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NATIVE GRASSLAND ECOSYSTEMS EAST OF THE ROCKY MOUNTAINS IN NORTH AMERICA: A PRELIMINARY BIBLIOGRAPHY

Richard H. Pemble

Department of Biology
Moorhead State College
Moorhead, Minnesota 56560

Ronald L. Stuckey

Department of Botany
The Ohio State University
Columbus, Ohio 43210

Lynn Edward Elfner

Office of Budget and Management
State of Ohio
Columbus, Ohio 43215

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Abstract. At the time of European settlement native grassland occupied most of the central portion of the North American continent. With settlement much of the original grassland disappeared, either under the plow or as the result of intensive grazing by domestic livestock. Only recently have major efforts been made to preserve a fraction of the remaining native grasslands. In those areas where little or no original grassland remains restoration is the only means by which examples approaching the original ecosystems can be provided.

The restoration and/or management of native grassland ecosystems must be approached from an ecosystem rather than an autecological, population, or community only viewpoint. The development of a total ecosystem picture requires the synthesis of results from numerous and diverse studies. Ecosystem bibliographies, i.e. comprehensive lists of references which cover particular ecosystem types and their components, can provide a primary synthesis of information. This bibliography is an initial attempt to provide such a list for native grassland, grassland-shrub combination, and grassland-forest ecotone ecosystems east of the Rocky Mountains in North America. The list contains nearly 7000 citations ranging from descriptive narratives of early travelers to the complex modelling studies of the U. S. IBP Grassland Biome Project. Arrangement is alphabetical by author.

Key Words: Native grassland; grassland ecosystems; grassland management; grassland restoration; North American grasslands; grassland ecology; grassland bibliography; ecosystem bibliography; prairie.

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INTRODUCTION

At the time of European settlement native grassland occupied most of the central portion of the North American continent. It stretched from the Rocky Mountains across the Great Plains to the deciduous forests of the eastern United States and ranged north from the coast of Texas to the boreal forests of Canada. This vast sea of grass was in reality a mosaic of diverse ecosystem types each supporting a complex assemblage of plant and animal species. With settlement much of this natural diversity disappeared. An economy developed based almost entirely on the elimination or intensive manipulation of the native grasslands. Most of what was not plowed and planted was fenced and heavily grazed by domestic livestock. In most cases the inherent values of grasslands in their original condition were ignored and few attempts were made to preserve significant examples.

Only recently, and unfortunately too late for most of the eastern grasslands, have major efforts been made to preserve a small fraction of these original ecosystems. The Nature Conservancy is sponsoring a national survey of native grasslands and has purchased a number of representative grassland tracts. Efforts are also underway to secure the establishment of one or more national prairie parks. While preservation efforts should have top priority, the management of tracts which are already preserved under a variety of ownerships, in a manner which will insure the maintenance of their original character, is also important. In those areas where little or no original grassland remains restoration is the only means by which examples approaching the original ecosystems can be provided.

The restoration and/or management of native grassland ecosystems must be approached from an ecosystem rather than an autecological, population, or community only viewpoint. However, even when we rocognize the desirability of the ecosystem approach practical limitations in terms of time and knowledge restrict most of us to the study of only a few components. The development of a total ecosystem picture requires the synthesis of results from numerous and diverse studies many of which are unknown to researchers outside a specific field. The current "information explosion" makes it difficult to keep abreast in a single field and impossible to keep up with even a cursory survey of the literature in other fields of specialization. Ecosystem bibliographies, i.e. comprehensive lists of references which cover particular ecosystem types and their components, can provide a primary synthesis of information. One of the few attempts to compile such a bibliography is that of Blanchet et al. (1973) who have provided a preliminary list of references for shortgrass and mixed-grass prairie ecosystems as part of the U. S. International Biological Program Grassland Biome Project. While their bibliography is most valuable for shortgrass and mixed-grass prairies no similar bibliography exists which covers the variety of other grassland ecosystem types

which make up the grassland biome in North America. This bibliography is an initial attempt to satisfy such a need.

In compiling the list all citations we have found which are related to native grassland, grassland-shrub combination, or grassland-forest ecotone ecosystems east of the Rocky Mountains in North America have been included. Some references have also been included which discuss selected methods or principles even though the study was conducted outside the geographic area of the bibliography. In its present form the bibliography contains nearly 7000 citations ranging from descriptive narratives of early travelers to the complex ecosystem modelling studies of the U. S. IBP Grassland Biome Project. It is by no means complete. Certain ecosystems are more completely covered than others as are certain components of particular ecosystems. Coverage can be expanded if authors or others aware of relevant papers which have been omitted will supply reprints or exact bibliographical data for future inclusion.

The bibliography is arranged alphabetically according to the name of the first author. Additions which were made after the first draft was typed have been placed at the end of each section. The bibliography has not been indexed or annotated. A future edition should include annotations, perhaps abstracts, and a comprehensive index. It should be noted that Blanchet et al. (1973) have included abstracts and a comprehensive index for their bibliography on shortgrass and mixed-grass prairie ecosystems. The same is true for Singh's (1972, 1974) U. S. IBP Grassland Biome bibliographies.

In the past few years a tremendous amount of research on grassland ecosystems has been conducted as part of the U. S. IBP Grassland Biome Project headquartered at Colorado State University. The results of much of this work are available only in IBP Grassland Biome publications, most of which are listed in this bibliography. U. S. IBP Grassland Biome publications are available on interlibrary loan from the library at Colorado State University, Fort Collins.

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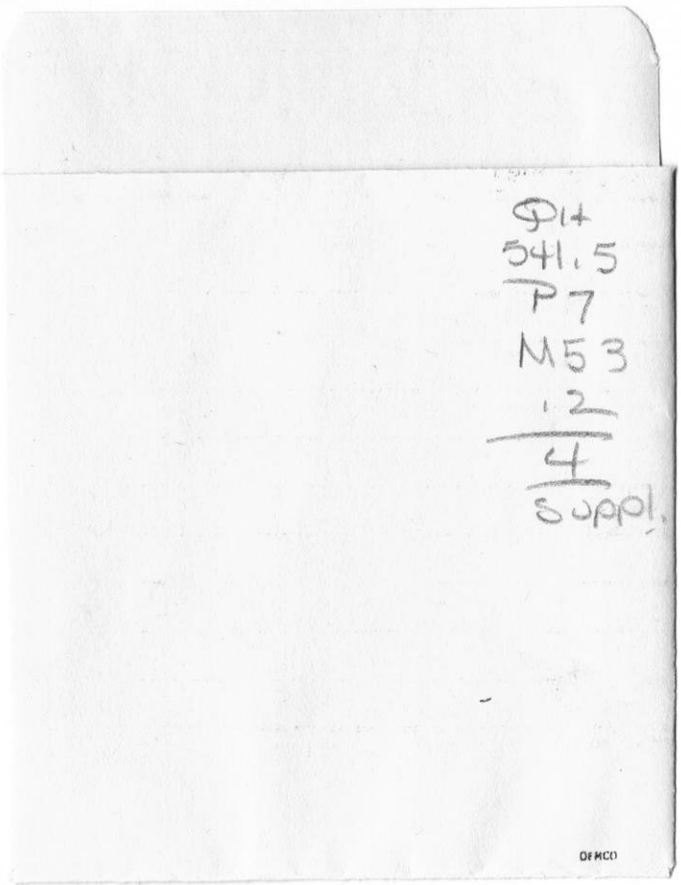
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