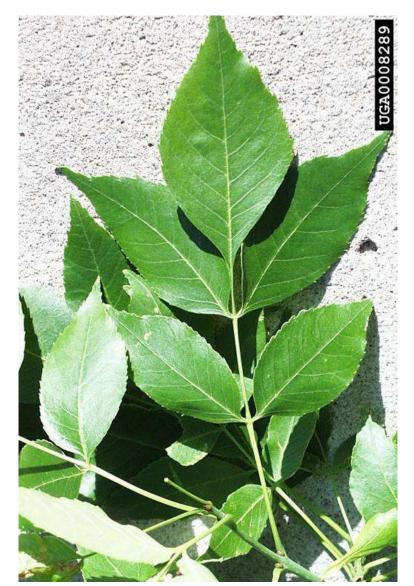
Blue Ash Fraxinus quadrangulata



Green Ash Fraxinus pennsylvanica







Dogwoods

Flowering



Buckeye



Ohio

Yellow







What's Left? Alternates

- Oaks make up a large part of the alternates in Ohio
- They have a cluster of buds at the tip of the twig
- They produce acorns another good way to differentiate between the species
- We can split them into reds and whites









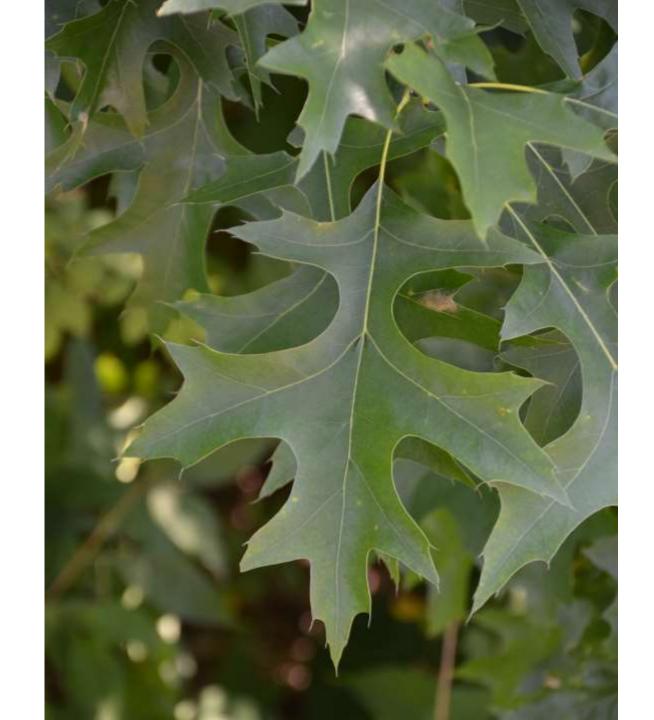






Red Oaks

- Leaves have bristle hairs on the leaves
- Acorns take 2 years to mature



Northern Red Oak Quercus rubra



Shingle Oak Quercus imbricaria







White Oaks

- Leaves have rounded lobes with NO bristle hair
- Acorns take 1 year to mature



White Oak Quercus alba







Bur Oak Quercus macrocarpa



Swamp White Oak Quercus bicolor



Other Alternates

Black Walnut Juglans nigra

- Pinnately compound leaves
- Large fruit
- Chambered pith



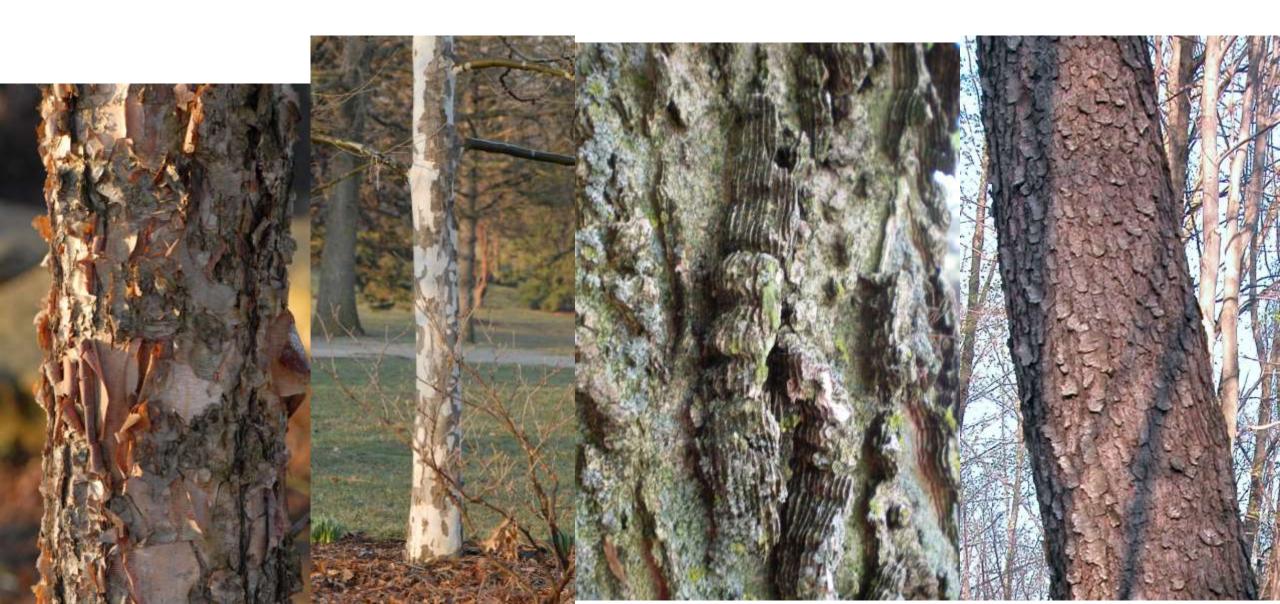
Other Alternates

Yellow-poplar Liriodendron tulipifera



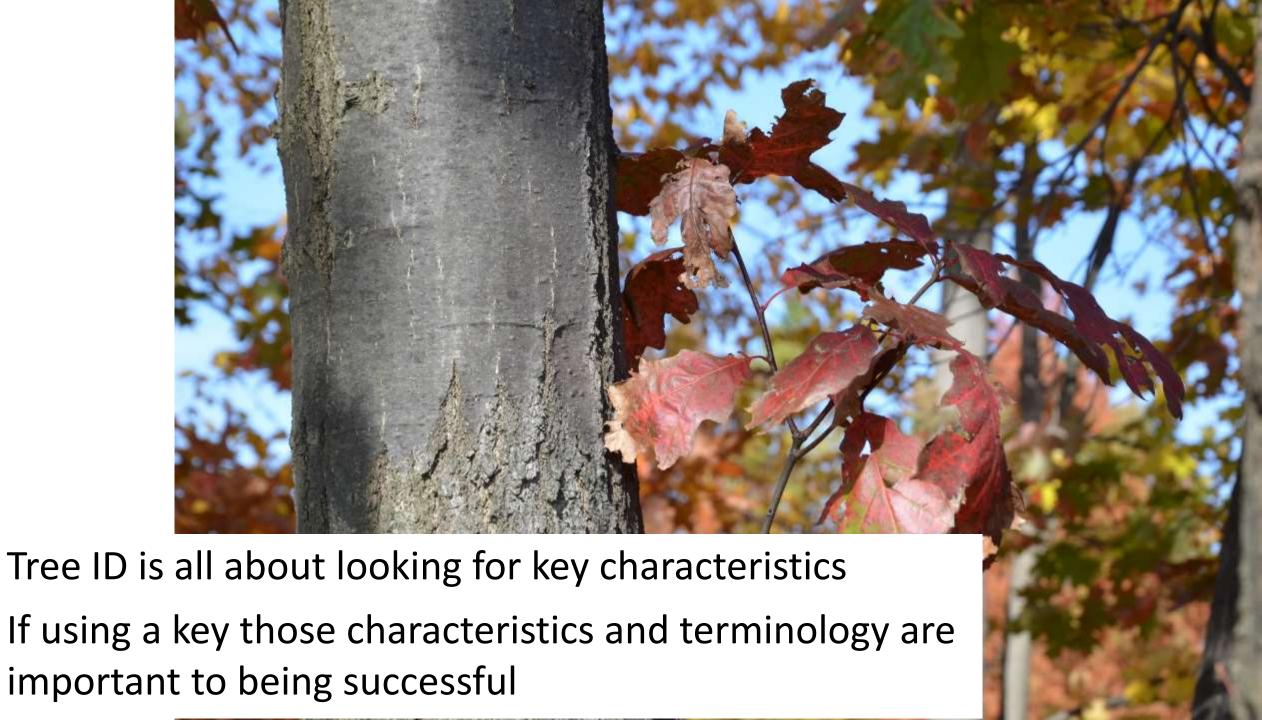


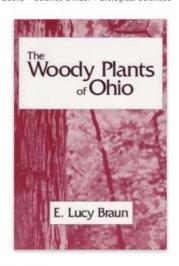
Other ID Characteristics - bark



Other ID Characteristics - thorns









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WOODY PLANTS OF OHIO: TREES, SHRUBS AND WOODY CLIMBERS NATIVE, Paperback - September 1, 1989

