

NICOLE HAYNES MCCOY, PH.D.

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www.carruslandsystems.com

BUSINESS DEVELOPMENT DIRECTOR

A dynamic natural resource economist, Nicole has pioneered innovations in forest management and biological incursion models used around the world. An expert in private-public hunting partnerships, Nicole serves as a national and international adviser in developing cooperative wildlife programs that create incentives for wildlife stewardship. Her experience in federal and state agricultural and natural resource policy allows her to keep abreast of changes in the political environment that may impact private landowners.

EDUCATION

COLORADO STATE UNIVERSITY, Fort Collins, Colorado
Ph.D. in Forest & Environmental Economics, 1999

UNIVERSITY OF IDAHO, Moscow, Idaho
Bachelor of Science in Interdisciplinary Studies, 1994

PROFESSIONAL EXPERIENCE

CARRUS LAND SYSTEMS, LLC, Logan, Utah 2006-Present
Director of Business Development

- Integrate operations, including agriculture, forestry, conservation, research and development, recreation, and wildlife, across the Carrus system.
- Consistently seek out new operations opportunities while keeping abreast of new and emerging markets.
- Collaborate with project managers to implement operations.
- Work with all directors and managers to improve on current products, service, and processes; participate in meetings and knowledge sharing activities to create new products, services, or processes.
- Track changes in national and state policies that may affect Carrus system.
- Track and evaluate Carrus system efficiencies and inefficiencies.
- Translate research findings and other knowledge into a new or improved product, process, or service.

UTAH STATE UNIVERSITY, Logan, Utah 1999-Present
Adjunct Assistant Professor, Department of Environment & Society, 2007-Present
Assistant Professor, 1999-2007

- Conduct research primarily focused on addressing market failures in natural resources management, namely public goods and externalities. Most research addresses problems with biological incursions (e.g., invasive weeds, nuisance wildlife) and how they can be efficiently and effectively managed.
- Current research projects include *Economics of Managing Invasive Plant Species*, *Cost-Minimization Applied to Wildlife Damage Management*, *Reproductive Inhibition Strategies for Nuisance Wildlife*, *Economic Impacts of the Glassy-winged sharpshooter (GWSS) in California*, and *Economics of Enterprise Diversification for Western Ranches*.
- Teach undergraduate and graduate-level courses, including Natural Resource Policy and Economics, Collaborative Problem Solving for Environment and Natural Resources, Economic Decision-Making for Natural Resource Managers, Restoration and Rehabilitation Economics, and Economics of Wildlife Damage Management.

FUNDED RESEARCH

- McCoy, N. Developing a program for landscape-level cost-effectiveness analysis of invasive plant management, Utah Agricultural Experiment Station, \$13,600. (7/04-7/06)
- McCoy, N. Economic analysis of reproductive inhibition for nuisance wildlife. A cooperative agreement with USDA-APHIS National Wildlife Research Center, \$90,000. (10/02-10/05)
- McCoy, N. An investigation of the requirements for an effectiveness model of weed management. New Faculty Research Grant, Utah State University, \$11,500. (6/00-6/01)
- McCoy, N. Economic impacts of the Utah Cooperative Wildlife Management Unit Program on landowners and rural communities in Utah. Jack H. Berryman Institute and the Utah CWMU Association, \$40,000. (1/01-1/03)
- Howery, Larry, Maria Fernandez-Gimenez, Nicole Haynes, Mark Brunson, J. Gleason, Richard Lee. Southwest rangeland invasive plants initiative USDA--CREES Initiative for Future Agricultural and Food Systems. \$621,455. (10/00-10/05)
- McCoy, N. Addendum to Economic impacts of the Utah Cooperative Wildlife Management Unit Program on landowners and rural communities in Utah: Hunter Satisfaction Survey Jack H. Berryman Institute/Utah CWMU Association \$7,500. (1/02-9/02)
- White, Michael, Nicole McCoy, and Paul Box. Biocomplexity in a coupled natural and human system: the glassy-winged sharpshooter and threats to the California wine industry. NSF \$55,000. (10/01-10/02)

FUNDED RESEARCH*(Continued)*

- Elliston, Lisa. Develop an economic module incorporating nationally consistent cost benefit analysis methodology, socio-economic assessment and assessment of education campaigns. Australian Cooperative Research Center for National Plant Biosecurity. AU \$438,180 (10/05-9/09)
- Nowak, Robert, Glimp, Hudson, Doescher, Paul, Tanaka, John, Schupp, Gene, Rasmussen, Allen, Call, Chris, Chambers, Jeanne, Taush, Robin, Pyke, Dave, Blank, Bob, Jones, Tom and Mike Pellant. Integrated restoration strategies towards weed control on Western rangelands. USDA CREES \$3.34 million. (10/00-10/05)

