

AGRICULTURAL EXPERIMENT STATION UNIVERSITY OF KENTUCKY • COLLEGE OF AGRICULTURE

# DEPARTMENT OF FORESTRY BIBLIOGRAPHY OF RESEARCH AT ROBBINSON FOREST

1926-2000

Prepared by

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

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#### OVERVIEW

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 74year 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.

### PUBLICATIONS

- 1926 Bishop, S.C. Records of some amphibians and reptiles from Kentucky. Copeia, 152:118-120.
- 1956 Barbour, R.W. A preliminary list of the summer birds of Clemons Fork, Breathitt County, Kentucky. The Kentucky Warbler, 32:3-11.
- 1956 Barbour, R.W. Additional record of the coal skink, *Eumeces* anthracinus (Baird) in Kentucky. Herpetologica, 12:230.
- 1957 Barbour, R.W. Some additional mammal records from Kentucky. Journal of Mammalogy, 37:110-111.
- 1959 Bush, F.M. The herpetofauna of Clemons Fork, Breathitt County, Kentucky. Transactions of the Kentucky Academy of Sciences, 20:11-18.
- 1961 Kuehne, R.A., and R.M. Bailey. Stream capture and the distribution of the percid fish, *Etheostoma sagitta*, with geologic and taxonomic considerations. Copeia, 1:1-18.
- 1962 Kuehne, R.A. A classification of streams, illustrated by fish distribution in an eastern Kentucky creek. Ecology, 43:608-614.
- 1962 Kuehne, R.A. Annotated checklist of fish from Clemons Fork, Breathitt County, Kentucky. Transactions of the Kentucky Academy of Sciences, 23:22-24.
- 1966 Barbour, R.W., and S. Hardjassmita. A preliminary list of the mammals of Robinson Forest, Breathitt County, Kentucky. Transactions of the Kentucky Academy of Sciences, 27:85-89.
- 1969 Barbour, R.W., J.W. Hardin, J.P. Schafer, and M.J. Harvey. Home range, movements, and activity of the dusky salamander, *Desmognathus fuscus*. Copeia, 2:293-297.
- 1969 Barbour, R.W., J.W. Hardin, and J.P. Schafer. Observations on the activity of a seal salamander, *Desmognathus monticola*. Herpetologica, 25:238-244.

- 1969 Barbour, R.W., M.J. Harvey, and J.W. Hardin. Home range, movements, and activity of the eastern worm snake, *Carphophis* amoenus amoenus. Ecology, 50:470-475.
- 1969 Hardin, J.W., J.P. Schafer, and R.W. Barbour. Observations on the activity of a seal salamander, *Desmognathus monticola*. Herpetologica, 25:150-151.
- 1971 Bailey, H.H., and P.E. Avers. Classification and composition of soils from mountain colluvium in eastern Kentucky and their importance to forestry. Soil Science, 111:244-251.
- 1971 Tang, R.C., and S.F. Adams. Moduli of rigidity and torsional strength of scarlet oak related to moisture content. Wood Science, 3:238-244.
- 1973 Lotrich, V.A. Growth, production, and community composition of fishes inhabiting a first-, second-, and third-order stream of eastern Kentucky. Ecological Monograph, 43:377-397.
- 1973 Richards, D.B. Hardwood lumber yields by various simulated sawing methods. Forest Products Journal, 23:50-58.
- 1975 Hsu, N.N., and R.C. Tang. Distortion and internal stress of lumber due to anisotropic shrinkage. Wood Science, 7:298-307.
- 1975 Hsu, N.N., and R.C. Tang. Internal stress in logs due to anisotropic shrinkage. Wood Science, 7:43-51.
- 1975 Carpenter, S.B., and N.D. Smith. Stomatal distribution and size in southern Appalachian hardwoods. Canadian Journal of Botany, 53:1153-1156.
- 1976 Carpenter, S.B. Stand structure fifty years after logging and fire in the Cumberland Plateau of eastern Kentucky. Castanea, 41:325-337.
- 1976 Carpenter, S.B., and R.L. Ramsey. Trees and shrubs of Robinson Forest, Breathitt County, Kentucky. Castanea, 41:277-282.

