

## Appendix C

### Research projects on the Hoosier National Forest

Below we list the research needs related to vegetation management or threatened and endangered species that were identified in the Forest Plan, pp. 3-4 to 3-7. For each research need the corresponding research activities are listed. As shown, most research needs recognized in the Forest Plan are being addressed, many through partnerships with other entities. Some research studies are still in progress.

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- Backs, Steven E. 1994. Invertebrate abundance and vegetative structure within various forest opening management regimes. Statewide Wildlife Research. Progress Report. 9 pages.
- Ball, R. L., and B. M. Schoenung. 1996. Status of mussel populations in the primary harvest areas. Indiana Department of Natural Resources, Division of Fish and Wildlife Final Research Report, Indianapolis. 72 pp.
- Botts, Paul; Haney, Alan; Holland, Karen; and Packard, Steve. 1994. Midwest oak ecosystems recovery plan. pp. 1-112
- Brewer, Lawrence G. and Lane, Steve M. 1996. Inventory of rare plant and animal species in the tornado blowdown area of the Pleasant Run Unit in the Brownstown District of the Hoosier National Forest. 3D/Environmental. 27 pages.
- Buskirk, William H. Management for endangered, threatened, and species of special concern in Hoosier National Forest; A commentary by the Nongame Bird Technical Advisory Committee. pp. 1-18
- Davidson, M. 1995. The effect of a prescribed burn on a chestnut oak woodland in the Hoosier National Forest. Honors Thesis, Ball State University.
- Ecosearch, Inc. 1998. A freshwater mussel inventory of the Tell City Ranger District; Hoosier National Forest; Perry and Crawford counties; Indiana. 21 pp.+ Appendices
- Ecosearch, Inc. [in preparation]. A freshwater mussel inventory of tributaries of the East Fork of the White River on the Brownstown Ranger District; Hoosier National Forest; Indiana.
- Ehman, J. Estimation of carbon budgets in old clearcuts on Hoosier National Forest. [In progress.]

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- Gustafson, Eric J. and Thomas R. Crow. 1996. Simulating the effects of alternative forest management strategies on landscape structure. *Journal of Environmental Management*. 46, 77-94.
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- Hobbs III, Horton H. 1994. Assessment of the biological resources of selected caves in the Hoosier National Forest, Southern Indiana, Interim Report. 49 pages.
- Hobbs III, Horton H. 1995. Assessment of the biological resources of selected caves in the Hoosier National Forest, Southern Indiana. Final Report. 126 pages.
- Hobbs, Horton H. III. 1995. Final report, assessment of the biological resources of selected caves in the Hoosier National Forest, southern Indiana. Department of Biology, Wittenberg University, Springfield, Ohio. pp. 114.
- Huebner, Cynthia D. 1991. Herb diversity and natural disturbance in the Hoosier National Forest, Pleasant Run Unit. Thesis. 111 pages.
- Indiana Department of Environmental Management. Fish sampling within the Sulphur Creek watershed.
- Indiana Department of Natural Resources. 1993. Indiana's rare plants and animals: A checklist of endangered and threatened species. 26 pp.
- Jenkins, Michael A., and Parker, George R. 1994. Response of plant communities to human induced disturbances across four ecological landtype phases of Southern Indiana Forests. pp. 1-6
- Jenkins, Michael A. and Parker, George R. 1996. Composition and diversity of herbaceous layer vegetation in silvicultural openings of southern Indiana forests. Unpublished. 19 pages.
- Jenkins, Michael A. 1997 Ecological disturbance across four ELTPs. Purdue University.
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- LeBlanc, David C., and Salvagin, Tina M. Stand history reconstruction for chestnut oak woodlands on Fork Ridge, Pleasant Run Unit, Hoosier National Forest, Indiana. Final Report. pp. 11-12.
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- Lewis, Julian J. 1994. Lost River cave and karst biological survey. U.S. Army Corps of Engineers. Caves on Hoosier National Forest. pp. 30-33.
- Liddle, Thomas D. 1995. Ecology and observed biota of selected caves in the Hoosier National Forest, Indiana. 36 pages.
- Moss, R. 1994. Pate Hollow Water Quality Study. Draft and Final. pp. 1-37.
- Morgan, Cid H. 1995. Southern Tier Fragmentation/Openlands Team; Habitat Fragmentation Report. FC:1990 pp. 1-12.
- Olson, Steve; Hedge, Cloyce L.; Homoya, Michael A., and LeBlanc, Cheryl M. 1990. Inventory of endangered, threatened and rare plant species in the Tell City District of Hoosier National Forest. Division of Nature Preserves, Indiana Department of Natural Resources. 322 pages. **Note: For Official Use Only - Not for Release to Public.**
- Olson, S.; Hedge, C.L.; Homoya, M.A.; and LeBlanc, C.M. 1991. Inventory of endangered, threatened, and rare plant species in the Pleasant Run Unit, Brownstown District of the Hoosier National Forest. Division of Nature Preserves, Indiana Department of Natural Resources. 94 pages. **Note: For Official Use Only - Not for Release to Public.**
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- Schlesinger, R.C., D.T. Funk, P.L. Roth, and C.C. Myers. Assessing changes in biological diversity over time. [On-going]
- Schwalbach, Monica. 1992. Landscape scale and pattern implications for management of Neotropical migrant birds and forest openings, Hoosier National Forest, Indiana. NTMB Workshop Abstract. pp. 1-3.
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- Spetich, Martin A. 1995. Characteristics and spatial pattern of old-growth hardwood forests in the Midwest. [Doctoral thesis, Purdue University]
- Spetich, Martin A.; Parker, George R.; and Gustafson, Eric J. 1997. Spatial and temporal relationships of old-growth and secondary forests in Indiana, USA. *Natural Areas Journal* Volume 17 (2). pp 118-130
- Spetich, Martin A.; Shifley, Stephen R.; Parker, George R.; and Ponder, Felix Jr. 1997. Ground cover in old-growth forests of the Central Hardwood Region. In: Pallardy, Stephen G.; Cecich, Robert A.; Garrett, H. Eugene; Johnson, Paul S., eds. *Proceedings, 11th Central Hardwood Forest Conference; 1997 March 23-26; Columbia, MO. Gen. Tech. Rep. NC-188. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 152-160.*
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