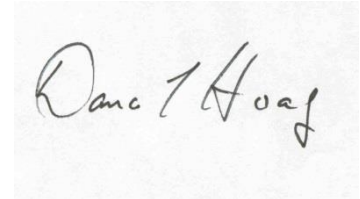

VITA

PERSONAL

NAME: Dana LK Hoag TELEPHONE: (970) 491-5549 (Bsns)

ADDRESS: Department of Agricultural and Resource Economics
Colorado State University
Ft Collins, CO 80523-1172



EDUCATION

Washington State University - Agricultural Economics, Ph.D. 1984
Colorado State University - Agricultural Economics, M.S. 1981
Colorado State University - Farm and Ranch Management, B.S. 1980

EXPERIENCE AND PROFESSIONAL POSITIONS

August 1993 to present: Associate Professor to 1995, then Professor, 50% Research, 50% teaching, Department of Agricultural and Resource Economics, Colorado State University.

October 1984 to August 1993: Associate Professor, 65 percent Extension, 15 percent teaching, and 20 percent Research, Department of Agricultural and Resource Economics, North Carolina State University.

September 1988 to September 1989: Agricultural Resource Policy Analyst, Environmental Protection Agency, Office of Policy, Planning and Evaluation, Environmental Resources Branch, Washington, D.C.

SUMMARY

HONORS AND AWARDS: **Teaching :** 1) Board of Governors of the Colorado State University System, Excellence in Undergraduate Teaching Award, 2003, 2) 2002 Meritorious Faculty Award, Colorado Farm Bureau, 3) Teaching Award of Merit, National Association of Colleges and Teachers of Agriculture, 1998, 4) Charles N. Shepardson Meritorious Teaching Award, CSU, 1998. **Research:** 1) Editor and Founder: Western Economic Forum, 2) Outstanding Journal of Agricultural and Applied Economics Publication Award, Southern Agricultural Economics Association, 3) Article chosen for Economics of Water Resources, International Library of Critical Writings in Economics, 2008 (Theory and practices of pollution credit trading in water quality management). **Extension:** 1) 2006 Distinguished Cooperative Extension Award, Colorado State University Alumni Association, 2) Western Regional Team

Award by Epsilon Sigma Phi 3) Cooperative Extension Team Award for RightRisk, Colorado State University, 2004,

RESEARCH

Graduate Committees	Publications/ Presentations	Grants/Funding
Ph.D. Chaired 14 Ph.D. Active 6 Ph.D. Member 29 MS Chaired 47 MS Other 22	Refereed Journals published/accepted 112 Books 7, Book Chapters 17 Other Publications 170 Invited Presentations 74 Professional Presentations 268	Grants 88 \$31 million \$43 million (2016 dollars)

PROFESSIONAL ACTIVITIES, ACCOMPLISHMENTS and RECOGNITIONS

1. Undergraduate curriculum (department and college), 2015- present
2. Graduate Committee for the department, 1993-present
3. Chair Blue Ribbon Committee on Profitability and Competitiveness, Council on Food, Agriculture and Resource Economics 2012 to present
4. Co-editor: Journal of Risk Analysis and Crises Response
5. Faculty in the Graduate Degree Program in Ecology, CSU
6. Faculty in the Western Center for Integrated Resource Management
7. Committee member: International Center for Financial and Agricultural Risk Management
8. Chair Blue Ribbon Committee on Production and Innovation, Council on Food, Agriculture and Resource Economics 2012 to present
9. Sabbatical leave, Tecnologico de Costa Rica University in Cartago Spring, 2014
10. IGERT Faculty advisor
11. GDPE Affiliate Faculty
12. Chosen as member of ICFARM
13. Excellent Paper Selection Committee, Risk Analysis Council of China Association for Disaster Prevention, 2012.
14. Invited to Teach In the Summer China Teaching program, summer 2013
15. Invited Speaker: Master Teacher Initiative Workshop, Institute for Learning and Teaching, Colorado State University, April, 2012.
16. Program Committee for RACR 2013 (The 4th International Conference on Risk Analysis and Crisis Response, August 27-29, 2013, Istanbul, Turkey).
17. Western Distinguished Scholar, Western Agricultural Economics Association, 2009.
18. Article chosen for Economics of Water Resources, International Library of Critical Writings in Economics, 2008 (Theory and practices of pollution credit trading in water quality management)
19. Board of Directors, Council on Food, Agriculture and Resource Economics 2007-2010
20. Selected by students as “Favorite Faculty or Staff Member”, 2009..
21. Outstanding Faculty Member, CSU Greek Community, 2006
22. 2006 Distinguished Academic Advisor Award, Honors Program, Colorado State University
23. Distinguished Cooperative Extension Award, Colorado State University Alumni Association 2006
24. Western Regional Team Award by Epsilon Sigma Phi (Zeta Chapter). With Tranel, Sharp, Kaan And Parsons, 2005
25. President, Western Association of Agricultural Economists, 2005/2006
26. Undergraduate teaching award, over ten years, Western Association of Agricultural Economists, 2004
27. Cooperative Extension Team Award for RightRisk, Colorado State University, 2004
28. State Team Award to Colorado for “The RightRisk Team,” Epsilon Sigma Phi Cooperative Extension Professionals’ Organization, 2004

29. Board of Governors of the Colorado State University System, Excellence in Undergraduate Teaching Award, 2003
30. Gamma Sigma Delta Faculty Award of Merit, 2003.
31. Vice President of the Western Association of Agricultural Economists, 2003/2004
32. Meritorious Faculty Award from the Colorado Farm Bureau, 2002
33. Editorial Board (and originator) Ecological Indicators: Integrating Monitoring, Assessment and Management (Elsevier journal) (Current)
34. Editor and Founder: Western Economic Forum (Current)
35. Elected to the board of Directors, Western Agricultural Economics Association, 2000-2002.
36. Elected as At large representative from the Ag College to the Faculty Council, 2001
37. Served on the Outstanding Extension Awards Committee, Western Agricultural Economics Association, 2001.
38. Agribusiness Association Presidents Award, 1999
39. "Apple Polishing dinner" for agricultural fraternity
40. For the Agribusiness Association (Club Advisor): Innovative Idea for a Club Award, American Association of Agricultural Economics, 1999
41. Teaching Award of Merit, National Association of Colleges and Teachers of Agriculture, 1998
42. Charles N. Shepardson Meritorious Teaching Award, CSU, 1998
43. Nominated for the NACTA/Charles N. Shepardson Meritorious Teaching Award, 1997
44. Selected to review research program in agricultural economics and policy at the University of Natal, South Africa, 1997
45. Alpha Gamma Rho Fraternity Apple Polishing Dinner to honor our favorite professors, 1997
46. Hoag, D. with S. Liu and G. Carlson. 1996. Winner of the Outstanding Journal of Agricultural and Applied Economics Publication Award, Southern Agricultural Economics Association, for the paper "Trade-Off Analysis of Herbicide Withdrawals on Agricultural Production and Groundwater Quality," 1995.
47. Board of Directors, Resource Policy Consortium, 1992/93.
48. Chairman, Resource Policy Consortium, 1991/92.
49. Board of Directors of the North Carolina Association of Cooperative Extension specialists, 1987/1992.
50. Outstanding Extension effort, North Carolina Agricultural Extension Service, Conservation Reserve Program, 1986.
51. Extension Educational Aids Blue Ribbon Awards, American Society of Agricultural Engineers, 1985.

