BRUCE R. BEATTIE

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EDUCATION

- B.S., Agricultural Science (Agricultural Economics), Montana State University (1963)
- M.S., Agricultural Economics, Montana State University (1964)
- Ph.D., Agricultural Economics, Oregon State University (1970)
 - Fields: *Production and Resource Economics*
 - Dissertation: *Economic Efficiency and Distributive Consequences of Interbasin Water Transfers* (W.G. Brown & E.N. Castle, advisors)

EMPLOYMENT HISTORY

- Professor, Agricultural & Resource Economics, University of Arizona (1990–present); Interim Dept. Head (2001); Dept. Head (1990–96); Visiting Scholar, University of California, Davis (1999)
- Professor, Agricultural Economics & Economics, Montana State University (1979–90); Dept. Head (1979–84)
- Associate Professor, Agricultural Economics, Texas A&M University (1974–79)
- Associate Professor, Economics, Iowa State University (1973–74)
- Assistant Professor, Agricultural Economics, University of Kentucky (1969–73)

HONORS

- Alpha Zeta; Phi Kappa Phi; Gamma Sigma Delta
- American Agricultural Economics Association [AAEA] Award for Professional Excellence as exemplified by published research (1972)
- Director of Western Agricultural Economics Association [WAEA] (1976–78)
- WAEA Award for Professional Excellence as exemplified by published research (1979)
- President-Elect, President, and Past-President of WAEA (1980–83)
- Associate Editor of American Journal of Agricultural Economics (1986–91)
- WAEA Award for Professional Excellence as exemplified by extension program (1989)
- President-Elect, President, and Past-President of AAEA (1990–93)
- Named to Society of Centennial Alumni (one hundred most distinguished alumni since founding) Montana State University (1993)
- First President of National Association of Agricultural Economics Administrators (1993–94)
- Named a Fellow of AAEA (1997)

TEACHING AND ADVISING

Courses Taught

| Topic | Level | Times Taught | Student Rating* |
|---------------------------------|-----------|-----------------|--------------------|
| Production economics | Graduate | 32 | 4.7 |
| | Undergrad | 4 | 4.8 |
| Resource economics | Graduate | 2 | 4.4 |
| | Undergrad | 2 | 4.7 |
| Applied welfare economics | Graduate | 2 | † |
| Intro to mathematical economics | Graduate | 5 | 4.7 |
| Farm management | Undergrad | 2 | 4.6 |
| Intro to agricultural economics | Undergrad | 1 | 4.5 |
| Microeconomic principles | Undergrad | 6 | 4.6 |
| Intermediate microeconomics | Undergrad | 6 | 4.4 |
| Consumer economics | Graduate | 3 | 4.8 |
| | Undergrad | 2 | 4.4 |
| Economics of policy analysis | Undergrad | 4 | 4.6 |

^{*}Overall effectiveness rating of instructor. Mean score over all times taught. All ratings on (or converted to) 5-point scale, where 5 = excellent.

Advising

- Chair/member of numerous M.S. and Ph.D. advisory committees—Kentucky, Texas, Montana, & Arizona
- Undergraduate advisor—Iowa, Texas, & Montana
- Faculty advisor for Agricultural Economics Graduate Student Club—Kentucky
- Faculty advisor for Alpha Zeta—Montana
- Certifying Officer for undergraduate degree programs in agricultural business, agricultural economics, and economics—Montana

Recognition

- Have directed five theses/dissertations submitted by departments for AAEA and WAEA competitions (two received AAEA Honorable Mention)
- Outstanding Graduate Teacher Award by 1982-83 economics graduate student class—Montana

[†]Class size too small to assure student anonymity.

