

Jay E. Clark

Department of Biology
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EDUCATION

University of Tennessee, Knoxville, 2003-2004

Post-doctoral Fellow

Research Focus: Patch occupancy models for black bears in the Coastal Plain and Interior Highlands of the southeastern United States.

Oklahoma State University, 1999-2003

Ph.D., Wildlife Ecology (May 2003)

Dissertation Title: Atmospheric deposition of nitrogen and nitrogen cycling: links to the consumer community

University of Tennessee, Knoxville, 1997-1999

M.S., Wildlife and Fisheries Science (August 1999)

Minor: Statistics

Thesis Title: Capture and on-site release of nuisance black bears and survival of orphaned black bears released in the Great Smoky Mountains

University of Tennessee, Knoxville, 1994-1996

B.S., Wildlife and Fisheries Science (December 1996)

Maryville College, Maryville, Tennessee, 1992-1994

PUBLICATIONS

Peer-reviewed

Clark, J. E., F. T. van Manen, J. D. Clark, R. Eastridge, W. Abler, M. Davidson, D. Hamilton, K. R. Hersey, S. McDonald, and D. Telesco. 2005. Distribution of black bears in the southern Coastal Plain and Interior Highlands. Eastern Workshop on Black Bear Research and Management 18:245–256.

Clark, J. E., E. C. Hellgren, E. J. Jorgensen, and D. M. Leslie, Jr. 2005. Population dynamics of harvest mice (*Reithrodontomys fulvescens* and *R. montanus*) across a nitrogen-amended landscape. Canadian Journal of Zoology 154:240–252.

Clark, J. E., E. C. Hellgren, Jennifer L. Parsons, E. E. Jorgensen, D. M. Engle, and D. M. Leslie, Jr. 2005. Nitrogen outputs from fecal and urine deposition of small mammals: implications for nitrogen cycling. Oecologia 144:447–455.

Kasparian, M. A., E. C. Hellgren, S. M. Ginger, L. P. Levesque, **J. E. Clark**, and D. L. Winkelman. 2004. Population characteristics of Virginia opossum in the cross timbers during raccoon reduction. American Midland Naturalist 151:154–163.

Clark, J. E., E. C. Hellgren, E. E. Jorgensen, S. J. Tunnell, D. M. Engle, and D. M. Leslie, Jr. 2003. Population dynamics of hispid cotton rats (*Sigmodon hispidus*) across a nitrogen-amended landscape. Canadian Journal of Zoology 81:994–1003.

Clark, J. E., F. T. van Manen, and M. R. Pelton. 2003. Survival of nuisance black bears released on-site in Great Smoky Mountains National Park. Ursus 14: 210–214.

Clark, J. E., E. C. Hellgren, and E. E. Jorgensen. 2003. Catastrophic decline of a high-density population of cotton rats (*Sigmodon hispidus*) in central Oklahoma. Southwestern Naturalist 48: 467–471.

Clark, J. E., J. L. Parsons, E. C. Hellgren, E. E. Jorgensen, and D. M. Leslie, Jr. 2003. Nitrogen concentration of stomach contents as an index of dietary nitrogen for hispid cotton rats (*Sigmodon hispidus*). Journal of Mammalogy 84:1399–1409.

Clark, J. E., M. R. Pelton, B. J. Wear, and D. R. Ratajczak. 2002. Survival of orphaned black bears released in the Smoky Mountains. Ursus 13: 269–274.

Clark, J. E., F. T. van Manen, and M. R. Pelton. 2002. Correlates of success for on-site releases of nuisance black bears in Great Smoky Mountains National Park. Wildlife Society Bulletin 30: 104–111.

Technical Reports

Clark, J. E., F. T. van Manen, and J. D. Clark. 2006. Patch occupancy models for black bears in the Coastal Plain and Interior Highlands of the southeastern United States. Final Report. Submitted to U.S. Federal Highway Administration, Arkansas Game and Fish Commission, and Louisiana Department of Wildlife and Fisheries.

Clark, J. E., E. C. Hellgren, J. L. Parsons, S. Tunnell, D. M. Engle, and D. M. Leslie, Jr. 2002. The effects of nitrogen enrichment on nitrogen cycling and structure in plant and small-mammal communities: Part 3. Population dynamics and nitrogen flux of small mammals across a nitrogen-amended landscape. U.S. Environmental Protection Agency, National Risk Management Research Laboratory, Ada, OK.

West, A. A., E. E. Jorgensen, B. Faulkner, and **J. E. Clark.** 2003. Ecological controls on denitrification in upland soils. USEPA Report.

Additional Publications

Jorgensen, E. E., P. M. Mayer, A. E. West, M. E. Gonsoulin, S. J. Tunnell, **J. E. Clark,** J. L. Parsons, D. M. Engle, and E. C. Hellgren. 2002. Early indicators of nitrate stress; effects to ecosystems of chronic exposure to low doses of bioavailable nitrogen. Proceedings of the National TMDL Science and Policy Conference, Water Environment Federation, Phoenix, Arizona.

TWS Student Affairs Committee. 2002. Student chapter advisor handbook: a guide of ideas and suggestions. The Wildlife Society, Bethesda, Maryland.

