

Three Decades of Research at Hutcheson Memorial Forest, New Jersey (USA)

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Abstract. Three decades of research at the William L. Hutcheson Memorial Forest have resulted in 123 published articles, 66 doctoral and master's theses, and 73 published abstracts. References for these are presented.

The William L. Hutcheson Memorial Forest in Franklin Township, New Jersey, was established in 1955 with two primary objectives: (1) to maintain the old woods in their natural state, and (2) to study the natural ecological and evolutionary processes present.

Because of this focus on research, the tract has become one of the most intensively studied ecological areas in the world. Some 25-40 projects are ongoing at any given time, with a priority on long-term research, for which a protected permanent tract of land is uniquely suited. Most studies have been done by Rutgers University faculty and students, although investigators from institutions across the eastern United States and beyond have been welcomed and have contributed significantly.

This bibliography updates Small's (1973) list of publications, which included 58 articles and 22 abstracts from 1952 to 1973.

Studies done entirely or in part at Hutcheson Memorial Forest to date have resulted in 123 published articles. Two of the journals in which articles most frequently appear are leading North American journals: *Ecology* (18 articles) and *Bulletin of the Torrey Botanical Club* (15 articles). In addition, 31 articles have been published in the *William L. Hutcheson Memorial Forest Bulletin*.

Approximately 62% of the articles have focused on the old woods, with the remaining articles concentrated on the fields of various ages. While most of the articles are conceptual in approach, the primary objects of study in the 122 articles have been as follows: ecosystem or plant community (39), plant succession (9), plant populations (12), algae (2), mammals (4), birds (18), amphibians (1), beetles (10), moths and butterflies (8), other arthropods (6), fire (2), climate (2), soil and nutrients (7), and bibliography (2).

Sixty-six Rutgers University students have done all or part of their graduate thesis research at Hutcheson Memorial Forest. Forty received the master's degree and 26 the Ph.D.

Presentations of research at professional meetings have resulted in 73 published abstracts.

The total research effort listed below has been carried out by 118 scientists. Additional research which is not tabulated here includes undergraduate student research projects, studies which did not result in publication or thesis, and ongoing research projects.

The William L. Hutcheson Memorial Forest may be unique for a natural ecological area, because the deed stipulates that the area must be studied. The linkage of protection and research has been enormously synergistic over the past three decades, and is a model to recommend.

I. Published Research Articles

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