PUBLICATIONS

- Beattie, Bruce R. (1969). "The Role of the Economist." In: *Arid Lands in Perspective*, pp. 416–417. W.G. McGinnies and B.J. Goldman, eds. Tucson: The American Association for the Advancement of Science and The University of Arizona Press.
- Beattie, Bruce R. (1971). "Marginal Value Productivity of Water in Irrigated Agriculture: A Modification of the Ruttan Approach." In: *Proceedings of Western Agricultural Economics Association*, pp. 109–113.
- Beattie, Bruce R., E.N. Castle, W.G. Brown, and W.L. Griffin. (June 1971). *Economic Consequences of Interbasin Water Transfer*. Technical Bulletin 116, Agricultural Experiment Station, Oregon State University, Corvallis.
- Klindt, Thomas H., B.R. Beattie, and G.L. Bradford. (1972). "An Operational Definition of Economic Development: A False Hope." In: *Proceedings of Western Agricultural Economics Association*, pp. 140–143.
- Beattie, Bruce R., G.L. Bradford, and T.H. Klindt. (March 1972). "Applying Multiple Regression Techniques in Forecasting Area Economic Development." In: *Quantitative Techniques with Application to Rural Area Development*, pp. 93–116. G.L. Bradford and R.R. Saunders, eds. Proceedings of Southern Farm Management Research Committee (The Farm Foundation), Atlanta, November 1971.
- Beattie, Bruce R., T.H. Klindt, and G.L. Bradford. (April 1972). *Perfecting Methods for Predicting the Course of Rural Area Development: Part I: Toward a Definition of Economic Development and a Framework for Evaluating Model Efficacy.* Research Report 11, Agricultural Experiment Station, Department of Agricultural Economics, University of Kentucky, Lexington. 23 pp.
- Beattie, Bruce R. (July 1972). "Review of *Interbasin Transfers of Water: Economic Issues and Impacts* by C.W. Howe and K.W. Easter." *Natural Resources Journal* 12:473–476.
- Klindt, Thomas H., G.L. Bradford, and B.R. Beattie. (August 1972). Perfecting Methods for Predicting the Course of Rural Area Development: Part II: Using Simple Forecast Models to Predict Income in Selected Rural Areas of Kentucky. Research Report 13, Agricultural Experiment Station, Department of Agricultural Economics, University of Kentucky, Lexington. 25 pp.
- Walker, John N., G.B. Collins, and B.R. Beattie. (1973). "Professors." In: Conference Proceedings of University of Kentucky College of Agriculture, pp. 64–73.
- Beattie, Bruce R. (July 1973). "Review of Water Resource Management in Northern Mexico by R.G. Cummings." *Growth and Change: A Journal of Regional Development* 4:56.
- Bromley, Daniel W., and B.R. Beattie. (August 1973). "On the Incongruity of Program Objectives and Project Evaluation: An Example from the Reclamation Program." *American Journal of Agricultural Economics* 55:472–476. (Selected for inclusion in *Benefit-Cost and Policy Analysis*, pp. 144–148. Robert H. Haveman, et al., eds. Chicago: Aldine Publishing Co., 1974.)
- Beattie, Bruce R. (1974). "On the Symmetry of Stages of Production." In: *Proceedings of the Western Agricultural Economics Association*, pp. 106–109.
- Lacewell, Ronald D., J.M. Sprott, and B.R. Beattie. (August 1974). Value of Irrigation Water with Alternative Input Prices, Product Prices and Yield Levels: Texas High Plains and Lower Rio Grande Valley. Technical Report 58, Texas Water Resources Institute, Texas A&M University, College Station. 268 pp.

- Beattie, Bruce R., C.S. Thompson, and M. Boehlje. (December 1974). "Product Complementarity in Production: The By-Product Case." *Southern Journal of Agricultural Economics* 6(2):161–165.
- Brown, William G., and B.R. Beattie. (February 1975). "Improving Estimates of Economic Parameters by Use of Ridge Regression with Production Function Applications." *American Journal of Agricultural Economics* 57(1):21–32.
- Sprott, J. Michael, R.D. Lacewell, and B.R. Beattie. (April 1975). Value of Irrigation Water with Alternative Input Prices, Product Prices and Yield Levels: Texas Coastal Bend, Cross Timbers, Deep East, Edwards Aquifer, El Paso, Gulf Coast, Lower South Central, Rolling Plains, Trans Pecos, and Winter Garden Regions. Technical Report 59, Texas Water Resources Institute, Texas A&M University, College Station. 264 pp.
- Coffman, William S., B.R. Beattie, L.L. Jones, and J.W. Adams. (April 1976). *An Interindustry Model of El Paso and Hudspeth Counties, Texas*. Technical Report 69, Texas Water Resources Institute, Texas A&M University, College Station. 48 pp.
- Levi, Donald R., and B.R. Beattie. (May 1976). "Economics as an Input in Environmental Law: Anderson v. Atlas Chemical Industries, Inc." *Land Economics* 52:235–240. (Also in Proceedings of Western Agricultural Economics Association, 1975, pp. 147–149.)
- Williford, George H., B.R. Beattie, and R.D. Lacewell. (June 1976). *The Impact of the Declining Groundwater Supply in the Northern High Plains of Texas and Oklahoma on Expenditures for Community Services*. Technical Report 71, Texas Water Resources Institute, Texas A&M University, College Station. 36 pp.
- Beattie, Bruce R. (October 1976). "Economics and the Future of Irrigated Agriculture in Texas." In: *Proceedings of a Conference on Future Water Use in Texas*, pp. 101–115. Co-sponsored by the Texas Water Conservation Association and the Texas Water Resources Institute, Texas A&M University, College Station.
- Shumway, C. Richard, H. Talpaz, and B.R. Beattie. (April 1977). *Resource Allocation in U.S. Agriculture:*Application of an Improved Polynomial Lag Estimation Procedure. Technical Report 77–6, Texas Agricultural Experiment Station, Department of Agricultural Economics, Texas A&M University, College Station. 34 pp.
- Lansford, Robert R., S. Ben-David, F. Roach, B.J. Creel, and B.R. Beattie. (July 1977). *Regional Water Management with Full Consumptive Use.* WRRI Report 088, New Mexico Water Resources Research Institute, New Mexico State University, Las Cruces. 112 pp.
- Griffin, Wade L., and B.R. Beattie. (August 1977). *Mexico's 200-Mile Offshore Fishery Zone: Its Economic Impact on the U.S. Gulf of Mexico Shrimp Fishery.* TAMU-SG-77-210, Center for Marine Resources, Texas A&M University, College Station. 27 pp.
- Shumway, C. Richard, B.R. Beattie, and H. Talpaz. (November 1977). "Optimum Resource Allocation in U.S. Agriculture: Comment." *American Journal of Agricultural Economics* 59(4):778–783.
- Shumway, C. Richard, B.R. Beattie, and H. Talpaz. (November 1977). "Optimum Resource Allocation in U.S. Agriculture: Rejoinder." *American Journal of Agricultural Economics* 59(4):787.
- Griffin, Wade L., and B.R. Beattie. (February 1978). "Economic Impact of Mexico's 200-Mile Offshore Fishing Zone on the U.S. Gulf of Mexico Shrimp Fishery." *Land Economics* 54(1):27–38.
- Foster, Henry S., Jr., and B.R. Beattie. (May 1978). *A Cross-Sectional Investigation of the Determinants of Urban Residential Water Demand in the United States*, 1960 and 1970. Technical Report 86, Texas Water Resources Institute, Texas A&M University, College Station. 54 pp.