SELECTED PUBLICATIONS*NOTE: * indicates peer review; all italicized names are graduate students*

- McCoy, N.L. and Atwood, S.B. 2005. Flaws in Orr's Laws (and the paradigm that produced them). *Conservation Biology*. Vol 19 (4) 1318-1320.*
- McCoy, N. L. and Amatya, P.D. 2005. Games People Play: Human behavior and invasive weed management. *Rangelands*.* In press.
- Atwood, S.B. and N. McCoy, D. Snyder, R.E. Banner, J. Pfister, and F.D. Provenza. 2005. Land Manager's GEM: A flexible framework for comparative analyses. Utah Agricultural Experiment Station Research Report #193.
- Amatya, P., W.F. Lam, N. McCoy and P. Amatya. 2004. Explaining intervention outcomes in a farmer-managed irrigation system. *Asia-Pacific Journal of Rural Development* Vol. XIV, No. 1. 68-86.*
- McCoy, N.L. 2003. Behavioral externalities in natural resource production possibility frontiers: integrating biology and economics to model human-wildlife interactions. *Journal of Environmental Management*. (69) 105-113.*
- McCoy N.L., T. Watt, P. Box. 2003. Cellular automaton-based cost-effectiveness analysis of rangeland weed control. *African Journal of Range and Forage Science* (20)2 1226-1228.*
- McCoy, N.L., P. Amatya, L. Hunnicutt. 2003. Managing invasive weeds on rangelands: A provisional dilemma. *African Journal of Range and Forage Science* (20)2 1604-1608.*
- Whitacre, M. and N.L. McCoy. 2003. Risk planning for fire rehabilitation. *Rangelands*. 25(4) 20-26.*
- Conover, M. R. and N. H. McCoy. 2003. Positive and negative values of blackbirds. In: Management of North American Blackbirds. G. M. Linz, editor. USDA-APHIS National Wildlife Research Center. 118 pp. Invited.*
- McCoy, N. 2004. WeedCEA. A simple, straightforward tool that land managers can use to evaluate the potential cost-effectiveness of alternative weed management planning. Available at <http://www.cnr.usu.edu/faculty/nmccoy/>
- Atwood, S.B. and N. McCoy. 2005 Land Manager's GEM. The General Economic Model (GEM) is a Microsoft Excel-based customizable spreadsheet that enables land managers to quickly evaluate the tradeoffs resulting from decision-making at multiple levels. Available at <http://www.behave.net>

SELECTED PRESENTATIONS

- Atwood, S.B., N. McCoy, M. Kossler. 2005. Behavioral Education for Human, Animal, Vegetation, and Ecosystem Management. Utah Bioneers. Logan, UT
- McCoy, N. 2004. Economic Costs of Weeds. Presented at the 2nd Annual Noxious Weeds/Invasive Plant Summit. U. Arizona Cooperative Extension, Phoenix, AZ. Invited.
- McCoy, N. 2004. Cost-Effectiveness Analysis in Invasive Weed Management. Presented at the Southwest Weeds Short course. U. Arizona Cooperative Extension. Farmington, New Mexico. Invited.
- Amatya, P. and N. McCoy. 2004. Weed Coalition Arrangements in Addressing Provisional and Externality Problems in Invasive Weed Management. International Symposium on Society and Natural Resources. Keystone, Colorado.
- Amatya, P.D. And N. McCoy. 2003. Managing Invasive Weeds through Biological Control on Rangelands: A Provisional Dilemma. Presented at the 7th International Conference on Ecology and Management of Alien Plant Invasions. Fort Lauderdale, FL.
- McCoy, N., T. Watt, and P. Box. 2003. Cellular Automaton Based Cost-Effectiveness Analysis of Rangeland Weed Control. 2003. 7th International Rangelands Congress. Durban, South Africa.

PROFESSIONAL ACTIVITIES

- Adviser, Plant Health Australia's Rapid Assessment Toolkit for Plant Pest Threats Project.
- Rangeland Invasive Species Committee, Society for Range Management
- Finance Committee, Society for Range Management W192 Regional Research Project on Public Lands
- Search Committee, Assistant Professor in Political Science
- NSF Advance Grant: ENVIS faculty representative and Dual Career Committee
- Women and Gender Research Institute