

2266

FORESTRY AND ITS CAREER OPPORTUNITIES

**The
American
Forestry
Series**

HARDY L. SHIRLEY

Dean and Professor of Forestry, College of Forestry
State University of New York
Syracuse, New York

McGRAW-HILL BOOK COMPANY

Forestry and Its Career Opportunities

HARDY L. SHIRLEY

*Dean and Professor of Forestry
State University of New York
College of Forestry
at Syracuse University*

FIRST EDITION

McGRAW-HILL BOOK COMPANY, INC.

1952 New York Toronto London

Preface

THE SECOND WORLD WAR marked the end of an epoch for citizens of the United States. No longer could the individual American stand four-square before humanity and declare himself to be unconcerned with the vicissitudes that beset the rest of mankind. No longer could he "look the whole world in the face because he owes not any man." He realized that for good or ill his own fate is inextricably interwoven with the fate of humanity throughout the world, that the bountiful resources his own country possesses and the prodigal use he has made of these in the past will not save him in the future. No open frontier lies to his west and no unexploited or unoccupied section of the world remains that he may colonize or exploit. Henceforth his economy and his welfare must depend upon the skill with which he develops and utilizes those resources which his own land can permanently supply. He may trade with the rest of mankind, but this trade must be on a mutually helpful basis.

The purpose of this book is to present a broad picture of forestry in relation to its historic development and its place in national and world economy. Technical forestry is treated lightly, as good books covering the several phases individually are available. This book is written to help beginning students to understand the many facets of forestry and to give them background for deciding if forestry is to be their life career. It should also prove helpful to vocational-guidance counselors and the general reader interested in the scope and magnitude of forestry.

The book has been developed from lecture notes and other materials used in a course in general forestry for freshmen at the State University of New York, College of Forestry.

The concept of forestry as developed through the programs of instruction offered at Syracuse is broad. It embraces the management of forest lands and the use of their products and services by mankind. No apology is made for such broad treatment in this book. Rather, the effort is made to explore the several special fields of forestry and their interrelationship.

Many people have made substantial contributions to this book. Most helpful have been the instructors who assisted the author in general for-

Contents

Preface	vii
1 The Meaning of Forestry	1
2 Forestry throughout the Ages	8
3 The Development of Forestry in the United States	17
4 Forest Regions	44
5 Protecting Forests	72
6 Forest Care and Use	96
7 Harvesting Timber Crops	120
8 Lumber Manufacture and Sale	133
9 Wood, Its Nature, and Uses	154
10 Wood Chemistry, Paper, and Plastics	177
11 Secondary Forest Products	195
12 Wildlife and Range Management	210
13 Forests and Recreation	235
14 Protecting Soil and Watersheds	249
15 The Business of Forestry	260
16 Social Benefits of Forestry	273
17 World and National Forest Resources	287
18 Recent Programs and Progress	310
19 Proposed Programs of Forestry	329
20 The Profession of Forestry	341
21 Employers of Foresters	354
22 Forest Employment by Regions and Fields	388
23 Education in Forestry	412
24 Research in Forestry	427
25 Administration in Forestry	440
26 Trends and Outlook in Forestry	456
Index	469