- 1976 Graves, D.H., G.B. Coltharp, and M.C. Hammetter. Utilization of remote sensing techniques to detect land use effects on wildland water quality. Proceedings, 42nd Annual Meeting, American Society of Photogrammetry, 368-372.
- 1976 Hutchins, R.B., R.L. Blevins, J.D. Hill, and E.H. White. Influence of soils and microclimate on vegetation of forested slopes in eastern Kentucky. Soil Science, 121:234-241.
- 1977 Richards, D.B. Value yield from simulated hardwood log sawing. Forest Products Journal, 27:47-50.
- 1977 Shearer, M.T., G.B. Coltharp, and R.F. Wittwer. The quality of water received as precipitation on a forested watershed in eastern Kentucky. Transactions of the Kentucky Academy of Sciences, 38:111-115.
- 1977 Wright, G.A. Dispersal and survival of translocated raccoons in Kentucky. Proceedings, Southeast Association of Fish and Wildlife Agencies, 31:285-294.
- 1978 Allaire, P.N. Effects on avian populations adjacent to an active strip mine. pp. 232-240. IN: D.E. Samuel, et al., eds. Surface Mining and Fish and Wildlife in the Eastern United States, FWS/OBS-78/81, Washington, D.C.
- 1978 Coltharp, G.B., M.T. Shearer, E.P. Springer, and R.W. Wittwer. Influences of nitrogen fertilization on the quality and quantity of streamflow from a forested watershed. Research Report No. 115, University of Kentucky Water Resources Research Institute, Lexington, Kentucky.
- 1978 Graves, D.H., and M.C. Hammetter. Earth resources by remote sensing – a NASA satellite program. Proceedings, Kentucky Land Surveyors Conference.
- 1978 Immel, M.J., R.L. Ramsey, and S.B. Carpenter. Comparative growth responses of northern red oak and chestnut oak to varying photoperiods. Forest Science, 24:554-560.
- 1978 Jordan, D.C., D.H. Graves, and M.C. Hammetter. Use of manual densitometry in land cover classification. Photogrammetric Engineering and Remote Sensing, 44:1053-1059.
- 1978 Liu, C.J., and R.C. Tany. Disk-hammer starter for increment borer. Journal of Forestry, 76:732-733.
- 1978 Richards, D.B. Sawing hardwoods for higher value. South Lumber, 237:9-12.
- 1978 Springer, E.P., and G.B. Coltharp. Some hydrologic characteristics of a small forested watershed in eastern Kentucky. Transactions of the Kentucky Academy of Sciences, 39:31-38.
- 1979 Hanson, C.T., and R.L. Blevins. Soil water in coarse fragments. Soil Science Society of America Journal, 43:819-820.
- 1979 Richards, D.B., and J.A. Newman. Sawing high-quality red oak logs. Forest Products Journal, 29:36-39.
- 1979 Richards, D.B., W.K. Adkins, H. Hallock, and E.H. Bulgrin. Simulation of hardwood log sawing. USDA Forest Service Research Paper FPL 233. 21 pp.
- 1980 Carpenter, S.B., and N.D. Smith. Variation in leaf thickness among southern Appalachian hardwoods. Proceedings, 3rd Central Hardwood Forest Conference.
- 1980 Coltharp, G.B., and E.P. Springer. Hydrologic characteristics of an undisturbed hardwood watershed in eastern Kentucky. Proceedings, 3rd Central Hardwood Forest Conference.
- 1980 Duba, S.E., and S.B. Carpenter. Effects of shade on the growth, leaf morphology, and photosynthetic capacity of an American sycamore clone. Castanea, 45:219-227.
- 1980 Springer, E.P., and G.B. Coltharp. Effects of logging roads on storm hydrographs. Proceedings, American Society of Civil Engineers Watershed Management Symposium, Boise, Idaho.
- 1980 Springer, E.P., B.J. McGurk, R.H. Hawkins, and G.B. Coltharp. Curve numbers from watershed data. Proceedings, American Society of Civil Engineers Watershed Management Symposium, Boise, Idaho.