PROFESSIONAL ORGANIZATIONS

1. American Agricultural Economics Association
2. Southern Agricultural Economics Association
3. Western Agricultural Economics Association
4. Soil Conservation Society of America
5. North Carolina Soil Conservation Society
6. N.C. Association of Cooperative Extension Specialists
7. Phi Kappa Phi, Honor Society
8. Gamma Sigma Delta, Honor Society
9. Omicron Delta Epsilon, Honor Society
10. Resource Policy Consortium

SELECTED COMMITTEES/ADVISORY ACTIVITIES

- C-FARE Board of Directors, 2007-2010
- Dynamic Ecosystems Management Strategic Planning Steering Committee, 2007-2011
- President, Western Agricultural Economics Association, 2005
- University Assessment committee, 2004-2008
- College of Agriculture, Strategic planning committee, 2005-
- Colorado Public Policy Institute, 2004—
- CSU Disciplinary Appeals committee, 2004--
- Faculty Council, Representative at Large, College of Agriculture, 2001-2006
- Founder and Editor, Western Economics Forum, 2001-2004
- Vice President, Western Agricultural Economics Association, 2003-2004
- Founder and advisor, Collegiate Farm Bureau, 2000-
- University disciplinary committee, 2003-
- Public Policy Institute, 2003-
- Colorado State University Assessment committee, 2003-
- University search committee for director of the Public Policy Institute, 2002/2003
- Executive Committee, Department of Agricultural and Resource Economics, 1998-2003
- Chair, Research Strategic Planning committee, College of Agriculture, 2001.
- Expectations for Graduates: The College of Agricultural Sciences Task Force, 1997
- Six-year program review committee, 1997-
- Graduate Admissions committee, Department of Agricultural and Resource Economics 1992-
- Faculty search committee for 1) policy, 2) marketing, and 3) agribusiness, 1997
- Advisor, Student Agricultural Council 1995-1997
- National teleconference on economic contribution of extension, 1996
- Extension hiring committee for Manure demonstration project, 1996
- Prelim committee, Chair (multiple times)
- Production Field Exam, Chair (multiple times)

- Economics Tool Design Team, Natural Resources Conservation Service, 1994-1996
- W-190 Regional Research Committee, Water Conservation, Competition, and Quality in Western Irrigated Agriculture, 1994—
- Western Agricultural Economics Association Council Member, 1994-1997
- Colorado Experiment Station subcommittee on College reorganization ideas, 1994
- Advisor, National Association of State Departments of Agriculture's federal legislative proposal for Environmental Investment, 1994.
- Natural resource workgroup on the President's Council on Sustainable Development
- Farm Bill Working Group No. 4 - Farm Management: Integrating Economics and the Environment. To assist ECOP/ESCOP with responses to Farm Bill policy proposals in Washington, 1993...
- USDA, Natural Resource Conservation Service RCA III evaluation team member (Resource Conservation Act), 1993-
- N.C. State Economist Editorial Board, 1990-1992.
- Extension Computer Task Force, 1989-present.
- USDA subcommittee on the 1990 Food Security Act, 1988/1989.
- Natural Resources Extension Initiative committee, 1988 to present.
- Water Quality Extension Initiative committee, 1988 to present.
- Tennessee Valley Authority, 201 steering committee for North Carolina, 1986 to 1988.
- Extension subcommittee on water management, 1986 to 1988.
- Tar Heel Economist editorial committee, 1986-1987.
- Extension Committee on the Conservation Title of the 1985 Food Security Act (Chairman), 1985-present.
- Multiagency task force on the Conservation Title of 1985 Food Security Act: Extension, SCS, ASCS, FCIC and FmHA. 1985-present.
- Conservation Tillage Information Center representative, 1985-present.
- Nutrient-Sensitive Watershed cost-share program, 1985-1988.
- Extension task force on Group Conservation Planning Program, 1985-1988.
- Tennessee Valley Authority, Program, Planning and Information Subcommittee, 1985--1986.

GRANTS AND CONTRACTS

Awarded

1. Hoag. 5/2017 – 9/2020: High Efficiency Sprinkler Irrigation in the Lower Arkansas Valley, Colorado: Balancing economic risks of adoption with pollution risks from not adopting. USDA Western Risk Management Center. \$50,000
2. Arabi, M, D. Hoag and T. Bauder. 2015. Nutrient Reductions Irrigated Agricultural Watersheds: International Planning, Implementation, And Maintenance. Agricultural Experiment Station, Colorado State University, July 1, 2015 - June 30, 2018, \$75000
3. Hoag, D. with T. Gates et al. 2014. Water Quality and Productivity Enhancement in an Irrigated River Basin through Participatory Conservation Planning and Analysis. National Integrated Water Quality Program, National Institute of Food and Agriculture. 659,954

