

a good, brief bibliography for general books in the several pertinent fields are found in the Appendices.

Because of the large number of individuals concerned in the study and the many methods used in attacking the problem, the data present an especially interesting and important contribution to the field of science education. The science teacher who directs adolescent boys and girls should find the monograph of aid in understanding the attitudes of many of his pupils toward their science work. Those teachers or administrators interested in curriculum construction for this age group also might well consider the possibilities suggested by the data.

DOROTHY V. PHIPPS,  
*Chicago Teachers College,*  
*Chicago, Illinois.*

McMINN, HOWARD E., AND MAINO, EVELYN. *An Illustrated Manual of Pacific Coast Trees.* University of California Press, Berkeley, California. xii + 409 pp. 2nd ed., 1937. \$3.50.

This book is more than a manual for the identification of the more commonly cultivated and native trees of California, Oregon, Washington, and British Columbia. It is a book that can be used with scientific accuracy by botanists or by nature lovers, as the authors have made the descriptions as nontechnical as possible without making a conscious effort to eliminate the more commonly used botanical terminology. The genera, under which are listed the species, are arranged alphabetically within the family and are based on vegetative characteristics for ease in using. The book is profusely illustrated.

Probably the most valuable part of the book for class or personal use is the short introduction on how to use the manual which includes adequate illustrated in-

formation on the names of the parts of a plant as well as a glossary of botanical terms.

In the back of the book is a 29 page list of trees recommended for various uses on the Pacific Coast, by H. W. Shepherd of the University of California, which includes information on alkali-tolerant trees, autumn-foliage-producing trees, avenue trees, border trees for home grounds, flowering trees, heat-tolerant trees, etc., with climatic recommendations and peculiarities.

This book is the prized possession of many prominent coast botanists.

CHARLES C. HERBST,  
*Beverly Hills High School,*  
*Beverly Hills, California*

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