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Arkansas Field Botany (Flora and Vegetation) Bibliography (1988-2000)

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Abstract

The floristic richness and diversity of vegetation in Arkansas continues to require and stimulate a growing body of taxonomic and ecological research publications. Peck and Peck (1988) listed 766 references, including those of the two prior lists. Since then we have gathered 417 additional references. The total list now contains 1,183 references, with 70% prepared or published since 1970. This update is provided for four reasons: 1) to compile a comprehensive source to direct and facilitate future studies, 2) to provide easier access to many reports not normally located in electronic databases, 3) to improve communications with botanists outside Arkansas, and 4) to support the ongoing and active efforts of those involved in the production of a manual to the Arkansas Vascular Flora and a book-length treatment of the vegetation of Arkansas. Future plans include placing the entire list on the Internet and developing of a means of updating the list every year.

Introduction

The floristic richness and diversity of vegetation in Arkansas continues to require and stimulate a growing body of taxonomic and ecological research publications. Access to the scattered literature on Arkansas field botany was improved with the publication of three prior lists. Buchholz and Palmer (1926) listed 63 taxonomic studies. Dale (1963) listed 102 vegetation studies. Peck and Peck (1988) listed 766 references, including those of the two prior lists. They noted that there were many significant references in state and federal agency files that remain unpublished, undistributed, and generally unknown. With the current and on-going efforts to summarize the flora and vegetation of Arkansas in book-length treatments, it was deemed appropriate and timely to provide an update to Peck and Peck (1988) and to make these citations available through the same venue.

Methods

We employed much the same methods and inclusion criteria as that of Peck and Peck (1988) to gather citations of additional references. Again, we were particularly interested in any reference that documented or aided in the interpretation of the flora and vegetation of Arkansas. We included references that were essential to comprehend the natural heritage of Arkansas, even if derived from surrounding states. Such works often directly refer to collections made in Arkansas, the disjunct nature of Arkansas populations, or the composition of the vegetation. We took the position that it was better to be on the side of completeness, than to not include and lose a reference that might be needed in the future. The list was checked against the electronic databases of plant literature at Kew Garden and Missouri Botanical

Garden, but no additional references were found to add to what was already gathered. Standard abbreviations for biological references were employed unless a full spelling was required to insure that a general reader might accurately locate a reference.

Results and Discussion

Our efforts located an additional 417 references provided below. Inspection of the updates and the entire list demonstrates that there was a significant increase in field botany research in Arkansas that started in the 1970s, continued into the 1980s, and was sustained through the year 2000. This is a direct result of federal and state funding of research, environmental impact statements, mandated recovery of endangered species, and general biological contract work. The lead agencies funding this work includes the Arkansas Natural Heritage Commission, Arkansas Forestry Commission, and the two federal forests in Arkansas. The work was facilitated by the Arkansas Field Office of The Nature Conservancy, Arkansas Native Plant Society, and the Arkansas Academy of Science through its Journal. Academics and their graduate students continued to participate in most agency projects, a cooperation that has produced a prodigious modern body of work in the last 30 years. A total list of 1,183 references was compiled, with 70% of the references dated 1970 or more recently.

Future efforts will be directed toward placing the entire list of 1,183 reference citations on the Internet and developing a faster means of updating the list, perhaps every year. The authors welcome any reader to submit overlooked references and future publications for inclusion in subsequent updates and lists.

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