4. Hoag, D. with M. Arabi et al. 2013. Center for Effective Abatement of Nutrients. Funded by the US Environmental Protection Agency. \$2,220,150. Grant period 09/01/2013 - 08/31/2017
5. Koontz Lynne Dana Hoag Susan Winter. 2012. Assessing the impacts to rural communities of wildlife habitat protection and restoration: Rural development in the face of global economic and climate changes. US Fish and Wildlife Service: \$150,000
6. Gates, Tim, Hoag et al. 2012. Identifying Arkansas River Selenium and Nitrogen Best Management. Colorado Nonpoint Source \$256,620
7. Hoag, Dana, Mazdak Arabi. 2011-2014. Analysis of Conservation Practice Effectiveness and Producer Adoption Behavior in Lake Jordan Watershed, NC, \$146,332
8.) Evans, Sam and Dana Hoag. 2011-2012. Liquid Biofuel vs Bioelectricity: Optimal Use of lignocellulosic Agricultural Feedstocks. 2011. C2B2, Colorado Center for Biorefining and Biofuels, \$34,994
9. US Fish and Wildlife Service. (2011-2012). The Economic Contribution of Restoration Lands in Rural Communities, \$18,094.
10. Adapting Livestock Systems to Climate Change in Mali. USAID mission associate award, 8/2010 to 7/2013, \$5,250,000.
11. Adapting Livestock Systems to Climate Change; Collaborative Research Support Program. Co-PI and Co-project director if funded. \$15 Million.
12. Hoag, (Arabi lead) and others. 2009. A Multi Criteria Decision Tool For the Assessment and Planning of Watershed Conservation Practices, \$579,350
13. Hoag. 2009. Risk Education Outreach in the Navaho Nation. Cooperator on RMA-Outreach grant (\$32,000)
14. US Geological Society. 2008. Ecosystem and Economic Returns in Prairie Potholes. Support for one graduate student for the year. Approximately \$20,000
15. Parsons, J. and D. Hoag. 2008. Variety choices and risk management considerations for grain producers. Western Center for Risk Management Education, \$29,800
16. Risk and Strategic Planning for Female Agricultural Producers in Utah and Western Colorado" \$42,000 Pre-Proposal in Review with Western Center for Risk Management Education.
17. RightRisk Education for Pasture, Rangeland and Forage Pilot Insurance in Colorado, 2007. USDA Risk Management Agency. 99,500
18. Deanna Osmund (lead), Dana Hoag and others. 2007. Synthesizing and Extending Lessons Learned from the 13 CREES-CEAP Watersheds \$600,000
19. Hoag and Parsons, 2007. Insurance Education for Sheep Producers, Western Center for Risk Management Education, \$40,000
20. (Cooperator) Pritchett, Bond and others. Developing Economically Sustainable Cropping Strategies for Small and Medium Sized Farms in an Increasingly Scarce Water Environment. USDA-NRI (September 2006 through December 2009): \$499,117
21. Hoag, and Swinton, "Ecosystem services from working lands: Cross-site LTER research. \$8,150
22. Hoag, D.. Specialized Strategic Risk Management Training for Female Farmers and Ranchers in Colorado and Nearby States, USDA-Risk Management Agency, (Oct 2006-Sept 2007), \$125,000

23. Hoag, D. and J. Parsons. Risk management education for Colorado producers using RightRisk, USDA-Risk Management Agency, (Oct 2006-Sept 2007), \$150,000
24. Hoag, D. with Seidel and others. Integrating in Vitro Embryo Technologies into the Dairy Industry. USDA-NRI Animal Reproduction Program. \$ 449,907 (F
25. The Strategic Risk Management Process: Publishable book, website with decision tools, and professional training. US Department of Agriculture, Risk Management Agency., Risk Research Program. September 2005-August 2008. \$404,110
26. Risk Management for Nebraska Livestock Producers. US Department of Agriculture, Risk Management Agency., RME Small Sessions Program. September 2005-August 2006. \$10,000
27. American Sheep Industry RightRisk Education Project. US Department of Agriculture, Risk Management Agency., RME Small Sessions Program. September 2005-August 2006. \$10,000
28. Risk Management Programs for Beginning and Young Producers in Northeast Colorado, US Department of Agriculture, Risk Management Agency., RME Small Sessions Program. September 2005-August 2006. \$10,000 (all CSU)
29. Risk Management for Colorado Livestock Producers. US Department of Agriculture, Risk Management Agency., RME Commodity Partnerships. September 2005-August 2006. \$149,977 (all CSU)
30. Factors affecting conservation easements for rural land preservation: agricultural production and amenity preservation through emerging markets. USDA National Research Initiative Competitive Grants Program, 62: Rural Development, August, 2005-2008, \$388, 200 (207,557 for CSU)
31. Risk Management Training with RightRisk. Submitted to the Western Center for Risk Management Education., Washington State University, (in review) \$38,574
32. With Hewlett in Wyoming. USDA, FCIC, Operating through the RMA - Commodity Partnership Program., Risk Management Education for Crop Producers in Wyoming. \$292,903
33. With Hewlett in Wyoming. USDA, FCIC, Operating through the RMA - Commodity Partnership Program., Risk Management Education for Wyoming Livestock Producers , \$149,947
34. Commodity Partnership Grant, USDA Risk Management Agency. \$97,965_
35. A Risk Management Education Partnership with Colorado Sheep Producers., 22,000
36. IFARM DSS Risk Analysis Module Development, United States Department of Agriculture, Agricultural Research Service, \$5,000, 2004-2008
37. The Role of Indices in Natural Resource Policy Analysis, US Geological Survey, Biological Research Division, \$26,000, 2004-2005
38. Investigator with Kaan, Using "Surviving in Agriculture" to Teach Equity Management to Ag Producers in Western States, \$39,997
39. Factors affecting conservation easements for rural land preservation: agricultural production and amenity preservation through emerging markets. Submitted to NRI CGP 62: Rural Development, December, 2004, \$388,138 (213,764 for CSU) ()

40. Book Work Plan. USDA-Animal Plant Health Inspection Service. To write book based on 2002 livestock insurance program. 39,500, 2003-2004
41. A Commodity Partnership Risk Management Education Project in Colorado, Funded in the Commodity Partnerships program, Risk Management Agency, Sept 2003-Oct 2004, \$113,000
42. With John Hewlett: Western Center for Livestock Management. Funded by Western Center for Risk Management Education, Pullman, WA, \$19,000 (June, 2003-May 2004)
43. Drought Management Risk Simulation for Research and Education. Funded by CSREES-Agricultural Risk Management Education CGP, \$80,000
44. Education, Training and Outreach on Risk Education, Funded by the Western regional Sustainable Agriculture Research and Education program, May 2003-2005. \$99,600
45. With Steve Koontz. Animal Insurance Products. Cooperative agreement with USDA-Animal Plant Health Inspection Service, May, 2002 (\$39,312)
46. With Sue Hine: A compost market and policy analysis in Colorado. Special funds from the Colorado Experiment Station. Funded at \$6,000 in fiscal year 2003, \$14,000 in 2004, and \$7,000 in 2005.
47. With John Hewlett: Western Center for Livestock Management. Funded by Western Center for Risk Management Education, Pullman, WA, \$45,000 (June, 2002-May 2003)
48. Hoag, Dana. Develop new economic budgeting & risk component. Grant from the USDA-Agricultural Research Service, Great Plains Research Unit, (continuation \$5,000), 2002
49. USDA Proposal for National Needs Fellowship, Natural Resources and Environment, with Loftus, funded at \$207,000 from 7/2002-8/2005.
50. Hoag, Dana and John Hewlett. A Risk Education Simulation/game. CSREES - RMECG. Funded at \$99,073 for two years.
51. Hoag, Dana. Develop new economic budgeting & risk component. Grant from the USDA-Agricultural Research Service, Great Plains Research Unit, (continuation \$7,500), 2001
52. Hoag, Dana. Develop new economic budgeting & risk component. Grant from the USDA-Agricultural Research Service, Great Plains Research Unit, approximately \$22,000, 2000
53. Hoag, Dana. Return to Investment in Agricultural Research and Extension In Colorado: A Case Study of Beef Research, Grant from Colorado Experiment Station, (\$13,286), 11-2000 to 6-2001
54. Hoag, D. 1998. Develop New Economic Budgeting & Risk Assessment Components for GPFARM, USDA ARS, Great Plains Systems Research Unit, Fort Collins, (\$25,700), July 31 1998-july 31, 2,003.
55. Hoag, D. and L. Nieuwoudt. Modeling water availability and use to analyze economic and policy issues in South Africa: Capacity building and a case study. Proposal submitted to the Water Research Commission, Pretoria, South Africa, (\$100,000 (453,000R)), 1998.
56. Hoag, D. Economic Development in GPFARM. USDA-Agricultural Research Service. \$20,086 (97/98)
57. Hoag, D., G. Niswender, and R. Green. Building Sustainable Ranching Communities with Livestock Integrated Resource Management. Fund for Rural America, Colorado Experiment Station and Colorado State University College of Agriculture joint award, (3 years, \$343,000).