- Foster, Henry S., and B.R. Beattie. (February 1979). "Urban Residential Demand for Water in the United States." *Land Economics* 55(1):43–58.
- Frank, Michael D., and B.R. Beattie. (March 1979). *The Economic Value of Irrigation Water in the Western United States: An Application of Ridge Regression*. Technical Report 99, Texas Water Resources Institute, Texas A&M University, College Station. 131 pp.
- Beattie, Bruce R., M.D. Frank, and R.D. Lacewell. (1979). "The Economic Value of Irrigation Water in the Western United States." In: *Legal, Institutional and Social Aspects of Irrigation and Drainage and Water Resources Planning and Management*, pp. 572–581. Conference proceedings: Irrigation and Drainage Division and Water Resources Planning and Management Division, American Society of Civil Engineers.
- Beattie, Bruce R., and H.S. Foster, Jr. (1979). "How Much Water Do We Need? How Much Are You Willing to Pay? In: *Annual Conference Proceedings of the American Water Works Association*, Part 1, pp. 67–77.
- Shumway, C. Richard, H. Talpaz, and B.R. Beattie. (August 1979). "The Factor Share Approach to Production Function 'Estimation': Actual or Estimated Equilibrium Shares?" *American Journal of Agricultural Economics* 61(3):561–564.
- Beattie, Bruce R., and H.S. Foster, Jr. (August 1980). "Can Prices Tame the Inflationary Tiger?" *Journal of the American Water Works Association* 72(8):441–445. (The *Journal* editor changed the title without our knowledge from "Inflation and the Demand for Residential Water Supplies.")
- Beattie, Bruce R., and W.L. Griffin. (December 1980). "Production Function, Cost of Production and Associated Optimality Linkages: A Textbook Supplement." *Southern Journal of Agricultural Economics* 12(2):153–155.
- Foster, Henry S., Jr., and B.R. Beattie. (May 1981). "Urban Residential Demand for Water in the United States: Reply." *Land Economics* 57(2):257–265.
- Foster, Henry S., Jr., and B.R. Beattie. (November 1981). "On the Specification of Price in Studies of Consumer Demand under Block Price Scheduling." *Land Economics* 57(4):624–629.
- Beattie, Bruce R. (December 1981). "Irrigated Agriculture and the Great Plains: Problems and Policy Alternatives." *Western Journal of Agricultural Economics* 6(2):289–299.
- Beattie, Bruce R. (1982). "Discussion of Irrigation and the Adequacy of Agricultural Land." In: *The Cropland Crisis: Myth or Reality?* pp. 160–163. Pierre R. Crosson, ed. Baltimore: Johns Hopkins University Press (for Resources for the Future).
- Fortenbery, T. Randall, G.L. Cramer, and B.R. Beattie. (December 1982). *Highways and Railroads in Montana: Problems and Opportunities*. Special Report, Department of Agricultural Economics & Economics, Montana State University, Bozeman. 22 pp.
- Frank, Michael D., B.R. Beattie, and O.R. Burt. (April 1983). *Irrigation Water Response Function Estimation: An Improved Ridge Regression Methodology.* Technical Completion Report No. 128, Montana Water Resources Research Center, Montana State University, Bozeman. 26 pp.
- Beattie, Bruce R. (November 1983). "Review of *Resource and Environmental Effects of U.S. Agriculture* by Pierre R. Crosson and Sterling Brubaker." *American Journal of Agricultural Economics* 65(4):838–839.