- 1981 Carpenter, S.B., and N.D. Smith. A comparative study of leaf thickness among southern Appalachian hardwoods. Canadian Journal of Botany, 59:1393-1396.
- 1981 Liu, C.J. Competition index and its relationship to individual tree growth. Proceedings, 17th International Union of Forest Research Organizations Congress, Kyoto, Japan.
- 1981 McComb, W.C., and J.J. Moriarty. Winter bird densities in eastern Kentucky forests. Kentucky Warbler, 57:67-71.
- 1981 McComb, W.C., and R.L. Ramsey. Habitat characteristics of forest clearings created by picloram herbicides and clearcutting. Proceedings, Southeast Association of Fish and Wildlife Agencies, 35:174-184.
- 1982 Carpenter, S.B. Effect of shade on development of the palisade and spongy mesophyll tissue in southern Appalachian hardwoods. Proceedings, 7th North American Forest Biology Workshop.
- 1982 Eigel, R.A., R.L. Blevins, R.F. Wittwer, and C.J. Liu. Site index of yellow-poplar in relation to soil and topography in eastern Kentucky. Proceedings, 4th Central Hardwood Forest Conference.
- 1982 Liu, C.J., L.C. Su, and S.J. Chang. Event-time correction and rectilinear digitization of multiple traversing hydrographic charts. Technical Report 8201, Department of Forestry, University of Kentucky.
- 1982 McComb, W.C., and J.J. Moriarty. Predicting ovenbird densities in eastern Kentucky forests. Kentucky Warbler, 58:23-27.
- 1982 McComb, W.C. Forestry and wildlife management in central hardwoods. Journal of Forestry, 80:490-492.
- 1982 McComb, W.C. Nest box and natural cavity use by *Peromyscus leucopus noveboracensis*. Transactions of the Kentucky Academy of Sciences, 43:71-73.
- 1982 Moriarty, J.J., and W.C. McComb. A fiber optics system for tree cavity inspection. Wildlife Society Bulletin, 10:173-174.
- 1982 Moriarty, J.J., and W.C. McComb. Effects of land use on winter bird communities. Transactions, Northeastern Fish and Wildlife Conference.
- 1982 McVay, M.E., and S.B. Carpenter. Effect of shading and age on dry matter distribution in clone and seedlings of American sycamore. Proceedings, Southern Forest Tree Improvement Conference, 16:328-335.
- 1982 Nuckols, J.R., and I.D. Moore. The influence of atmospheric nitrogen influx upon the stream nitrogen profile of a relatively undisturbed forested watershed. Journal of Hydrology, 57:113-135.
- 1982 Russin, J.S., L. Shain, and G.L. Nordin. Summary research: Sporulation and dissemination of hypovirulent strains of the chestnut blight fungus at the University of Kentucky. Proceedings, USDA Forest Service American Chestnut Blight Cooperators' Meeting, 40-48. Morgantown, West Virginia.
- 1983 Coltharp, G.B. Watershed evaluation of silvicultural BMPs in Kentucky. Proceedings, Southern Regional Meeting, National Council of the Paper Industry for Air and Stream Improvement, Inc. (NCASI).
- 1983 Honeycutt, C.W., R.L. Blevins, and R.F. Wittwer. Growth of white oak (*Quercus alba*) in relation to soil and site properties in eastern Kentucky. Proceedings, 4th Central Hardwood Forest Conference.
- 1983 Leopold, D.J., and R.N. Muller. Hosts of *Pyrularia pubera* Michx. (Santalaceae) in the field and in culture. Castanea, 48:138-145.
- 1983 Liu, C.J. Stem profile analysis. University of Oxford Commonwealth Forestry Institute Occasional Paper, 20:62-73.