58. Hoag, D., M. Frasier and D. Lybecker. Computer and Presentation Equipment to Facilitate Field-Level Collaboration," Grant from the Agricultural Experiment Station's Interdisciplinary Equipment Grants, \$25,712, December, 1997.
59. Hoag, D., with J. Ascough (USDA-ARS). Development of enterprise and whole-farm budgeting computer software. Joint funding from Colorado State University Experiment Station and Cooperative Extension Service, \$15,000, 1998.
60. Hoag, D. Development of emerging analytical ecological assessment methods. Purchase order for study, reports, and manuscripts, National Center for Environmental Assessment, US Environmental Protection Agency, September, 1997 (\$29,150)
61. Hoag, D. Research and Extension Productivity in the College of Agriculture. Grant from Colorado Agricultural Experiment Station, Oct 1997-June 1998 (\$17,500)
62. Hoag, D. with R. Green, G. Seidel, and N. Dalsted. Determination of the Impacts and Effectiveness of Sexed-Semen Utilization in Commercial Beef Cattle Production. CSU Experiment Station, Interdisciplinary Research competition, 1997-99, \$92, 770
63. Hoag, D. NRCS funding for J. Hughes soil sustainability project, \$4,000, 1997
64. Hoag, D. Economic case studies of manure management in Weld County Colorado. \$6,500 from Farm Bureau (in cooperation with Agronomy and Soil Science), 1997
65. Hoag, D., and M. Frasier. Economic Development in GPFARM. USDA-Agricultural Research Service. \$18,262 (96/97)
66. Hoag, D., with others at CSU, Reducing Environmental Contamination from Feedlot Manure in the South Platte River Basin through Agronomic, Economic and Social Analysis and Education \$205,000 (10/96-9/99)
67. Hoag, D. Summer funding for graduate research assistantship (E. Hornbrook), National Renewable Energy Lab, Golden, Colorado, \$4000 1995.
68. Hoag, D. A survey of farmer attitude and use of microcomputers- Agricultural Resource Service, \$13,200 (1995).
69. Hoag, D. And M. Frasier. GPFARM Economic Modeling-USDA-Agricultural Resource Service, \$26,000 (1995/96).
70. Hoag, D. Develop and Implement training program for two environmental agency leaders from Albania, G. Deliu and D. Shkupi (Contract), Fall, 1994. 6000
71. Hoag, D. and M. Frasier. GPFARM Economic Modeling-USDA-Agricultural Resource Service, \$27,500/year, 1994/95.
72. Hoag, D. Internship for CRP evaluation in Washington, D.C. (J. Hughes), \$3,000
73. Hoag, D. and J. Fulton. Evaluation of Colorado Agriculture's Impact on the Economy, \$10,000.
74. Hoag, D. with G. Carlson and M. Cuesta. "Economic Analysis of Yurimaguas, Peru: Experimental Data." Funded by USAID/USDA-ERS Tropsoils project, North Carolina. \$10,000 for fiscal year 1993.
75. Danielson, L. and D. Hoag, Development of Educational Materials about North Carolina Water Quality Legislation, National Water Quality Initiative, pass-through money, N.C. Cooperative Extension Service, \$25,000/year beginning 1992.

76. Hoag, D. with Greg Jennings, James Barker, and Kelly Zering. "Environmental and Economic Evaluation of Animal Waste Management," Grant from North Carolina State University, College of Agriculture, \$50,000 for 1993 fiscal year.
77. Hoag, D., with J. Barker and K. Zering. Analysis of Profit Maximizing Waste Management Systems for North Carolina Swine Producers. Grant funded by the North Carolina Pork Producers Association, \$6,360 for 1992/93.
78. Hoag, D., K. Zering, and L. Danielson. Evaluating the Effectiveness of USDA Nonpoint Source Pollution Control Programs in the Coastal Plain of North Carolina. USDA Extension Service, \$27,000 for 1991/92, \$32,000 for 1992-93.
79. Hoag, D., A. Hornsby, and D. Nofziger. Economics of Managing Pesticides to Reduce Water Quality Degradation. Funded by the Cooperative State Research Service, \$195,276 over 1991-92.
80. Hoag, D., with Worsham and York. "Substitution of Cover Crops for Preemergence Herbicides for Weed Control in Cotton and Corn." Grant received from the Southern Region Pesticide Impact Assessment Program, \$14,500/year, 1991-1994.
81. Hoag, D. and D. Neuman. "Utilizing Low-Input Sustainable Agriculture Farm Decision Software in North Carolina, " Extension USDA, \$33,550, 1990/91.
82. Hoag, D., D. Young and M. Smolen. "National and Regional Comparisons of Policies for Low Input Sustainable Agriculture." Environmental Protection Agency, \$39,500, October 1989 to July 1990.
83. Hoag, D., L. King, U. Blum, D. Worsham, A. Wollum, K. Cassel, G. House, M. Cook and D. Schmitt. "A Comparison of Cropping Systems Managed Conventionally or with Reduced Chemical Inputs." Agricultural Research Service, special grant for low input-sustainable agriculture research, \$190,000 for 1988-1990.
84. Hoag, D. Written- and Computer-Decision Aids for the Adoption of Soil Conservation Measures, Tennessee Valley Authority Grant, funds approved annually, 1988-1991, total \$77,088.
85. Wright, J., M. Smolen, S. Lilley, D. Hoag and M. Cook. Work group on Extension Efforts in Soil and Water Programming, \$75,000, 1985/86.
86. Hoag, D. and W. Gilliam. "Soil Productivity Studies in the TVA Region."Tennessee Valley Authority Grant, \$50,000, 1985/86.
87. Hoag, D. "Profitability Models for IPM Programs." North Carolina State Extension IPM Grant (\$6,125,
88. Hoag, D. and M. Smolen. "Economic Analysis of Alternative Cropland Selection Algorithms to Promote Water Quality under the Food Security Act of 1985," from EPA (\$42,942, 1986 and \$49,994, 1987).

PUBLICATIONS

In Process or Forthcoming

Hoag, Dana, T. Gates, T. Orlando, and C. Shultz. (forthcoming) Sustainable irrigation in the lower Arkansas River Valley. Colorado Water, Colorado Water Institute.