- Beattie, Bruce R. (December 1983). "Ten Commandments for Agricultural Economics (and Perhaps Other) Administrators." *Western Journal of Agricultural Economics* 8(2):209–214.
- Beattie, Bruce R., and C.R. Taylor. (1985). *The Economics of Production*. New York: John Wiley & Sons. 258 pp. (Reprint edition in 1993 by Krieger Publishing Co., Malabar, Florida.)
- Beattie, Bruce R., and Merle D. Faminow. (February 1985). "On the Impact of an Increase in the Price Received for Wheat and Barley on Montana Farm and Off-Farm Income." *Big Sky Economics*, pp. 1–5. Cooperative Extension Service, Montana State University, Bozeman. (Subsequently appeared in *Montana Farmer-Stockman*, 2 May 1985, pp. 18–19.)
- McConnen, Richard J., L. Pratt, and B.R. Beattie. (March 1985). "Montana Agriculture." In: *Economic Conditions in Montana*, 1984, pp. 57–77. Montana Department of Commerce, Helena.
- Frank, Michael D., B.R. Beattie, and C.R. Taylor. (January 1986). *An Econometric Model of Crop Acreage Response in Montana*. Technical Completion Report No. 152, Montana Water Resources Research Center, Montana State University, Bozeman. 54 pp.
- Young, Douglas J., and B.R. Beattie. (Summer 1986). "How Regressive Is a Sales Tax?" *Montana Business Quarterly* 24(2):9–13.
- Judd, Frederick A., B.R. Beattie, J.T. LaFrance, and D.J. Young. (Summer 1987). "Are Retail Sales Taxes Regressive?" *Montana AgResearch* 4(2):6–10.
- Beattie, Bruce R., and M.J. Watts. (December 1987). "The Proper Preeminent Role of Parent Disciplines and Learned Societies in Setting the Agenda at Land Grant Universities." *Western Journal of Agricultural Economics* 12(2):95–103.
- Burt, Oscar R., M.D. Frank, and B.R. Beattie. (December 1987). "Prior Information and Heuristic Ridge Regression for Production Function Estimation." *Western Journal of Agricultural Economics* 12(2):135–143.
- Beattie, Bruce R. (January 1988). "Asymmetric Stages, Ridgelines, and the Economic Region for the Two-Factor Production Function Model." *Southern Economic Journal* 54(3):562–571.
- Beattie, Bruce R., and D.J. Young. (June 1988). "Taxes and Business Climate." *Big Sky Economics*, pp. 3–6. Extension Service, Montana State University, Bozeman.
- Beattie, Bruce R., and D.J. Young. (July 1988). *Montana Taxation and Expenditures: Issues and Options*. Monograph, Burton K. Wheeler Center, Montana State University, Bozeman. 42 pp.
- Young, Douglas J., and B.R. Beattie. (September 1988). "School Finance Equalization in Montana—Part 1: How Does Montana's Method of School Finance Result in Unequal Expenditures per Pupil?" *Big Sky Economics*, pp. 2–4. Extension Service, Montana State University, Bozeman.
- Young, Douglas J., and B.R. Beattie. (December 1988). "School Finance Equalization in Montana—Part 2: Legislative Options." *Big Sky Economics*, 4 pp. Extension Service, Montana State University, Bozeman.
- Beattie, Bruce R., and D.J. Young. (Winter 1988). "Montana Taxation and Expenditures: Issues, Concerns and Observations." *Montana Business Quarterly* 26(4):16–23. (Excerpted from *Montana Taxation and Expenditures: Issues and Options* above.)

