





A GOLDEN NATURE GUIDE

#### **130 PAINTINGS IN COLOR**

# **I** REES

#### A GUIDE TO FAMILIAR AMERICAN TREES

by

HERBERT S. ZIM, Ph.D. College of Education, University of Illinois

and

ALEXANDER C. MARTIN, Ph.D. Senior Biologist, U.S. Fish and Wildlife Service

ILLUSTRATED BY



Sponsored by The Wildlife Management Institute

A GOLDEN NATURE GUIDE

SIMON AND SCHUSTER . NEW YORK

### FOREWORD

TREES brighten the countryside and soften the harsh lines of city streets. Each year they are increasing in importance and are being used in new ways. They are beautiful and majestic—the oldest and the largest of all living things. Because they are so interesting, a book on trees was planned from the very first in the Golden Nature Guide series. We are glad that book is now ready.

In preparing this primer of trees, we have enjoyed the continued help of many individuals and institutions, to whom our sincere thanks are due. Dorothea and Sy Barlowe, the artists, have given unstintingly of their time and talent to produce plates of unusual excellence. Leland Prater for the U.S. Forest Service has supplied invaluable photographs. Henry K. Svenson of the American Museum of Natural History, Harold N. Moldenke and the library and herbarium of the New York Botanical Garden, and William H. Durkin and Donald G. Huttleston of the Brooklyn Botanic Garden helped us over many rough spots, as did the National Herbarium in Washington, D. C.

> H. S. Z. A. C. M.



Copyright 1952 by Simon and Schuster, Inc., and Artists and Writers Guild, Inc. All Rights Reserved Including the Right of Reproduction in Whole or in Part in Any Form. Designed and Produced by The Sandpiper Press and Artists and Writers Guild, Inc. Printed in the U.S.A. by Western Printing and Lithographing Company Published by Simon and Schuster, Inc., Rockefeller Center, New York 20, N. Y. Published Simultaneously in Canada by the Musson Book Company, Ltd., Toronto

Poison ivy, 141 Pollen, 12\*, front endsheets Poplars, 78-80 Yellow-see Tuliptree Pussy Willow, 56 Range maps explained, 8 Redbud, 46\* Red-cedar, 38\* Redwood, 34\* Reference material, 16-17 Reforestation, 16 Resin, 23, 33 Rowan Tree, 146 Sassafras, 108\* Sequoia, 34\* Serviceberry, 61\* Shadbush, 61\* Shrub, defined, 7 Silkworms, 139 Sourgum, 41\* Sourwood, 76\* Spanish Moss, 93 Spruce: Bigcone, 31 Black, 28, 29\* Blue, 29 Canadian, 28 Eastern, 28 Engelmann, 28\*, 29 Norway, 29 Red, 28, 29\* Sitka, 29 Western, 29 White, 28, 29\* Sugar: maple, 116, 118-120 pine, 19\*, 21\* Sumac: Dwarf, 141\* Poison, 141\* Smooth, 140\* Staghorn, 140\*

Sweetbay, 48\*, 50

Sweetgum, 113\* Sycamore: American, 126\*, 127\* Arizona, 126\*, 127 California, 126\*, 127\* London Plane, 127 Oriental Plane, 126\*, 127

Tamarack, 30\* Trees: age of, 12 census of, 15 defined, 7 famous, 16 flowers of, 12 growing, 15 growth of, front endsheets\* key to, 9\*, parts of, front endsheets uses of, 12, back endsheets\* varieties of, 10, back endsheets Tuliptree, 109\*, 110 Tupelo, 41\* Turpentine, 23

Umbrella Tree, 48\*, 50

Wahoo (Winged Elm), 58\* Walnut: Black, 136\* English or Persian, 137 White, 137\* Wildlife, 12-13 Willow: Black, 54\* Crack, 56\* Glaucous, 56\* Peachleaf, 56\* Pussy, 56 Sandbar, 56\* Weeping, 55\* Witch Hazel, 113 Wood, 16, back endsheets

Yucca, 129

## 157