Hou, Lingling, Catherine Keske, Dana Hoag and Tomas Balezentis. (In review) Abatement costs of emissions from burning maize straw in major maize regions of China: Balancing food security with the environment. *J. of Cleaner Production*

Stroheim, Eric and Dana Hoag. (In review) Valuing Cattle Manure as an Agricultural Resource for Efficiency and Environmental Sustainability. *Agroecology and Sustainable Food Systems*.

Sharp, Misti, Dana Hoag and Dale Manning. (to be submitted) Uncertainty and technology adoption with imperfect property rights: lessons from the arkansas river valley

Sharp, Misti, Jordan Suter and Dana Hoag. (to be submitted) An experimental approach to resolving uncertainty in water quality trading markets

Mutiasira, Vine, Dana Hoag, Dale Manning and Dustin Pendell. (to be submitted) Investigating the odds of sustainable intensification in Ethiopian highlands

Mutiasira, Vine, Dana Hoag, Dale Manning and Dustin Pendell. (to be submitted) Understanding drivers and patterns of agricultural intensification in ethiopian highlands

Orlando, Tony, Dana Hoag and Tim Gates. (to be submitted) Economic and environmental trade-offs of irrigation best management practices in the lower Arkansas river valley

Journals and Manuscripts

1. Hoag Dana, Chris Goemans and Tony Orlando. 2018. Sustainable policies that align irrigation and water quality. Special Issue: The Future of Water in the West, Western Economic Forum
2. Hoag, Dana and David Zilberman. 2018. Forward. Special Issue: The Future of Water in the West, Western Economic Forum
3. Tuffa, Samuel, Dana Hoag & Anna C. Treydte. 2018. Effects of clipping and irrigation on carbon storage in grasses: implications for CO₂ emission mitigation in rangelands, *Carbon Management*, DOI: [10.1080/17583004.2018.1451963](https://doi.org/10.1080/17583004.2018.1451963)
4. Mutyasira, Vine, Dana Hoag, Dustin Pendell, and Dale Manning. (Revise and resubmit). Assessing the relative sustainability of smallholder farming systems in Ethiopian highlands. *Agricultural Systems*
5. Motalebbe, D. Osmond, D. Hoag, Ali Tasdighi, Mazdak Arabi, and Deanna Osmond. 2018. Impact of Relative Demand for Ecosystem Services on Stacking Ecosystem Credits. *Ecosystem Services* 29: p. 137-144
6. Tilahun, Abera, Beyene Teklu Mellisse, and Dana Hoag. 2017. Challenges and Contributions of Crop Production in Agro-Pastoral Systems of Borana Plateau, Ethiopia. *Agriculture. Pastoralism: Research, Policy and Practice* (2017) 7:2. DOI 10.1186/s13570-016-0074-9

7. Berhe, Melaku, Dana Hoag, Girmay Tesfay and Catherine Keske. 2017. Factors influencing the adoption of biogas digesters in rural Ethiopia. *Sustainability and Society* (2017) 7:10, DOI 10.1186/s13705-017-0112-5
8. Berhe, Melaku, Dana Hoag, Girmay Tesfay, Tewodros Tadesse, Shunji Oniki, and Masaru Kagatsume. 2017. The effects of adaptation to climate change on income of households in rural Ethiopia. *Pastoralism: Research, Policy and Practice*. 7: 12. <https://doi.org/10.1186/s13570-017-0084-2>
9. O'Connell, C., M. Motallebi, D. Osmond, and D.K. Hoag. 2017. Trading on risk: The moral logics and economic reasoning of North Carolina farmers in water quality trading markets. *Economic Anthropology*, 4:pp 225-238
10. Hoag, D., M. Arabi, D. Osmond, R Ribaud, M. Motallebi, and A. Tasdighi. 2017. Policy utopias for nutrient credit trading programs with non-point sources. *Journal of the American Water Resource Association*.
11. Motallebi, M., Hoag, D.L., Tasdighi, A., Arabi, M. and Osmond, D.L., 2017. An economic inquisition of water quality trading programs, with a case study of Jordan Lake, NC. *Journal of Environmental Management*, 193, pp.483-490.
12. Bastian, C.T., Keske, C.M., McLeod, D.M. and Hoag, D.L., 2017. Landowner and land trust agent preferences for conservation easements: Implications for sustainable land uses and landscapes. *Landscape and Urban Planning*, 157, pp.1-13.
13. Sharp, M.D., Hoag, D.L.K, Bailey, R.T., Romero, E.C., and T.K. Gates. 2016. Institutional Constraints on Cost-Effective Water Management: Selenium Contamination in Colorado's Lower Arkansas River Valley. *Journal of the American Water Resources Association* 52(6): 1420-1432. [doi: DOI: 10.1111/1752-1688.12463]
14. Shah, Syed, Dana Hoag and Steve Davies. (2016) Is willingness to pay for freshwater quality improvement in Pakistan affected by payment vehicle? Donations, mandatory government payments, or donations to NGO's. *J. of Environmental Economics and Policy Studies*: p. 1-12. doi:10.1007/s10018-016-0178-x
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6. Hoag, Dana, Jennie Popp and David Eric Hyatt. Sustainability and Resource Assessment: A Case Study of Soil Resources in the United States. United States Environmental Protection Agency, Office of Research and Development (Publishers), EPA/600/R-98/038, 1998. ISBN 0-9665761-0-1-7)
7. Hughes, Jennie, Dana Hoag and Terry Nipp. 1995. The Future of the Conservation Reserve: Positions of Key Organizations. A special issue briefing paper by the ESCOP/ECOP Farm Bill Working Group, printed by AESOP Enterprise, Ltd., Washington, D.C.

Book Chapters

- 1) Osmond, D., D. Meals, D. Hoag, M. Arabi, A. Luloff, M. McFarland, G. Jennings, A. Sharpley, J. Spooner, and D. Line. 2013. Agriculture and sustainable practices: protecting water quality. In: Water Sustainability in Agriculture. Eaglesham, A., K. Korth, R.W.F. Hardy, Eds. National Agricultural Biotechnology Council. Ithaca, NY.
- 2) Hoag, Dana and Jennie Popp. 2009. Theory and Practices of Pollution Credit Trading in Water Quality Management. Republished journal article in Economics of Water Resources Article chosen. Edited by R. Quentin Grafton, Professor of Economics, Crawford School, Australian National University. Volume 1, The International Library of Critical Writings in Economics-234, Elgar Reference Collection, Cheltenham, UK. (ISBN: 978-1-84720-646-6)
2. Hoag, Dana. 2006. Teaching the Economics of Country Values. In Black Earth and Ivory Tower: Working the Middle Ground. Zachary Michael Jack (Editor), University of South Carolina Press, Columbia: p. 231-239
3. Keske, C. and D. Hoag. (2006) Urban Sprawl. In Issues: Understanding Controversy and Society. ABC-CLIO Digital Collections.
4. Keske, C. and D. Hoag. (2006) Water Quality and Availability. In Issues: Understanding Controversy and Society. ABC-CLIO Digital Collections.
5. D. Hoag and C. Keske. (2006) Food Safety. In Issues: Understanding Controversy and Society. ABC-CLIO Digital Collections.
6. Hoag, Dana, Catherine Keske-Handley, James Ascough, II and Lynne Koontz. 2005. Decision Making with Environmental Indices. Nova Science Publishers
7. Koontz, Lynne, and Dana Hoag. 2005. Disparate Stakeholder Management of Wildlife Issues in the Southern Greater Yellowstone Area. Nova Science Publishers
8. Landowner expectations and experiences with conservation easements. 2003. Compensatory programs for conserving agricultural land._ Agricultural Issues Center, University of California, Davis. Andrew Marshall, Dana Hoag & Andrew Seidl. (will be published with December 2003 date. Expected release January or February 2004).