- Beattie, Bruce R., and D.J. Young. (January 1989). "Taxes and Spending in Montana." *Montana Farmer-Stockman*, pp. 14–15. (Excerpted from *Montana Taxation and Expenditures: Issues and Options* above.)
- Beattie, Bruce R., and D.J. Young. (Winter 1989). "How Progressive Is Montana's Personal Income Tax?" *Montana AgResearch* 5(1):1–5.
- Beattie, Bruce R., and D.J. Young. (April 1989). "On the Sales Tax Debate." Montana Farm Bureau Spokesman.
- Frank, Michael D., B.R. Beattie, and M.E. Embleton. (August 1990). "A Comparison of Alternative Production Function Models." *American Journal of Agricultural Economics* 72(3):597–603.
- Beattie, Bruce R. (December 1991). "Some Almost-Ideal Remedies for Healing Land Grant Universities." *American Journal of Agricultural Economics* 73(5):1307–1321.
- Beattie, Bruce R. (January/February 1992). "North American Studies, Wet Land Institutes and Centers for Policy Reform: Academic Albatrosses or Panaceas?" *AAEA Newsletter* 14(1):1–2.
- Armbruster, Walter J., and B.R. Beattie. (May 1992). "Bridging National Boundaries in Academic Agribusiness Research." In: *Evolution of the Food Chain in a Changing International Environment*, pp. 256–262. (Proceedings of IAMA Symposium II, Oxford, England, sponsored by the International Agribusiness Management Association.)
- Beattie, Bruce R. (May/June 1992). "The Second of Two Stories: Agribusiness and Agricultural Economics." *AAEA Newsletter* 14(3):1–3.
- Beattie, Bruce R. (Fourth Quarter 1992). "Re: Bromley's 'Vested Interests." Choices 7(4):39.
- Beattie, Bruce R., and J.P. Leones. (February 1993). "Economic Multipliers: Appropriate Uses and Common Abuses." *Arizona Farmer-Stockman*, pp. 8–9.
- Beattie, Bruce R., and J.P. Leones. (June 1993). "Does Arizona Agriculture Pale by Comparison?" *Arizona Farm Bureau News* 46(12):1 & 4.
- Beattie, Bruce R. (July 1993). "On the Economic Region of Production: A Review and Geometric Interpretation." In: *Lectures in Economics*, pp. 1–18. (Proceedings of Symposium in Honor of William Galen Brown). University Graduate Faculty of Economics, Oregon State University, Corvallis.
- Beattie, Bruce R., and J.P. Leones. (July 1993). "Uses and Abuses of Economic Multipliers." *Community Development Issues* 1(2):1–5. Department of Agricultural & Resource Economics, University of Arizona, Tucson. (Expanded version of *Arizona Farmer-Stockman* article above.)
- Beattie, Bruce R., and J.P. Leones. (September 1993). "How Important Is Arizona's Agriculture?" *Arizona Farmer*, pp. 8–9. (Revised version of *Arizona Farm Bureau News* article above.)
- Beattie, Bruce R., and J.P. Leones. (June 1994). "On the Importance of Arizona's Agriculture." Extension Report No. 30, Department of Agricultural & Resource Economics, University of Arizona, Tucson. 9 pp. (Expanded version of *Arizona Farmer* article above.)
- Beattie, Bruce R. (October 1995). *Bureaucratic Behavior and Rent Seeking in the Ivory Tower (Including Agricultural Economics)*. Benjamin H. Hibbard Memorial Lecture Series, Department of Agricultural Economics, University of Wisconsin, Madison. 23 pp.

- Beattie, Bruce R. (November 1995). "Review of Science Under Scarcity: Principles and Practice for Agricultural Research Evaluation and Priority Setting by J.M. Alston, G.W. Norton and P.G. Pardey." American Journal of Agricultural Economics 77(4):1064–1065.
- Beattie, Bruce R., and Harry Ayer. (July/August 1996). "An Expansive Versus Fixed-Pie Agenda for AAEA." *AAEA Newsletter* 18(4):6–7.
- Beattie, Bruce R. (March 1997). "Karnal Bunt: USDA Compares Apples to Oranges." *Arizona Farm Bureau News* 50(5):4.
- Beattie, Bruce R., and R. Innes. (Second Quarter 1997). "Federal Funding of Agricultural Research, Education, and Extension in the Land Grant Universities: An Economic Perspective." *Choices* 12(2):8–12.
- Beattie, Bruce R., and R. Innes. (Fourth Quarter 1997). "Federal Funding in the Land Grant Universities: Authors' Response." *Choices* 12(4):40–41.
- Beattie, Bruce R. (February 1998). "Maintaining Market Niche in an Uncertain Political Environment." *Community Development Issues* 5(1):4–5. Department of Agricultural and Resource Economics, University of Arizona, Tucson.
- Beattie, Bruce R. and D.R. Biggerstaff. (Second Quarter 1999). "Karnal Bunt: A Wimp of a Disease...But an Irresistible Political Opportunity." *Choices* 14(2):4–8. (Posted by invitation on USDA/APHIS Karnal bunt website, http://www.aphis.usda.gov/karnalbunt/)
- Beattie, Bruce R. (2001). "The 'Disappearance' of Agricultural Land: Fact or Fiction?" In: *Agriculture and the Environment: Searching for Greener Pastures*, T.L. Anderson and B. Yandle, eds. Stanford: Hoover Press.
- Beattie, Bruce R., M.T. Holt, and M.J. Watts. (Spring/Summer 2002). "On the Function Coefficient, Euler's Theorem, and Homogeneity in Production Theory." *Review of Agricultural Economics* 24(1):240–249.
- Beattie, Bruce R. and J.R. Mortensen. (2002). A Story of Success! U.S. and Arizona Agricultural Productivity. Cardon Endowment Brochure, Department of Agricultural and Resource Econoics, University of Arizona, Tucson. 7pp.
- Mortenson, Jorgen R., and B.R. Beattie. (March 2003). *Participant Expenditures at Arizona-Based Horse Shows*, 2001. Cardon Endowment Report, Department of Agricultural and Resource Economics, University of Arizona, Tucson. 7pp.
- Beattie, Bruce R. (Fall 2003). "Doing More With Less: A Doubtful Proposition." *Arizona Review* 1(2):3–5. Department of Agricultural and Resource Economics, University of Arizona, Tucson.
- Mortensen, Jorgen R., and B.R. Beattie. (December 2003). "Kan valg af udbyttefunktion påvirke fastsættelse af normer for N-tilførsel i Danmark?" *Tidsskrift for Landøkonomi* 190(4):338-350. (English translation of original Danish: "Does Choice of Response Function Matter in Setting Maximum Allowable N-Application Rates in Danish Agriculture." *Journal of Agricultural Economics*. (Available at http://ag.arizona.edu/arec/pubs/researchpapers.html)
- Beattie, Bruce R. (Fall 2004). "Uses and Abuses of Economic Multipliers: A Reprise." *Arizona Review* 2(2):6–7, 13. Department of Agricultural and Resource Economics, University of Arizona, Tucson.

