

1988

## Bibliographic Summary of Arkansas Field Botany

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### Recommended Citation

Peck, James H. and Peck, Carol J. (1988) "Bibliographic Summary of Arkansas Field Botany," *Journal of the Arkansas Academy of Science*: Vol. 42 , Article 20.

Available at: <http://scholarworks.uark.edu/jaas/vol42/iss1/20>

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# A BIBLIOGRAPHIC SUMMARY OF ARKANSAS FIELD BOTANY

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## ABSTRACT

Over 750 references, compiled over the past five years, are presented on floristics, taxonomy, autecology, synecology, species biology, habitat analysis, impact analysis, paleoenvironment, phytogeography, and history of field botany in Arkansas. This bibliography is reported to facilitate efforts to document and interpret the flora, the vegetation, and the natural heritage of Arkansas and to encourage others to participate in that collective effort.

## INTRODUCTION

Arkansas has a flora and vegetation that is characterized by richness and diversity, reflecting its location in the Mid-South, its varied and rugged topography, and the uninterrupted occupation of habitats during the Pleistocene and Holocene. Efforts to describe, inventory, and interpret the flora and vegetation have resulted in the compilation of an impressive body of literature. Access to plant literature was made difficult by the lack of a recent and relatively comprehensive bibliographic compilation. The last bibliography was prepared by Dale (1963) who added 102 references of vegetation studies to an earlier list of 63 taxonomic papers reported by Buchholz and Palmer (1926). According to our list, approximately 60% of the literature documenting or interpreting field botany in Arkansas was reported after 1963. Much of this recent literature is in the form of status reports, government documents, agency reports, and contract reports. In contrast to references in standard journals, this newer body of knowledge is deposited rather than disseminated, abstracted, and widely circulated, and thus, it is less well known and is cited infrequently.

The problem of access to an ever increasing body of literature on field botany is not a problem restricted to Arkansas. Increased efforts to organize natural heritage information resulted in the preparation of bibliographies on plant studies at the national, regional, and state level. On the national level, Gunn (1956) provided access to the major works on each state flora. On the regional level, Duncan (1953), Egler (1961) and Wood (1983) provided access to the regional literature of the southeastern United States. Summaries of literature for other states in the Mid-south and Northcentral United States have also been prepared and reported: Illinois (Risser, 1984), Iowa (Eilers, 1975; Peck and Roosa, 1983; Peck and Smart, 1985; Roosa and Peck, 1986), Kentucky (Browne, 1965; Davies, 1953; Fuller, 1979), Louisiana (Ewan, 1967; MacRoberts, 1984; Sundell, 1983), Missouri (Dwyer, 1970; Weher and Raveill, 1986), and Tennessee (Andre, 1971; Bates, 1985; Corgan, 1977). Workers in these states found that when access to the literature of their state and that of adjacent states is conveniently summarized, interpretations of flora and vegetation problems common to their region are much easier to compare and to assess properly.

Consequently, we prepared this bibliographic summary of 766 references to Arkansas field botanical literature for four reasons: to compile a comprehensive bibliography, to facilitate access to those literature resources, to communicate within and outside Arkansas, and to enhance or stimulate future studies on field botany projects in Arkansas. We welcome notification of references we overlooked and information of new reports, in that we intend to keep the list current, and report update lists as needed.

## METHODS

The bibliography includes references cited by Buchholz and Palmer (1926) and Dale (1963) to provide a complete listing. However, as the scope of our search was broader than those two earlier compilations, we also added references reported before 1963. We included any reference on the flora of vegetation of Arkansas, including pertinent information of plant taxonomy, plant ecology (autecology and

synecology), floristics, phytogeography, palynology, dendrochronology, vegetation management, status reports on rare species, environmental impact statements of significant tracts of natural heritage value, and literature essential to the proper interpretation of Arkansas' botanical natural heritage, such as general works on soil, climate, and geography or on the history of the exploration and study of the natural resources of Arkansas by early naturalists. Some studies conducted outside Arkansas are included if they are of particular importance to the proper interpretation of Arkansas' natural heritage, particularly if these works were excluded included in recent discussions.

References that primarily discuss phytoplankton, agronomic crops, weed control, pest management, or tree plantations were excluded. Rather than cite each soil survey for the 75 counties, a general reference to their existence was noted to direct the reader to the government documents section of the library. Similarly, over 100 reports on the generic flora of the southeastern United States were recently indexed (Wood, 1983), and only a few of these were included. Monographic works on wide ranging taxa were generally not included unless Arkansas material was particularly rare and of national importance. General monographs that include Arkansas taxa are well enough summarized by Smith (1968).

Eventually, any list becomes a matter of personal choice; we included any paper which we deemed to contain sufficient merit that its exclusion might be criticized. Early drafts of the list was submitted for comment to Drs. Ed Dale and Ed Smith, University of Arkansas; Dr. Leon Richards, Arkansas State University; Dr. Gary Tucker, Arkansas Tech University; Dr. Eric Sundell, University of Arkansas at Monticello; Drs. Donald Culwell and Robert Wright, University of Central Arkansas; Dr. Henry Robison, Southern Arkansas University, and to Thomas Foti, Steve Orzell, William Shepherd, and Kenneth Smith, Arkansas Natural Heritage Commission. Their contributions added measurably to our list. Several students helped to clerically update the list, including Mark Schweder, Deborah Prince, and Katie Golden.

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