9. Popp, J., D. Hoag and J. Ascough. *Sustainable Soil Management: A Framework for Analysis*. In: Stott, D.E., R. Mohtar and G. Steinhardt (eds.). *The Global Farm – Selected papers from the 10th International Soil Conservation Organization Meeting*. USDA-ARS National Soil Erosion
10. Research Laboratory, May 24-29, 1999, Purdue University, West Lafayette, Indiana, USA. International Soil Conservation Organization and the USDA, Agricultural Research Service. (December 2001).
11. Hoag, D. Soil Conservation Incentives in the 1985-1996 U.S. Farm-Bills. Chapter 12, In *Incentives in Soil Conservation: From Theory to Practice*, David W. Sanders, Paul C. Huszar, Samran Smbatpanit & Thomas Enters (Editors), Oxford & IBH Publishing Co. PVT.LTD, New Delhi, December 1999: p. 165-182. (isbn: 1-57808-061-4)
12. Hoag, D., J. Hughes, and P. Huszar. "Is U.S. soil conservation policy sustainable development?" Chapter 11, in T. Napier, S. Napier and J. Tvrdon (Editor), *Soil and Water Conservation Policies: Successes and Failures*, CRC Press, Boca Raton, Florida, 1999: p. 127-142. (isbn: 0-8493-0005-3)
13. Hughes, J., P. Huszar, and D. Hoag. "Reducing wind erosion damages and the Conservation Reserve Program." Chapter 12, in T. Napier, S. Napier and J. Tvrdon (Editor), *Soil and Water Conservation Policies: Successes and Failures*, CRC Press, Boca Raton, Florida, 1999: p. 143-154. (isbn: 0-8493-0005-3)
14. Vickner, S., and D. Hoag. "A Multiple Objective Decision Support System for Beef Cattle Ration Formulation." In S.A. El-Swaify and D.S. Yakowitz (editors), Multiple Objective Decision Making for Land, Water and Environmental Management, St. Lucie Press, Boca Raton, FL, 1997 (isbn:1-57444-091-8)
15. Nofziger, D., A. Hornsby and D. Hoag. "Pesticide economic and Environmental Tradeoffs: Developer's Perspective." In S.A. El-Swaify and D.S. Yakowitz (editors), Multiple Objective Decision Making for Land, Water and Environmental Management, St. Lucie Press, Boca Raton, FL, 1997 (isbn:1-57444-091-8)
16. Hoag, D., and M. Skold. *Sustainability: Observations, Expectations and Policy Implications for American Agriculture*. In Improving Citizen Involvement, Steve Halbrook (editor), Farm Foundation, Oak Brook, Illinois (1995)
17. Roka, F., D. Hoag, and K. Zering. 1995. *Making Sense of Why Swine Effluent is Sprayed in North Carolina and Hauled in Iowa*. Impact of Animal Waste on the Land-Water Interface, Ken Steele (editor), Lewis Publishers, New York. (isbn:1-56670-189-9).
18. Helmers, G. and D. Hoag. 1993. "Sustainable Agriculture." In Food, Agriculture, and Rural Policy into the Twenty-First Century, edited by M.C. Hallberg, R.F. Spitze and D.E. Ray, Westview Press, Boulder, Colorado. (isbn:0-8133-8763-9).

Special Publications

1. Osborn, Blake Anthony S. Orlando Dana L. Hoag Timothy K. Gates and James C. Valliant. 2017. *The Economics of Irrigation in Colorado's Lower Arkansas River Valley*. Colorado Water Institute, November, Special Report No.32
2. Milne, Eleanor, Dana Hoag and Richard Bowen (Editors). 2015. *The State of the Science: Grazing Lands, Livestock and Climate Resilient Mitigation in Sub-Saharan*

- Africa, US Agency for International Development, August. USAID Contract No. AID-OAA-L-10-00001.
3. Swift, David and Dana Hoag (Co-editors). 2015. *Grazing Lands, Livestock And Climate Resilient Mitigation In Sub-Saharan Africa: Part Ii. Experiences From The Field*. White Paper For Us Agency For International Development.
 4. Gascoigne, W.R., Hoag, D.L., Johnson, R.R., and Koontz, L.M., eds., 2013, *Dynamics of land-use change and conservation in the Prairie Pothole Region of the United States— Environmental and economic implications with linkages to rural community well-being: U.S. Geological Survey Professional Paper 1800*, 65 p., <http://pubs.usgs.gov/pp/1800/>.
 5. McGaffin, G., D. McLeod, C. Bastian, C. Keske and D. Hoag. 2013 “Wyoming Landowners Characteristics and Preferences Regarding Conservation Easements: Results from a Survey.” *Wyoming Agricultural Experiment Station Bulletin B-1241*. March 2013. Department of Agricultural and Applied Economics, University of Wyoming. http://www.wyomingextension.org/publications/Search_Details.asp?pubid=1825
 6. Gascoigne, W.R., Hoag, D.L.K., Johnson, R.R., Koontz, L.M., and Thomas, C.C., 2013, *Land-use change, economics, and rural well-being in the Prairie Pothole Region of the United States: U.S. Geological Survey Fact Sheet 2013–3046*, 6 p., <http://pubs.usgs.gov/fs/2013/3046/>.
 7. Fathelrahman, E., D. Hoag, and B. Vandenberg. 2010. *Water Resource Study in Ghana: Water Resources Development Policy Note*. Consulting report for the World Bank.
 2. Hoag, D. *The Agricultural Cost of Wildlife in Colorado*. 2009. Special report for the Colorado Farm Bureau.
 3. Hoag, Dana and Jennie Popp. *Theory and Practices of Pollution Credit Trading in Water Quality Management*. Republished journal article in *Economics of Water Resources*, published for the International Library of Critical Writings in Economics, Quentin Grafton (editor), Edward Elgar Publishing, Ltd. 2008
 4. Ettema, J.F., D.L. Hoag and G.E. Seidel Jr.. *Economic opportunities for sexed semen on commercial dairy farms*. *Colorado Dairy News*, Vol 13 (2007)
 5. Hoag, D. 1994. "Sustainable Agriculture." In 1995 Farm Bill, Policy Options and Consequences, Texas Agricultural Extension Service, The Texas A&M University System, College Station, November, pp. 133-138.
 6. Hoag, D. 1992. "Finding Middle Ground in Economic and Environmental Tradeoffs." In Sustainable Agriculture: Enhancing the Environmental Quality of the Tennessee Valley Region Through Alternative Farming Practices. (Larry A. Johnson, editor) Agricultural Extension Service, University of Tennessee, Knoxville.
 7. Young, D., F. Steiner, D. Hoag and E. Michalson. 1987. "Policy and Institutional Impacts on Adoption of Conservation Practices." In Soil Cons. Concepts and Accomplishments, Washington State University Press, Pullman, WA.
 8. Young, D., F. Steiner, D. Hoag and J. Carlson. 1986. "Policy Impacts on Adoption of Conservation Practices." In STEEP - Conservation Concepts and Accomplishments, L. Elliot (Editor), University of Idaho, Oregon State University, Washington State University, USDA-ARS.