- 1983 McComb, W.C., and R.L. Ramsey. Response of small mammals to forest clearings created by herbicides in the central Appalachians. Brimleyana, 8:121-134.
- 1983 McComb, W.C., and R.N. Muller. Snag densities in old-growth and second-growth Appalachian forests. Journal of Wildlife Management, 47:376-382.
- 1983 McIntee, E.E., and G.L. Nordin. Electrophoretic comparison of two types of fall webworm, *Hyphantria cunea* (Drury) (Lepidoptera:Arctiidae) occurring in central Kentucky. Journal of the Kansas Entomological Society, 56:190-198.
- 1983 Moore, I.D., G.B. Coltharp, and P.G. Sloan. Predicting runoff from small Appalachian watersheds. Transactions of the Kentucky Academy of Sciences, 44:135-145.
- 1983 Moriarty, J.J., and W.C. McComb. The long-term effect of timber stand improvement on snag and cavity densities in the central Appalachians. Snag Habitat Management: Proceedings of the Symposium. USDA Forest Service General Technical Report RM-99.
- 1983 Nordin, G.L., and E.L. Johnson. Biology of Caliroa quercuscoccineaa (Dyar) (Hymenoptera:Tenthredinidae) in central Kentucky. I. Observations on the taxonomy of principal life stages. Journal of the Kansas Entomological Society, 56:305-314.
- 1983 Roberts, D.R., R.W. Zimmerman, J.W. Stringer, and S.B. Carpenter. The effect of combined nitrogen on growth, nodulation, and nitrogen fixation of black locust seedlings. Canadian Journal of Forest Research, 13:1251-1254.
- 1983 Sloan, P.G., I.D. Moore, G.B. Coltharp, and J.D. Eigel. Modeling surface and subsurface stormflow on steeply sloping forested watersheds. University of Kentucky Water Resources Research Institute Research Report No. 142. Lexington, Kentucky.
- 1984 Coltharp, G.B. Watershed evaluations of silvicultural BMPs in Kentucky. NCASI Technical Bulletin, 417:38-41.
- 1984 McComb, W.C., and R.L. Ramsey. Bird density and habitat use in forest openings created by herbicides and clearcutting. Brimleyana, 9:83-96.
- 1984 Nordin, G.L., and E.L. Johnson. Biology of *Caliroa quercuscoccineaa* (Dyar) (Hymenoptera:Tenthredinidae) in central Kentucky. II. Development and behavior. Journal of the Kansas Entomological Society, 57:569-579.
- 1984 Overstreet, J.C. Robinson Forest Inventory. 1980–1982. University of Kentucky Agricultural Experiment Station, Lexington, Kentucky. 52 pp.
- 1984 Russin, J.S., L. Shain, and G.L. Nordin. Insects as carriers of virulent and cytoplasmically hypovirulent isolates of *Endothia parasitica*. Journal of Economic Entomology, 77:838-846.
- 1985 Liu, C.J. Digitization of hydrographs. Software Solutions: Proceedings, 2nd Annual Meeting, Forest Resources Systems Institute, 118-119.
- 1985 McComb, W.C. Habitat associations of birds and mammals in an Appalachian forest. Proceedings, Southeast Association of Fish and Wildlife Agencies Conference, 39:420-429.
- 1985 Moriarty, J.J., and W.C. McComb. Plant community composition and structure in a central Appalachian forest stand 25 years after timber stand improvement. Castanea, 50:32-42.
- 1985 Nordin, G.L., and D. O'Canna. Development threshold temperatures and thermal constants for two types of fall webworm, *Hyphantria cunea* (Drury) (Lepidoptera:Arctiidae) occurring in central Kentucky. Journal of the Kansas Entomological Society, 58:626-630.
- 1986 Dunn, J.P., T.W. Kimmerer, and G.L. Nordin. Attraction of the twolined chestnut borer, Agrilus bilineatus (Weber) (Coleoptera:Buprestidae) and associated borers to volatiles of stressed white oak. Canadian Entomologist, 118:503-509.