Clark, J. E. 2002. Catastrophic decline of a high-density population of cotton rats in Central Oklahoma. The Grapevine 27 (Newsletter of the Oklahoma Chapter of The Wildlife Society).

Clark, J. E. 1999. Are you a certified wildlife biologist? Wildlife Society Bulletin 27:243-244.

PROFESSIONAL PRESENTATIONS

Clark, J. E., J. L. Parsons, E. C. Hellgren, E. J. Jorgensen, and D. M. Leslie, Jr. 2003. Nitrogen concentration of stomach contents as an index of dietary nitrogen for hispid cotton rats (*Sigmodon hispidus*). 10th Annual Conference of The Wildlife Society, Burlington, VT.

Clark, J. E., J. L. Parsons, E. C. Hellgren, E. J. Jorgensen, and D. M. Leslie, Jr. 2003. Nitrogen outputs of small mammals from fecal and urine depositions: implications for nitrogen cycling? 10th Annual Conference of The Wildlife Society, Burlington, VT.

Clark, J. E. 2003. Population dynamics of small mammals across a nitrogen-amended landscape. Wilks Award Finalist, 50th Anniversary Meeting of the Southwestern Association of Naturalists, University of Oklahoma, Norman, OK.

Clark, J. E., E. C. Hellgren, E. E. Jorgensen, and D. M. Leslie, Jr. 2003. Response of a small-mammal community to nitrogen-amendments in an old-field ecosystem. 14th Annual Research Symposium, Oklahoma State University, Stillwater, OK.

Clark, J. E., F. T. van Manen, and M. R. Pelton. 2003. Correlates of success for on-site releases of nuisance black bears in Great Smoky Mountains National Park. Poster. 10th Wildlife Damage Management Conference, Hot Springs, AR.

Jorgensen, E. E., P. M. Mayer, A. E. West, M. E. Gonsoulin, S. J. Tunnell, **J. E. Clark,** J. L. Parsons, D. M. Engle, and E. C. Hellgren. 2002. Early indicators of nitrate stress: effects to ecosystems of chronic exposure to low doses of bioavailable nitrogen. National TMDL Science and Policy Conference, Water Environment Federation, Phoenix, Arizona.

Clark, J. E., J. L. Parsons, E. C. Hellgren, E. J. Jorgensen, and D. M. Leslie, Jr. 2002. Nitrogen concentration of stomach contents as an index of dietary nitrogen for hispid cotton rats (*Sigmodon hispidus*). 82nd Meeting of the American Society of Mammalogists, McNeese State University, Lake Charles, Louisiana.

Clark, J. E., E. C. Hellgren, and E. J. Jorgensen. 2002. Atmospheric deposition of nitrogen and nitrogen cycling: links to the consumer community. Lunchtime Seminar Series, Department of Zoology, Oklahoma State University, Stillwater, OK.

Clark, J. E., J. L. Parsons, E. C. Hellgren, and E. E. Jorgensen. 2001. Nitrogen concentration of stomach contents as an index to dietary nitrogen in hispid cotton rats (*Sigmodon hispidus*). Oklahoma Academy of Science, Lawton, OK.

Clark, J. E., M. R. Pelton, B. J. Wear, and D. R. Ratajczak. 2001. Survival of orphaned black bears released into the Smoky Mountains. Poster. 13th International Conference on Bear Research and Management, Jackson Hole, WY.

Clark, J. E., E. C. Hellgren, and E. E. Jorgensen. 2001. Population dynamics of cotton rats across a nitrogen amended landscape. Poster. 8th Annual Conference of The Wildlife Society, Reno, NV.

- Clark, J. E.,** E. C. Hellgren, and E. E. Jorgensen. 2000. Effects of nitrogen enrichment on nitrogen cycling and structure of small mammal communities. Annual Meeting of the Oklahoma Chapter of The Wildlife Society, Kingfisher, OK.
- Clark, J. E.** 2000. Black bear management in Great Smoky Mountains National Park. Lunchtime Seminar Series, Department of Zoology, Oklahoma State University, Stillwater, OK.
- Clark, J. E.,** E. C. Hellgren, and E. E. Jorgensen. 2000. Population dynamics of small mammals across a nitrogen amended landscape. Oklahoma Academy of Science, Tulsa, OK.
- Clark, J. E.** 1999. Capture and on-site release of nuisance black bears and survival of orphaned black bears in the Great Smoky Mountains. Public seminar presented to Dept. of Forestry, Wildlife, and Fisheries, University of Tennessee, Knoxville, TN.
- Clark, J. E.,** M. R. Pelton, B. J. Wear, and D. R. Ratajczak. 1999. Survival of orphaned cubs released into the Smoky Mountains. 15th Eastern Black Bear Workshop, Lennox, MA.
- Clark, J. E.,** F. T. Van Manen, and M. R. Pelton. 1999. Correlates of success for on-site releases of nuisance black bears in Great Smoky Mountains National Park. 6th Annual Conference of The Wildlife Society, Austin, TX.
- Clark, J. E.,** and M. R. Pelton. 1997. Estimating black bear populations using remote camera sightings for mark-resight estimates. Annual Meeting, Tennessee Chapter of The Wildlife Society, Harrogate, TN.