- Beattie, Bruce R., J.R. Mortensen, and L. Knudsen. (December 2004). "Det fleksible trediegradspolynomium og produktionsfunktioner med plateau." *Tidsskrift for Landøkonomi* 191(4):55–64. (English translation of original Danish: "The Flexible Cubic Polynomial and Plateau Production Functions." *Journal of Agricultural Economics*. (Available at http://ag.arizona.edu/arec/pubs/researchpapers.html)
- Beattie, Bruce R. (2005). "Review of *What's Economics Worth?: Valuing Policy Research* by P.G. Pardey and V.H. Smith." *Agricultural Economics* 33:366–367.
- Beattie, Bruce R. and J.T. LaFrance. (2006). "The Law of Demand Versus Diminishing Marginal Utility." *Review of Agricultural Economics* 28(2):263–271.
- Beattie, Bruce R. (2006). On Doing More with Less and Other Messages for University Administrators: Collected Papers of a Former Insider. Tucson: Department of Agricultural and Resource Economics, University of Arizona. 101 pp.
- Beattie, Bruce R., and J.R. Mortensen. (2007). "The Importance of Agriculture to the Arizona Economy." *Arizona Review* 5(1):6–8, 20. Department of Agricultural and Resource Economics, University of Arizona, Tucson.
- Beattie, Bruce R., C.R. Taylor, and M.J. Watts. (2009). *The Economics of Production*, 2nd edition. Malabar, FL: Krieger Publishing. 299pp.
- Beattie, Bruce R. (2011). Readings in Production and Consumption Economics: Collected Papers of B.R. Beattie and Friends. Tucson: Department of Agricultural and Resource Economics, University of Arizona. 85 pp. [Edited volume includes five previously published and three original papers. Original papers include: "Harmonizing Elasticity Concepts for Intermediate-Level Students"; "Production Functions and Cost Curves: Why the Preoccupation with U-shaped Marginal and Average Variable Cost?" (with Almarri); and "The Law of Demand Versus Diminishing Marginal Utility: Addendum" (with LaFrance).]
- Watts, Myles J., J. Atwood, and B.R. Beattie. (2015). "Water Degradation Implications When Whole-Farm Irrigation Water Is Binding." *Water Resources and Economics* 6(2015):3–22.
- Beattie, Bruce R. and S. Aradhyula. (2015). "A Note on Threshold Factor Level(s) and Stone-Geary Technology." *Journal of Agricultural and Applied Economics* 47(4):482–493.

UNPUBLISHED PAPERS AND REPORTS

- Taylor, C. Robert, and B.R. Beattie. (January 1982). *An Assessment of Methods to Project Economic Demand for USFS Range Outputs*. 24 pp. (Project completion report submitted to the Intermountain Forest and Range Experiment Station, USDA/Forest Service.)
- Beattie, Bruce R., and J.B. Johnson. (1984). *Non-fee Costs of Grazing on Public vs. Privately Owned or Leased Rangeland in ERS's Region W-3: What Do the Available Data Reveal?* 12 pp. (Paper prepared at the request of the Montana Public Lands Council.)
- Frank, Michael D., B.R. Beattie, and C.R. Taylor. (November 1984). *Economics of Water Marketing Options for Montana*. 21 pp. (Technical completion report submitted to the Montana Environmental Quality Council and the Montana Water Resources Research Center, Montana State University, Bozeman.)
- Watts, Myles J., and B.R. Beattie. (January 1987). *Comments on Montana Tax Reform.* 11 pp. (Paper prepared at the request of the Montana Joint House and Senate Taxation Committee.)

