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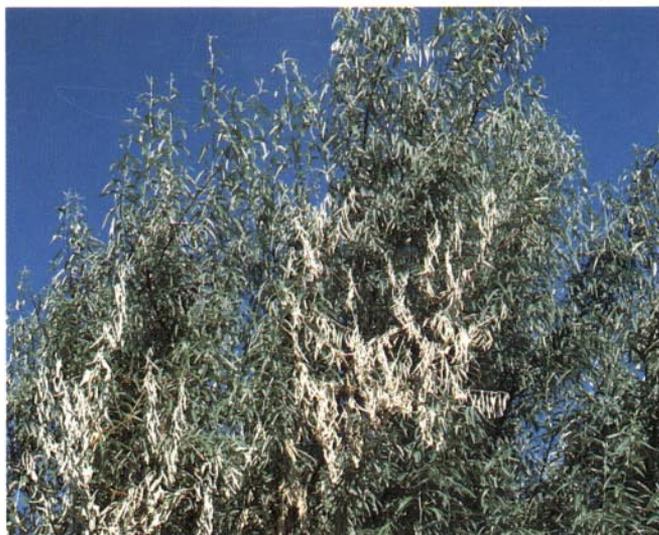
**General Technical
Report RM-129**



Diseases of Trees in the Great Plains

Jerry W. Riffle and Glenn W. Peterson

Technical Coordinators



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Abstract

Hosts, distribution, symptoms and signs, disease cycle, and control measures are described for 46 hardwood and 15 conifer diseases. Diseases in which abiotic agents are contributory factors also are described. Color and black-and-white illustrations that stress diagnosis and control are provided. A glossary of technical terms and indexes to hosts, pathogens, and insect vectors also are included.

Keywords: Tree diseases, forest pathology, Great Plains, windbreaks

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Preface

This technical report provides a guide to assist arborists, land owners, pest management specialists, foresters, and plant pathologists in the diagnosis and control of tree diseases encountered in the Great Plains. It contains 64 articles on tree diseases prepared by 31 authors, and emphasizes disease situations as observed in the 10 states of the Great Plains.

The need for such a Handbook for the Great Plains has been recognized for some time.

During its 1980 meeting the Pest Management Task Force of the Forestry Committee, Great Plains Agricultural Council requested that the Forestry Committee "support the publication of a 'Tree Disease Handbook for the Great Plains', by the Task Force, and assist the Task Force in obtaining the necessary funding." The request was approved.

During the Task Force's 1981 meeting a working group was formed to prepare a prospectus for the Handbook. The working group members, Dr. Edward M. Sharon,

Mr. James A. Walla, Dr. Mark O. Harrell, and Dr. Jerry W. Riffle, selected specific diseases for inclusion in the Handbook, selected potential authors for each article, and determined the format for articles to emphasize diagnosis, biology, damage, and control of diseases.

In 1982 the Pest Management Task Force agreed that Dr. Riffle would serve as coordinator of the Handbook, with Dr. Glenn Peterson as co-coordinator. Dr. Riffle contacted all potential contributors in May 1982, and their response was excellent; 31 persons agreed to author or co-author articles on 64 diseases.

Funding for the publication of the Handbook was resolved in 1985 when it was proposed that the Handbook be published as a General Technical Report by the USDA Forest Service, Rocky Mountain Forest and Range Experiment Station. This proposal was approved by the Executive Committee of the Forestry Committee of the Great Plains Agricultural Council.

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