- 1986 Dunn, J.P., T.W. Kimmerer, and G.L. Nordin. The role of host tree condition in attack of white oaks by the twolined chestnut borer, *Agrilus bilineatus* (Weber) (Coleoptera:Buprestidae). Oecologia, 70:596-600.
- 1986 Kalisz, P.J. Effect of ionic strength on the cation exchange capacity of some forest soils. Communications in Soil Science and Plant Analysis, 17:999-1007.
- 1986 Kalisz, P.J. Soil properties of steep Appalachian old field. Ecology, 67:1011-1023.
- 1986 Liu, C.J., and R.C. Albright. Digitization of arc-shaped timeline event recorder charts. Water Resources Bulletin, 22:769-775.
- 1986 Liu, C.J. Rectifying radii on off-center increment cores. Forest Science, 32:1058-1061.
- 1986 McComb, W.C., and P.L. Groetsch. Methods for inspection of cavities in trees and snags. The Kentucky Warbler, 62:61-64.
- 1986 Phillippi, M.A., and A. Boebinger. A vegetational analysis of three small watersheds in Robinson Forest, eastern Kentucky. Castanea, 51:11-30.
- 1986 Stringer, J.W. A practical method for *Paulownia tomentosa* production. Tree Planters' Notes, 37(2):8-11.
- 1987 Coltharp, G.B., and R.C. Albright. Nutrient flux on undisturbed hardwood watersheds in eastern Kentucky. Proceedings, 6th Central Hardwood Forest Conference.
- 1987 Hill, D.B. Oak-hickory regeneration in eastern Kentucky. Proceedings, 6th Central Hardwood Forest Conference.
- 1987 Kalisz, P.J., R.W. Zimmerman, and R.N. Muller. Root density, abundance, and distribution in the mixed mesophytic forest of eastern Kentucky. Soil Science Society of America Journal, 51:220-225.
- 1987 McPeek, G.A., W.C. McComb, J.J. Moriarty, and G.E. Jacoby. Bark-foraging bird abundance unaffected by increased snag availability in a mixed mesophytic forest. Wilson Bulletin, 99:253-257.
- 1987 Stringer, J.W., T.W. Kimmerer, and J.C. Overstreet. Oak mortality in eastern Kentucky. Proceedings, 6th Central Hardwood Forest Conference, Knoxville, Tennessee, 525-526.
- 1988 Cremeans, D.W., and P.J. Kalisz. Distribution and characteristics of windthrow microtopography on the Cumberland Plateau of Kentucky. Soil Science Society of America Journal, 52(3):816-821.
- 1988 Forschler, B.T., and G.L. Nordin. Comparative pathogenicity of selected entomogenous nematodes to the hardwood borers, *Prionoxystus robiniae* (Peck) (Lepidoptera:Cossidae) and *Megacyllene robiniae* (Forster) (Coleoptera:Cerabycidae). Journal of Invertebrate Pathology, 52:343-347.
- 1988 Forschler, B.T., and G.L. Nordin. Suppression of carpenterworm, *Prionoxystus robiniae* (Lepidoptera:Cossidae) with the entomogenous nematodes, *Steinernema feltiae* and S. *bibionis*. Journal of the Kansas Entomological Society, 61:396-400.
- 1988 Olson, J.R., F.C. Fackler, and J.W. Stringer. Quality of air-dried Paulownia lumber. Forest Products Journal, 39:75-80.
- 1988 Stringer, J.W., G.W. Miller, and R.F. Wittwer. Costs to apply crop-tree release in small sawtimber white oak stands. USDA Forest Service Research Paper NE-620. 5 pp.
- 1989 Dotson, D.B., and P.J. Kalisz. Characteristics and ecological relationships of earthworm assemblages in undisturbed forest soils in the southern Appalachians of Kentucky, USA. Pedobiologia, 33:211-220.
- 1989 Kalisz, P.J., and D.B. Dotson. Land-use history and the occurrence of exotic earthworms in the mountains of eastern Kentucky. American Midland Naturalist, 122:288-297.
- 1989 Muller, R.N., P.J. Kalisz, and J.O. Luken. Fine root production of astringent phenolics. Oecologia, 79:563-565.