- Beattie, Bruce R. (August 1991). "Comments on *A New Look at the Economics of Federal Grazing Policy.*" 4 pp. (Comments on a paper presented by B. Delworth Gardner at Range and Grazing Land Reform Session of Mont Pelerin Regional Meeting, Big Sky, Montana.)
- Beattie, Bruce R. (March 1993). "The Importance of Agriculture to Montana's Economy and of Montana State University to Montana Agriculture." 10 pp. (Paper presented at College of Agriculture Centennial Celebration, Montana State University, Bozeman.)
- Beattie, Bruce R. (November 1996). *Economic Impact on U.S. Wheat Producers and Consumers Due to Karnal Bunt Quarantine Restrictions on Wheat Seed Breeding in the Desert Southwest.* 20 pp. (Project completion report submitted to Barkley Seed, Inc., Yuma, Arizona. Excerpts from this paper formed the basis of an article, "Politics Is Driving the Karnal Bunt Problem," appearing in the *Arizona Farm Bureau News* 50(5):1.)
- Beattie, Bruce R. (February 1998). *Implications of Long-Term Trends in Real Prices, Yields, and Real Costs of Production for Profitable Production of Cotton and Other Field Crops in Central Arizona.* 14 pp. (Project completion report submitted to Calcot, Ltd., Bakersfield, California.)
- Beattie, Bruce R., T. Teegerstrom, E. Monke, and J. Mortensen. (October 2001). "A Partial Economic Impact Analysis of Arizona's Horse Industry." 37 pp. (Project completion report submitted to Arizona State Horseman's Association, Phoenix, Arizona.)

WORKING PAPERS

Beattie, Bruce R., C.R. Taylor, and M.J. Watts. 3rd ed. of *The Economics of Production* (Revision in progress).

SUPPLEMENT TO CURRICULUM VITAE

Bruce R. Beattie

PROFESSIONAL AFFILIATIONS AND SERVICE

Activities in service to professional associations, professional journals, and departments and faculties at other universities.

PUBLIC SERVICE / OUTREACH

Activities in service to noneconomist/nonuniversity audiences in addition to written works noted under PUBLICATIONS.

UNIVERSITY SERVICE AND GRANTSMANSHIP

Activities in service to employing institution.

PROFESSIONAL AFFILIATIONS AND SERVICE

American Agricultural Economics Association (AAEA)

- Chair of plenary or invited paper session at annual meeting (1979, 1982, 1986, 1992)
- Member of distinguished policy contribution award committee (1985, 1986); Chair (1987)
- Member of selected papers review committee (1986, 1998, 2006, 2008)
- Member of nominations committee (1986–87, 1998-00) Chair (1992)
- Associate Editor of American Journal of Agricultural Economics (1986–91)
- Member of professional publication of enduring quality award committee (1990–92)
- Executive Board (1990–93)
- President (1991–92)
- Member of Foundation Board (1992–93)
- Chair of Waugh Memorial Lecture selection committee (1992)
- Member fellows selection committee (1992–93, 2009–present)
- AAEA representative at 1992 and 1993 meetings of Board of Agriculture—National Research Council of National Academy of Sciences (member of 1993 program steering committee)
- Member of quality of communication award committee (1998–00)

Western Agricultural Economics Association (WAEA)

- Member of Council (1974–78)
- Chair of plenary or invited paper session at annual meeting (1975, 1980, 1994)
- Director (1976–78)
- General chair of awards program (1978, 1988)
- Editorial Council of Western Journal of Agricultural Economics (1979–80)
- Member of published research award committee (1980, 1985, 2001); Chair (1986, 1988)
- Invited papers (1981, keynote address; 1983; 1987, keynote address)
- President (1981–82)
- Chair of nominating committee (1983)
- Member of extension program award committee (1990)
- Wrap-up speaker at new academic professionals conference (1998, 2001)

Reviewer

- American Journal of Agricultural Economics
- ◆ Journal of Agricultural and Resource Economics ◆ Choices
- Review of Agricultural Economics
- ◆ Land Economics
- Journal of the American Water Resources Association

Invited Lectures

• University of Montana (School of Forestry); Clemson University (Departments of Agricultural Economics & Economics); Texas A&M (Department of Agricultural Economics and Water Resources Institute Conference); American Water Works Association (Southwest Division); University of Nebraska (College of Agriculture Administrators Conference); University of Missouri (Department of Agricultural Economics); Montana State University (Wheeler Conference); Oregon State University (Department of Agricultural & Resource Economics—W.G. Brown Retirement Symposium); NCA-12 (North Central Agricultural Economics Department Heads); Viterbo University, Italy (Department of Economic Science & Estimation); Hibbard Lecture, University of Wisconsin (Department of Agricultural Economics); University of Arizona (Department of Plant Sciences).

