DEPARTMENT OF FORESTRY

BIBLIOGRAPHY

OF RESEARCH AT

ROBINSON FOREST

1926–2000

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30 April 2000

Pictured at the far left:
Robinson Forest's first
Forest Manager,
C.H. Borrage, 1925.

Kentucky Agricultural Experiment Station
University of Kentucky • College of Agriculture
Department of Forestry • Lexington, Kentucky 40546
In 1923 the E.O. Robinson Mountain Fund conveyed the Robinson Forest to the University of Kentucky in trust. The land was conveyed to the University with “experimental work and teaching in forestry and the practical demonstration of reforestation” as the major intended uses. The Robinson Forest, and more specifically the main block of the Robinson Forest, is a resource that has generated a number of publications and efforts that support this intended purpose. The main block is the largest contiguous tract of the seven separate tracts conveyed and is located in the Kentucky counties of Breathitt and Knott.

This bibliography lists publications in chronological order that have been generated from projects covering a wide variety of forestry and related sciences. The projects were completed by and in cooperation with a number of departments within the University of Kentucky, as well as many other universities, agencies, and individuals. It covers a 74-year time period from the first listed publication in 1926 up to April 2000. While attempts have been made to include all publications associated with Robinson Forest, it is likely that some have been overlooked. This is a work in progress, so any identified omissions will be included in subsequent bibliographies. Apologies are hereby extended to the author(s) of any such publication.

Most of the citations listed that are prior to 1990 were taken from the “Petition to Declare an Area Unsuitable for Surface Coal Mining” for Robinson Forest, dated 28 February 1990. The efforts of those individuals, especially Paul Kalisz, are much appreciated and hereby acknowledged. The Robinson Forest Committee members, Randall Kolka, Michael Lacki, Robert Muller, Mathew Smidt, and Jeffrey Stringer, and various Robinson Forest researchers provided additional citations and input. Jackie Allen and Leslie Napier, staff assistants in the Department of Forestry, provided clerical assistance.

**Overview**

1956 Barbour, R.W. A preliminary list of the summer birds of Clemons Fork, Breathitt County, Kentucky. The Kentucky Warbler, 32:3-11.
1976 Carpenter, S.B. Stand structure fifty years after logging and fire in the Cumberland Plateau of eastern Kentucky. Castanea, 41:325-337.


1990 Muller, R.N. Succession and forest recovery following harvest in the central hardwood forests of Kentucky. Transactions of the Kentucky Academy of Science, 51:36-42.


**M.S. THESISSES**

1968 Schafer, J.P. Summer home range and activity of radioactively-tagged and dye-tagged creek chubs, *Semotilus atromaculatus*.


1976 Shearer, M.T. Distribution of nitrate-nitrogen in forest soils following ammonium nitrate fertilization.

1976 Yeiser, J.L. Human responses to silvicultural practices.

1977 Dula, S.E. Photosynthetic efficiency studies of American sycamore.

1977 Hanson, C.T. Relationship of soil and site characteristics to soil moisture regimes in a forested watershed.

1978 Eigl, R.A. Site quality of yellow-poplar in relation to soil and topography in eastern Kentucky.


1981 Honeycutt, C.W. Growth of white oak in relation to soil and site properties in eastern Kentucky.

1981 Leopold, D.J. The natural history and parasitism of *Pyrularia puber* Michx.

1982 Moriarty, J.J. Long-term effects of timber stand improvement on snag and natural cavity characteristics and cavity use by vertebrates in a mixed mesophytic forest.

1982 Smith, W.D. The physical and hydrological properties of soils on Field Branch watershed.

1984 Albright, M.C. Flood peak frequencies and magnitudes on three small forested watersheds in eastern Kentucky.

1985 Dunn, J.P. Ecological interactions between Argulus bilineatus Weber and stressed white oak (Quercus alba L.).


1986 Grootsch, P.L. Effects of an improvement cut on a bird community in a central Appalachian hardwood stand.


1987 Pasis, R.C. Mortality, dispersal, and habitat use of resident and translocated white-tailed deer does on the Cumberland Plateau of eastern Kentucky.

1987 Tiaf, Syafrin. A characterization study of precipitation events at Robinson Forest.

1988 Brooks, L.T. Precipitation and streamwater quality as they relate to nutrient cycling in a hardwood forest in eastern Kentucky.

1988 Dotson, D.B. Earthworm species assemblages in undisturbed forest soils on Robinson Forest.

1989 Chambers, C.L. Phenological patterns of an east Kentucky deciduous forest.


1989 Surardo, B. Effects of forest harvesting on selected stormflow parameters on three small forested watersheds in eastern Kentucky.

1990 Liu, Yan. Growth and productivity of eastern Kentucky's forests.


1997 Hurst, Tracy E. Foraging area, habitat use, population estimates, and food habits of Rafinesque's big-eared bat in southeastern Kentucky.

1997 Swenk, David W. An analysis of the effects on hillslope hydrologic processes by forest roads in eastern Kentucky.

1998 Hutchinson, Jeffrey T. Summer roost site selection of red bats in mixed mesophytic forests.

1998 Turner, Heather Nicole. Digital evaluation model (DEM), generation and analysis techniques – a viewshed study in a forest environment.

1999 Campbell, Raymond D. Performance evaluation of satellite real-time DGPS in a hardwood forest.

**PH.D. DISSERTATIONS**

1982 Nuckols, J.R. The influence of atmospheric nitrogen influx upon the stream nitrogen profile of two relatively undisturbed watersheds in the Cumberland Plateau of the eastern United States.

1983 Russin, J.S. Sporulation and dissemination of cytoplasmically hypovirulent isolates of *Endothia parasitica*.


1984 Phillippi, M.A. Benthic macroinvertebrate community structure in a fourth-order stream system with a nitrogen-enriched tributary.


1991 MacDonald, Robert Charles. Production, transport, and metabolism of ethanol in eastern cottonwood (*Populus deltoides* Bartr.).

1992 Cremeans, Darryl W. Aspect and slope position effects on moisture regime and properties of forest soils in eastern Kentucky.