- 1989 Stringer, J.W., T.W. Kimmerer, J.C. Overstreet, and J.P. Dunn. Oak mortality in eastern Kentucky. Southern Journal of Applied Forestry, 13:86-91.
- 1990 Dunn, J.P., D.A. Potter, and T.W. Kimmerer. Attraction of the twolined chestnut borer (Coleoptera:Buprestidae) to scarlet oaks infected with chestnut blight fungus. Environmental Entomology, 19(2):239-243.
- 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.
- 1990 Sainju, U.M., and P.J. Kalisz. Characteristics of "coal bloom" horizons in undisturbed forest soils of eastern Kentucky. Soil Science Society of America Journal, 54:879-882.
- 1990 Sussenbach, T. Archeological site distributions on the Cumberland Plateau of eastern Kentucky. Program for Cultural Resource Assessment, University of Kentucky, Archeological Report 218.
- 1991 Muller, R.N. Growing season water relations and the ecological distribution of *Rhododendron maximum* L. and *Kalmia latifolia* L. Bulletin of the Torrey Botanical Club, 118:123-127.
- 1991 Muller, R.N., and Y. Liu. Course woody debris in an old-growth deciduous forest. Canadian Journal of Forest Research, 21:1567-1572.
- 1992 Liu, Y., and R.N. Muller. The effect of drought and frost on radial growth of overstory and understory stems in a deciduous forest. American Midland Naturalist, 129:19-25.
- 1992 Muller, R.N., and M.E. Hamilton. A simple, effective method for determining the bulk density of stony soils. Communications in Soil Science and Plant Analysis, 23:313-319.
- 1993 Liu, Y., and R.N. Muller. Aboveground net primary productivity and nitrogen mineralization in a mixed mesophytic forest of eastern Kentucky. Forest Ecology and Management, 59:53-62.
- 1993 Stringer, J.W. Groundfire effects in a sapling-sized oak-maple stand. Proceedings, 9th Central Hardwoods Forest Conference. USDA Forest Service General Technical Report NC-161, 514-515.
- 1995 Dale, M.E., H.C. Smith, and J.N. Pearcy. Size of clearcut opening affects species, composition, growth rate, and stand characteristics. USDA Forest Service Research Paper NE-698. 21 pp.
- 1995 Stringer, J.W. Fungicide treatment increases sprouting percent and sprout growth from *Paulownia tomentosa* root cuttings. Tree Planters' Notes, 45(3):95-100.
- 1995 Stringer, J.W. Sprouting and growth of *Paulownia tomentosa* root cuttings. Tree Planters' Notes, 45(3):101-103.
- 1996 Barton, A.M., and S.K. Gleeson. Ecophysiology of seedlings of *Quercus* spp. and *Acer rubrum* across a topographic gradient in eastern Kentucky. Forest Science, 42:335-342.
- 1996 Griffith, Converse. Distribution of *Viola blanda* in relation to within-habitat variation in canopy openness, soil phosphorus, and magnesium. Bulletin of the Torrey Botanical Club, 123(4):281-285.
- 1996 Stringer, J.W., and D.H. Graves. Tree shelters overcome initial establishment problems for containerized seedlings of *Paulownia tomentosa* over a wide range of planting conditions. Proceedings, Tree Shelter Conference. USDA Forest Service General Technical Report NE-221, 74. 80 pp.
- 1997 Arthur, M.A., R.N. Muller, and S. Costello. Species composition in a central hardwood forest in Kentucky eleven years after clearcutting. American Midland Naturalist, 137:274-281.
- 1997 Hurst, T.E., and M.J. Lacki. Food habits of Rafinesque's bigeared bat in southeastern Kentucky. Journal of Mammalogy, 78:525-528.