INVITED PRESENTATIONS AND SYMPOSIUMS

1. Hoag, Dana. 2018. Wolf: Friend or Foe — How will their reintroduction into Colorado impact the environment, economy, and culture? School of Global Environmental Sustainability Managing the Planet Panel, Fort Collins
2. Gates, Tim and Dana Hoag. 2018. Tackling Water Quality Problems while Keeping Agriculture Productive in the Lower Arkansas River Valley. 24th Arkansas River Basin Forum, Otero Junior College, La Junta, CO, April 11 and 12.
3. Osmond, Deanna L. , Daniel Line, Marzieh Motallebi, Dana Hoag, Colorado State University [Water Quality Trading in Jordan Lake Watershed, NC: A Cautionary Tale.](#) Presentation at Managing Global Resources for a Secure Future, 2017 Annual Meeting, Oct. 22-25, Tampa, FL
4. Hoag, D. 2017. Your Farm Bill, Your Voice! Presented at Rocky Mountain Farmers Union meeting, CSU, April 26.
5. Osmond, D. and D. Hoag. 2017. The Limits and of Science Discovery in Policy: A Case Study from North Carolina and Colorado. International Interdisciplinary Conference on Land Use and Water Quality, The Hague, Netherlands.
6. Hoag, D. 2017. The Economics of Irrigation in Colorado’s Lower Arkansas River Valley. Water Quality Workshop: Impacting Your Farm’s Bottom Line. Feb 21, Oterro Junior College, La Junta, CO.
7. Hoag, D. 2017. Agricultural and Food Controversies. Colorado Council of Economic Education teacher training (7 hours), January 28, Denver, Colorado
8. Hoag, D. 2017. How to Develop Effective Nutrient Trading programs. Colorado Nutrient management Workshop: Advancements in System-level Nutrient Management, March 2, Denver, Colorado
9. Hoag, D. 2016. Why the Economics of Politics, Not the Issues, Dominate Elections. One day workshop for the Colorado Council on Economic Education, Denver.
10. Osmond, D.L., D.Hoag and M. Motalebi. 2016. Water Quality Trading in Jordan Lake Watershed: Will it Work? Annual North Carolina Soil and Water Conservation Meeting, Durham, NC.
11. Hoag, D. 2015. Preliminary Results of the Jordan Lake Economic Study. Presented to the North Carolina Department of Environment and Natural Resources, March.
12. Hoag, D. 2015. Water Quality Trading: Economics. In “You are in Jordan Lake Watershed: Regulation, Agriculture, Water Quality, and Trading,” Fellows Policy Forum, Soil and Water Conservation Society, Greensboro, NC
13. Hoag, D., M. Sharp, D. Osmond and M. Arabi. 2015. Socio-Economics that Drive Producers’ Decisions. Presented in the Marketing to Sell the Program Segment, Focusing Partnerships to Improve Water Quality, 2015 Nonpoint source pollution and water quality meeting, EPA/States/NRCS/State ACD, Rapid City, South Dakota, September 29
14. Hoag, D. 2015. Losing the West: This land is our land. Panelist for CSU Screening and post discussion, February 17.

15. Osmond, Deanna, Dana Hoag, Dan Line, Caela O'Connell, , Mazdak Arabi, Ali Tasdighi, and Marzieh Mottalebi. 2015. Science Meets Policy: A Case Study from a Regulated Watershed, Jordan Lake, North Carolina. Presented Interdisciplinary Conference on Land Use and Water Quality, LAND USE AND WATER QUALITY: Agricultural Production and the Environment, Vienna, Austria, 21-24 September 2015
16. Mutyasira, Vina and Dana Hoag. 2015. Intensification, sustainability, and sustainable intensification: What does it all mean for small farms in Ethiopia? Presented to the USAID Sustainable Intensification Innovation Lab, Kansas
17. Hoag, D. 2014. How to publish your research in Journals: Tips and Examples. Two-Day workshop in the School of Business Administration, Technologico De Costa Rica
18. Hoag, D. 2014. How to include Risk Management in Business Decisions. Invited symposium, School of Business Administration, Technologico De Costa Rica
19. Hoag, Dana. 2014. Project 5-Incentives and Trading. Presentation at the CLEAN Design Workshop, Fort Collins, CO, January 14, 2014.
20. Hoag, Dana. 2014. Incentives: People and Policy. Presentation at the CLEAN Design Workshop, Fort Collins, CO, January 14, 2014.
21. Hoag, D. Risk Navigator SRM; Building Risk Management Education. Workshop presented at United Arab Emirates University, May 11-13, 2013.
22. Hoag, D. Risk Management: RightRisk Simulation. 2013. Invited presentation at the Strum Law School, University of Denver.
23. Hoag, D. Economics and Development. 2013. Invited presentation at the Strum Law School, University of Denver.
24. Hoag, D. Ecosystems Management: Native Grasslands in The Prairie Potholes. 2013. Invited presentation at the Strum Law School, University of Denver.
25. Osmond, D., D. Meals, D. Hoag, M. Arabi, A. Luloff, G. Jennings, M. McFarland, J. Spooner, A. Sharpley, and D. Line. 2012. Lessons Learned from NIFA CEAP. Special Presentation, Annual Soil and Water Conservation Society Meeting, July 22-25.
26. Osmond, D., D. Meals, D. Hoag, M. Arabi, A. Luloff, G. Jennings, M. McFarland, J. Spooner, A. Sharpley, and D. Line. 2012. USDA's NIFA CEAP Synthesis: Lessons Learned. USEPA Watershed Academy Webcast, May 15, 2012.
27. Osmond, D., D. Meals, D. Hoag, M. Arabi, A. Luloff, G. Jennings, M. McFarland, J. Spooner, A. Sharpley, and D. Line. 2012. Developing next generation conservation practice effectiveness. USDA NIFA Water Conference, Portland OR.
28. Osmond, D.L. 2012. Accounting for Agricultural Progress at the Watershed Scale. The NC Forum on Nutrient Over-Enrichment. May 26-27, 2012. Raleigh, NC.
29. Osmond, D., D. Meals, D. Hoag, M. Arabi, A. Luloff, G. Jennings, M. McFarland, J. Spooner, A. Sharpley, and D. Line. 2012. Conservation Effects Assessment Projects/NIFA Watershed Synthesis Project. Board on Agriculture and Natural Resources (BANR). Washington, DC.
30. Hoag, Dana. What is Ag Policy and why is it Important? Presentation to the Ag Forum, College of Agriculture, Colorado State University, March 6, 2012
31. Hoag, D. 2011. An introduction to the Adapting Livestock Systems to Climate Change CRSP. AES Research Center Conference, January 13. Fort Collins, Colorado