by E. LUCY BRAUN (Author)

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Trees, Shrubs, and Woody Climbers: Native, Naturalized, and Escaped

E. Lucy Braun



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"Not only Ohioans but plant lovers everywhere will welcome this splendid book prepared by one of America's foremost botanists and plant ecologists. . . . Of immeasurable value are Miss Braun's state-county maps charting separately the distribution of almost 350 indigenous species." — Journal of Forestry

The late E. Lucy Braun was Professor Emerita of Plant Ecology at the University of Cincinnati and author of several books, including The Monocotyledonnee: Cat-tails to Orchids, also published by OSU Press.



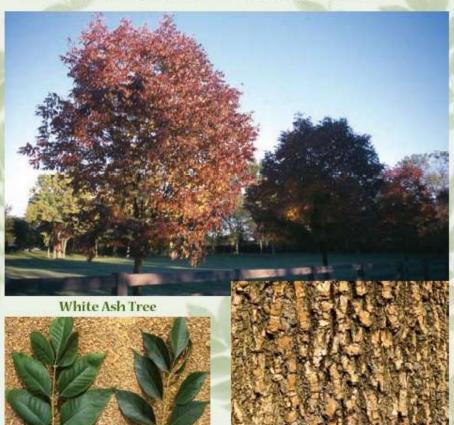
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Bulletin 924

ASH REPLACEMENTS FOR URBAN AND WOODLAND PLANTINGS



White Ash Bark White Ash Leaf



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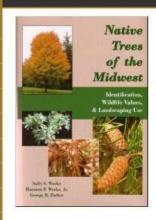
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Native Trees of the Midwest: Identification, Wildlife Values, and Landscaping Use (Hardback)



Sally S. Weeks (Author) Harmon P. Weeks, Jr. (Author) George R. Parker (Author)

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Book Description

Native Trees of the Midwest is a definitive guide to identifying trees in Indiana and surrounding states, written by three leading forestry experts. Descriptive text explains how to identify every species in any season and color photographs show all important characteristics. Not only does the book allow the user to identify trees and learn of their ecological and distributional attributes, but it also presents an evaluation of each species relative to its potential ornamental value for those interested in landscaping. Since tree species have diverse values to wildlife, an evaluation of wildlife uses is presented with a degree of detail available nowhere else. The revised and expanded second edition contains a chapter on introduced species that have become naturalized and invasive throughout the region. All accounts have been reviewed and modifications made when necessary to reflect changes in taxonomy, status, or wildlife uses. Keys have been modified to incorporate introduced species.

An interview with the authors is available on YouTube.

About the Author(s):

Sally S. Weeks

Sally Spurgeon Weeks was born and grew up on a dairy farm near Winamac, Indiana. She "found" trees later in life, almost by accident while a student at Purdue University: they became her passion. Charles Deam her posthumous tutor.





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