Other

- Member of review team for agricultural and resource economics programs at Oregon State University (1984);
 Kansas State University (1986); University of Wyoming (1986); The University of Arizona (1987); University of Connecticut (1989); Auburn University (1990); Washington State University (1993); New Mexico State University (1995); University of Wisconsin (1996); Kansas State University (1996); University of Guelph (2002)
- Consultant to agricultural economics departments at University of Nevada, Reno (1989); Utah State University (1991)
- Frequent external P&T referee (48 cases; 1979–present)
- Member of National Agricultural Economics Administrators Association (1990–96); President (1993–94)
- Member of Western Agricultural Economics Council (1979–84; 1990–96)
- Member of Western Rural Development Center Advisory Committee (1993–96)
- Chair of International Food Policy Research Institute Essay Awards Committee (1996)
- Member of CSREES review panel for Fund for Rural America (1997)

PUBLIC SERVICE / OUTREACH

National

- Member of assessment team on Water-Related Technologies for Sustaining Agriculture in U.S. Arid and Semiarid Lands, 1981–82, Office of Technology Assessment
- Member of university review team for 1985 Federal Grazing Fee Review and Evaluation, Bureau of Land Management and Forest Service
- Invited paper session discussant at 1986 National Association of Wheat Growers' Summer Leadership Conference
- Member of Karnal Bunt Compensation Task Force, 1996, USDA, Office of the Chief Economist
- Member of Political Economy Research Center Agriculture Project Committee, 2000–2001

State

- Member of Governor's Ad Hoc Committee on Agriculture—Montana
- Member of Governor's Montana University System Economic Research Committee
- Member of Montana Bankers Association Agricultural Credit Conference Committee
- Member of Water Storage Finance Steering Committee—Montana
- Ex officio member of Arizona Farm Bureau Water Policy Committee
- Member of Arizona Department of Agriculture Karnal Bunt Subcommittee (Economic Panel Chair)
- Many in-state lay audience presentations—Montana & Arizona
- Have written extensively for lay-audiences (see PUBLICATIONS)

UNIVERSITY SERVICE AND GRANTSMANSHIP

University

- Member of Water Resources Institute Advisory Committee—Kentucky
- Chair of Ad Hoc Committee for Promoting Social Science Research on Water Problems—Kentucky
- Member of University Department Heads Executive Committee—Montana
- Chair of Letters & Science Dean's Search Committee—Montana
- Member of Core Curriculum Implementation Committee—Montana
- Senior Associate of Burton K. Wheeler Center—Montana
- Member of University Faculty Salary Review Committee—Montana
- Member of University Professional Employees Salary Review Committee—Montana
- Member of University Accreditation Steering Committee (Finance Subcommittee Chair)—Montana
- Member of Extended Activities Study Group—Montana
- Member of Ad Hoc P&T Commitee—Arizona

College

- Department Head in College of Agriculture and College of Letters & Science—Montana
- Member of Montana Agricultural Experiment Station Associate Director Search Committee
- Member of Editorial Board of Montana AgResearch
- Member of College of Agriculture Semester-Conversion Curriculum Committee—Montana
- Member of College of Agriculture Strategic Planning Committee—Montana
- Department Head in College of Agriculture—Arizona
- Member of Family & Consumer Resources School Director and Faculty Search Committees (various)— Arizona
- Member of College of Agriculture Strategic Planning and Budget Committee—Arizona
- Member of 1993 Land & People Conference Planning Committee—Arizona
- Chair of College of Agriculture Department Heads—Arizona
- Member of Cooperative Extension Program Review Team—Arizona
- Chair of Department of Animal Sciences Ad Hoc Resource Allocation Committee—Arizona
- Member of International Ag Program Office Reconfiguration/Elimination Committee—Arizona
- Member of College of Agriculture P&T Review Committee (two three-year terms)—Arizona
- Member of Animal Science Endowed Chair Search Committee—Arizona
- Member of Water Resources Research Associate Director Search Committee—Arizona

Department

- Chair of Project Review Committee—Kentucky
- Member of Research Publication Review Committee—Kentucky
- Member of Graduate Seminar Committee—Kentucky
- Member of Graduate Program and Admissions Committee—Kentucky
- Chair of Graduate Policy Committee—Texas
- Chair of Economic Theory Preliminary Committee (for agricultural economics)—Texas
- Member of Research Advisory Committee—Texas
- Head of Department—Montana
- Chair of Department Head Search Committee—Montana & Arizona
- Member/Chair of Department Head Advisory and P & T / Merit Evaluation Committees (various)— Montana & Arizona
- Certifying Officer for Majors in Agricultural Economics, Agricultural Business & Economics—Montana
- Member of Ad Hoc Extension Economics Integration Committee—Montana
- Member of Resident Instruction Committee—Montana & Arizona
- Head of Department—Arizona
- Member of Hillman Endowment for Exchange of Scholars Committee—Arizona
- Chair of Cardon Chair Search Committee—Arizona
- Interim Manager of Cardon Chair Endowment Proceeds—Arizona
- Member/Chair Faculty Search Committees (various)—Montana & Arizona

Sponsored Research

• Recipient or co-recipient of 14 extramural-sponsored grants and contracts—Texas, Montana & Arizona (Sources: Texas Water Development Board; U.S. Department of Interior; U.S. Department of Agriculture; Texas Water Resources Institute; Resources for the Future; Montana Department of Natural Resources and Conservation; Montana Water Resources Research Center; Burton K. Wheeler Center; Arizona Department of Water Resources; Arizona Horse Lovers Foundation)