- 1998 Arthur, M.A., G.B. Coltharp, and D.L. Brown. Effects of best management practices on forest streamwater quality. Journal of the American Water Resources Association, 34:481-496.
- 1998 David, A., B. Wender, P. Weis, J. Stringer, and D. Wagner. A new seed trap design.Tree Planters' Notes, 48(1-2):35-37.
- 1998 Griffith, Converse. The response of *Viola blanda* Willd. (Violaceae) to phosphorus fertilization and shading. Journal of the Torrey Botanical Society, 12(3):194-198.
- 1998 Hutchinson, J.T., and M.J. Lacki. Possible gleaning behavior in *Lasiurus borelis*. Bat Res. News, 39:144.
- 1998 Lacki, M.J., and M.D. Baker. Observations of forest-interior bird communities in older-growth forest in eastern Kentucky. Journal of the Kentucky Academy of Science, 59:174-177.
- 1998 Stringer, J.W. Establishment of Paulownia plantations using float tray seedlings. USDA Forest Service General Technical Report SRS-20, 238-241. 628 pp.
- 1999 Buss, L.J., and L.K. Rieske-Kinney. Impacts of gypsy moth suppression tactics on ground dwelling arthropods. pp. A1-2. IN: J.W. Stringer and D.L. Loftis, eds. Proceedings, 12th Central Hardwood Forest Conference, February 28-March 2, 1999, Lexington, Kentucky. USDA Forest Service General Technical Report SRS-24. USDA, Southern Research Station, Asheville, North Carolina.
- 1999 David, A.J., D.B. Wagner, and J.W. Stringer. Simple sequence repeat loci in white oak (*Quercus alba*). Plant & Animal Genome VII Conference, San Diego, California.
- 1999 Hurst, T.E., and M.J. Lacki. Roost selection, population size, and habitat use by a colony of Rafinesque's big-eared bats (*Corynorhinus rafinesquii*). American Midland Naturalist, 142:363-371.
- 1999 Hutchinson, J.T., and M.J. Lacki. Foraging behavior and habitat use of red bats in mixed mesophytic forest of the Cumberland Plateau, Kentucky. pp. 171-177. IN: J.W. Stringer and D.L. Loftis, eds. Proceedings, 12th Central Hardwood Forest Conference, February 28-March 2, 1999, Lexington, Kentucky. USDA Forest Service General Technical Report SRS-24. USDA, Southern Research Station, Asheville, North Carolina.
- 1999 Maehr, D.S., R. Grimes, and J.L. Larkin. Initiating elk restoration: The Kentucky case study. Proceedings, Annual Conference of Southeastern Fish and Wildlife Agencies, 53:(in press).
- 1999 Stringer, J., and Taylor, L. Effects of leaf litter depth on acorn germination. USDA Forest Service General Technical Report SRS-24, 289-290.
- 2000 Hutchinson, J.T., and M.J. Lacki. Selection of day roosts by red bats in mixed mesophytic forests. Journal of Wildlife Management, 64:87-94.
- 2000 Stringer, J. Development of advanced oak regeneration from two-age reserve trees. USDA Forest Service General Technical Report SRS-24, 291-293.
- McEwan, R.W., R.N. Muller, M.A. Arthur, and H.H. Houseman. Temporal and spatial patterns of flowering dogwood mortality in the mixed mesophytic forest of eastern Kentucky. Journal of the Torrey Botanical Club (in press).
- \_\_\_\_\_ Rieske, L.K., and L.J. Buss. Comparative effects of gypsy moth suppression tactics on ground- and litter-dwelling arthropods in the central hardwood forests of the Cumberland Plateau. Forest Ecology and Management (in review).
- \_\_\_\_\_ Rieske, L.K., and L.J. Buss. Site characteristics influence diversity of ground- and litter-dwelling Coleoptera in Appalachian oak-hickory forests. Environmental Entomology (in press).
- \_\_\_\_\_ Rieske, L.K., and L.J. Buss. Effects of gypsy moth suppression tactics on litter- and ground-dwelling arthropods in the central hardwood forests of the Cumberland Plateau. Forest Ecology and Management (in press).

## M.S. THESES

- 1968 Schafer, J.P. Summer home range and activity of radioactivelytagged and dye-tagged creek chubs, *Semotilus atromaculatus*.
- 1972 Hutchins, R.B. The influence of microclimate on the soils and vegetation of steep forested slopes in eastern Kentucky.
- 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 Duba, 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 Eigel, R.A. Site quality of yellow-poplar in relation to soil and topography in eastern Kentucky.
- 1978 Springer, E.P. Calibration and analysis of three Robinson Forest watersheds.
- 1980 Chen, W. Computer simulation of intertree competition in a forest stand.
- 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 pubera* 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, R.C. Flood peak frequencies and magnitudes on three small forested watersheds in eastern Kentucky.
- 1985 Dunn, J.P. Ecological interactions between Argilus bilineatus Weber and stressed white oak (Quercus alba L.).
- 1985 Hadisuparto, H. An evaluation of the modified Universal Soil Loss Equation on forested watersheds in eastern Kentucky.
- 1985 McPeek, G.A. Decay patterns and bird use of snags created with herbicide injections and tree topping.
- 1986 Creighton, J.L. Nitrogen and phosphorus dynamics in decaying American beech and yellow-poplar.
- 1986 Groetsch, P.L. Effects of an improvement cut on a bird community in a central Appalachian hardwood stand.
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