

## DECIDUOUS TREE DICHOTOMOUS KEY

1. Opposite branching (2)

1. Alternate branching (4)

2. Compound leaves (3)

2. Simple leaves: Maple species (see a-c below)

a. Leaf margins smooth, 5 lobes ..... **Sugar Maple** (*Acer saccharum*)

b. Leaf margins double-toothed, 3 to 5 lobes..... **Red Maple** (*Acer rubrum*)

c. Leaf margins single-toothed, 3 to 5 lobes, lobes separated by deep, angular openings.....**Silver Maple** (*Acer saccharinum*)

3. Three (rarely 5) leaflets..... **Box Elder** (*Acer negundo*)

3. Five to 11 leaflets: Ash species (see a-c below)

a. 9 to 11 leaflets, leaflets do not have petiole..... **Black Ash** (*Fraxinus nigra*)

b. 5 to 9 leaflets, leaflets have petiole, smile-shaped leaf scar extending up sides of new bud.....**White Ash** (*Fraxinus americana*)

c. 7 to 9 leaflets, leaflets have petiole, leaf scar ends at base of new bud.....  
**Green Ash** (*Fraxinus pennsylvanica*)

4. Compound leaves (5)

4. Simple leaves (8)

5. 7 or fewer (usually 5) leaflets, egg-shaped nut..... **Shagbark Hickory** (*Carya ovata*)

5. 7 or more leaflets (6)

6. Leaflets rounded ..... **Black Locust** (*Robinia pseudonacacia*)

6. Leaflets pointed (7)

7. Leaf 6 to 8 inches long ..... **Mountain Ash** (*Sorbus americana*)

7. Leaf 8 to 24 inches long ..... **Butternut** (*Juglans cinerea*),  
or **Black Walnut** (*Juglans nigra*)

8. Leaves lobed: Oak species (see a-f below)

a. Rounded lobes, 5 to 9 deep even lobes and sinuses, leaves hairless.....

**White Oak** (*Quercus alba*)

b. Rounded lobes, pair of deep sinuses near middle of leaf, hairy underside of leaves..... **Bur Oak** (*Quercus macrocarpa*)

c. Rounded lobes, leaf narrow at base and broad near middle, hairy underside of leaves.... **Swamp White Oak** (*Quercus bicolor*)

d. Pointed lobes, sinuses extend halfway to mid-vein, leaves hairless, dull green.... **Red Oak** (*Quercus rubra*)

e. Pointed lobes, deep sinuses extend 3/4 of the way to mid-vein, leaves hairless, bright green and shiny.... **Northern Pin Oak** (*Quercus ellipsoidalis*)

f. Pointed lobes, deep sinuses, young leaves hairy underneath, dark green and shiny, leathery.....**Black Oak** (*Quercus velutina*)



# Illinois Dichotomous Tree Guide

**Anna Lorraine Guthrie**



## **Illinois Dichotomous Tree Guide:**

**Illinois Trees** ,2013 This activity book is designed to supplement the information provided in the Illinois Trees poster from the Illinois Department of Natural Resources IDNR When using this book students will become familiar with identification characteristics of leaves page 2 and will be able to identify tree species by using a dichotomous key to these leaves page 5 Students will also become familiar with traits of the tree species and key vocabulary words **Trees of Illinois Field Guide** Stan Tekiela,2023-04-11 Learn to identify Illinois trees with this handy field guide organized by leaf type and attachment With this famous field guide by award winning author and naturalist Stan Tekiela you can make tree identification simple informative and productive There s no need to look through dozens of photos of trees that don t grow in Illinois Learn about 124 species found in the state every native tree plus common non natives organized by leaf type and attachment Just look at a tree s leaves then go to the correct section to learn what it is Fact filled information contains the particulars that you want to know while full page photographs provide the visual detail needed for accurate identification Book Features 124 species Every native tree plus common non natives Easy to use Thumb tabs show leaf type and attachment Compare feature Decide between look alikes Stan s Notes Naturalist tidbits and facts Professional photos Crisp stunning full page images This new edition includes updated photographs expanded information a Quick Compare section for leaves needles and silhouettes and even more of Stan s expert insights So grab the Trees of Illinois Field Guide for your next outing to help ensure that you positively identify the trees that you see **Illinois Forestwatch** Robert B. Blair,Mark W. Schwartz,1996 The Illinois Natural History Survey Reports ,1997 *Resources in Education* ,1993 **Illinois Wetlands** ,1998 **Choice** Julia Johnson,1976 The Illinois Steward ,2008 **Readers' Guide to Periodical Literature** Anna Lorraine Guthrie,1932 An author subject index to selected general interest periodicals of reference value in libraries **Trees of Nebraska** Michael Richard Kuhns,Dave Mooter,1992 **Transactions of the Illinois State Academy of Science** Illinois State Academy of Science,2003 Vol 1 covers the organizational meeting Springfield Dec 7 1907 and the first regular meeting Decatur Feb 22 1908 **Current Law Index** ,1990 **Resources in Education** ,1993 *Bulletin of Popular Information* Morton Arboretum,1948 Vol 1 includes a plan of the Arboretum Handbook of Computational Geometry J.R. Sack,J. Urrutia,1999-12-13 Computational Geometry is an area that provides solutions to geometric problems which arise in applications including Geographic Information Systems Robotics and Computer Graphics This Handbook provides an overview of key concepts and results in Computational Geometry It may serve as a reference and study guide to the field Not only the most advanced methods or solutions are described but also many alternate ways of looking at problems and how to solve them **Illinois Trees** Illinois. Department of Natural Resources,2020 *Plant Science Catalog* National Agricultural Library (U.S.),1958 **Rhodora** Benjamin Lincoln Robinson,Merritt Lyndon Fernald,1992 *Choice* Richard K. Gardner,Phyllis Grumm,1976 *Pioneer Forest* James Mark Guldin,Greg F. Iffrig,Susan

Flader, 2008 This collection of papers analyzes the Pioneer Forest a privately owned 150 000 acre working forest in the Missouri Ozarks on which the science and art of forest management has been practiced for more than 50 years The papers discuss how this half century of management has contributed to forest restoration and sustainability on the forest itself and through its example undergirded by a remarkable body of research throughout the Ozark region and beyond

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