

Claret Cup Hedgehog
Echinocereus coccineus



This highly variable mounding cactus has few to many green to blue-green stems. Growing in a crowded cluster about six inches (15 cm) tall, each stem reaches up to 2.5 inches (6 cm) across with nine to 10 ribs. Spines are pale gray to tan, up to 2.5 inches (6 cm) long, sometimes dense and sometimes sparse.



Usually growing in clusters about six inches (15 cm) tall, the stems are green to blue-green globes or cylinders, usually less than two inches (5 cm) across. Their surface is covered by tubercles, each bearing numerous white radial spines and fewer darker central spines.

Spinystars typically grow in clusters. To learn more about these formations, visit page 111.

Spinystar
Escobaria vivipara



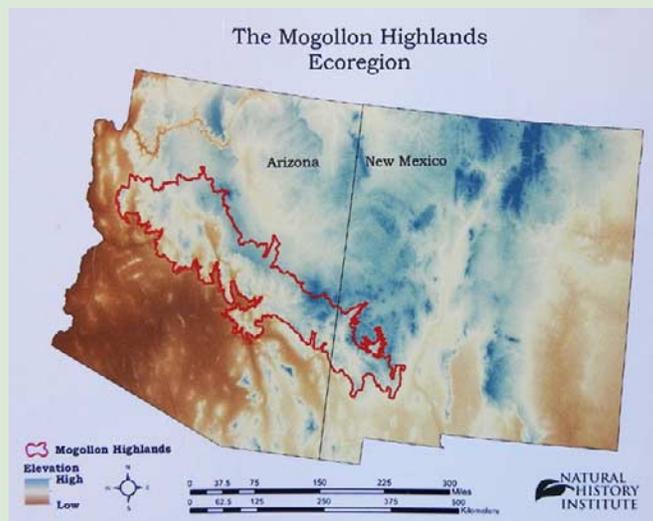
BOOK REVIEW *Ellen Dorn, University of Arizona Herbarium, Tucson; and Arizona Native Plant Society, Tucson Chapter*

Woody Plants of the Mogollon Highlands: A Field Guide and Botany Companion

by *Carl and Joan Tomoff* with design by Melina Walling and technical editing by Bob Ellis and Thomas L. Fleischer 2019. The Natural History Institute. 167 pages, \$20.00. Available at bookstores or directly from the Natural History Institute, Prescott, Arizona. To order please call (928) 863-3232 or email info@naturalhistoryinstitute.org

Woody Plants of the Mogollon Highlands, by Carl and Joan Tomoff, is an affordable and packable field guide to over eighty woody and succulent species of plants occurring in that very interesting region of northern Arizona and New Mexico known as the Mogollon Highlands. The book is well-printed and well-bound. The authors bring years of experience to this book, living and teaching in the Prescott area. Carl Tomoff is an emeritus professor of environmental studies at Prescott College. Joan Tomoff is a retired math

and science teacher and is an avid and accomplished plant photographer whose excellent photographs are used to illustrate this book.



A look into this well-organized book should begin with the page entitled “How to Use This Book.” Following an excellent description of the physical and biological features of the Mogollon Highlands, the authors present a section entitled “Basics of Plant Biology,” a feature I have never seen before in a botanical field guide.

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BOOK REVIEW **Woody Plants of the Mogollon Highlands** *continued*

That section consists of a very succinct discussion of many of the major aspects of plant biology, including descriptions of the major plant groups, the processes of photosynthesis and cellular respiration, plant growth and reproduction, and a number of other aspects of plant morphology and anatomy. It therefore adds a very informative perspective on how plants work and how they are studied which will be valuable to users without formal botanical training.

The authors identify and describe six separate plant communities in the Mogollon Highlands region — riparian deciduous woodlands, grasslands, interior chaparral, evergreen woodlands, Ponderosa pine forest, and mixed conifer forest. The discussions and illustrations of the individual plants identified are presented in the plant community section in which they most commonly occur. The illustrations are clear and beautifully presented so that many aspects of the individual plants are well-represented — flowers, fruits, leaves, stems, etc.

A particularly nice feature of this book is that some commonly confused plants are placed on opposite pages. For example, the cliffrose and the Apache plume are on opposite pages, as are the Engelmann prickly pear and the brownspine prickly pear. There is a group of pages on the willows, with a handy chart for comparison of individual characteristics.

Written in a clear style, this book is full of extremely useful information for anyone interested in learning more about the major native woody and succulent plants of the Mogollon Highlands as well as about many extremely interesting aspects of general plant science. In addition there are highlighted boxes on various topics throughout the text which are both informative and enjoyable to read.

This book will be a welcome addition to the field guide library of anyone with an interest in and love of Arizona native plants.



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