32. Hoag, D. The agricultural cost to support wildlife in Colorado. Presented at the Institute for Livestock and Environment Spring Lecture Series, April, 2010
33. Hoag, D. 2010. Risk Navigator SRM: A strategic risk management approach and web tool kit. Presented at the Agricultural, International Conference on Agricultural Risk and Food Security, Beijing, China, June 10-13
34. Hoag, D. Risk Navigator: A strategic Risk Management Program, Chinese Agricultural University, Beijing, China June 2010
35. Hoag, D. with Shawn Archibeque and Michael Carolin. 2009. Panel Response to Lestor Brown, Monfort Professor in Residence, Colorado State University.
36. Osmund, D., D. Meals, M. Arabi, D. Hoag, A Luloff, A Sharpley, D. Line, G. Jennings, M. McFarland and J. Spooner. Initial Progress of the CEAP Synthesis Project: Year One. Presented at USDA-CSREES Water Quality Committee for Shared Leadership in Washington, D.C., April 2009
37. _____. 2009. Cost-Effectiveness of BMPs or Initial Progress of the CEAP
38. Synthesis. Heartland Water Quality Conference, Kansas City, KS.
39. _____. 2009. Initial Progress of the CEAP Synthesis: Year One. USDA CEAP Steering Committee, Washington, DC.
40. _____. 2009. Update of the CEAP Synthesis. USDA CEAP Steering Committee, October, 2009. Washington, DC.
41. The Economics of Risk. Presented at the University of Denver Law School, 2009
42. Hoag, D. Risk navigator SRM: A ten-step program for risk management in agriculture. DARE-NFS seminar series, February, 2009
43. Cost of Wildlife to Colorado Agriculture. 2009. Invited presentation, Annual meeting of the Colorado Farm Bureau, Colorado Springs, CO, November.
44. Cost of Wildlife to Colorado Agriculture. 2009. Invited presentation, Resource Stewardship Annual Committee Meeting, Annual meeting of the Colorado Cattlemen's Association, Colorado Springs, CO, November.
45. Cost of Wildlife to Colorado Agriculture. 2009. Special invitation-only presentation, Colorado Wildlife and Agricultural Leaders and Legislators, Denver, CO, September.
46. Bastian, C.T., C.M. Keske, S. Swallow, D. L. Hoag, E. Uchida, C. Anderson, D.M. McLeod, and A.D. Miller. WAEA Invited Symposium: "Emerging Markets for Environmental Goods: Can the Market Solve Such Problems?" Western Agricultural Economic Association Annual Conference, Big Sky, Montana. June 25-27, 2008.
47. Bastian, C. T., D. M. McLeod, D. L. Hoag, C. M. Keske, and A. D. Miller. "Factors Affecting Rural Land Preservation: Agricultural Production and Amenity Preservation Through Emerging Markets," USDA National Research Initiative Grant Program Project Directors Meeting, New Hampshire. July 28, 2008.
48. Hoag, D. Economic and Social Dimensions. Conservation Efficacy Assessment Program, CSREES National Water Conference, Reno, Nevada, 2008
49. The Economics of Risk. Presented at the University of Denver Law School, 2008
50. Hoag, D.L., J. Ascough, E. Fathelrahman, and C.M. Keske. 2007. "Stakeholder Payoff Matrix for Disparate Tradeoffs", Invited paper in integrated assessment of agricultural systems: environmental and socio-economic trade-offs II, Farming Systems Design

- Conference, ASA-CSSA-SSSA International Annual Meetings, Sicily, Italy (November 4-8, 2007).
51. Hoag, Dana. The 2007 Farm Bill. Governor's Outlook Forum, Denver, Colorado, 2007
 52. Critical Issues Facing Colorado, Agriculture, and Rural Economies in the New Millennium. Program dialog with President Penely and the Colorado State University Board of Governors, Sterling, CO February 6, 2007
 53. Keske, C.M. and D.L. Hoag. "The Economics of Working Lands: Finding Harmony Between Humans and Nature on the Shortgrass Steppe Prairie" 2007 Shortgrass Steppe Symposium, part of the Long Term Ecological Research Grant: "A Town Hall Meeting: Where is the Prairie Growing?" Colorado State University. January 11, 2007.
 54. Appeared on CSU-produced television program on the Future of Agriculture in America. 2006
 55. WAEA Presidential Address: Economic Principles for Saving Extension. Presented at annual meetings of the Western Agricultural Economics Association, San Francisco, California, June, 2005.
 56. RightRisk: A computer simulated game to teach risks. Pacific Northwest National Laboratory, Battelle. Richland, Washington, December, 2003.
 57. Prospecting for returns to research. Pacific Northwest National Laboratory, Battelle. Richland, Washington, December, 2003
 58. Hoag, Dana, James Ascough and Alejandra Engler. "Impact Matrix And Decision Rules To Enhance Index Dimensionality, Flexibility And Representation," 3rd International congress on Environmental Indices and Indicators: Systems Analysis Approach. October 2-5, Rome, Italy
 59. Hoag, Dana. "Crises in Agriculture." Colorado Experiment Station, Research Center Conference, January, 2001
 60. Hoag, Dana. The Economic, Environmental & Social Impacts of Sustainable Resource Management : An Application to Soil Quality for Agricultural Production. Presented in the Department of Crop Science, Colorado State University, March, 2001
 61. Lacy, M.G., Hoag, D. L. and J.G. Davis. 2000. "Feedlot Manure Use and Decision Making by Crop Producers." 2000 Great Plains Soil Fertility Conference, March 7-8. Denver, Colorado.
 62. Hoag, D. Pollution Trading Schemes: Potential and Pitfalls. Invited speaker, Smart Environmental Policy for Animal Agriculture: Possibility or Pipe Dream? Council on Food, Agriculture and Resource Economics (C-FARE), United States Capital, Washington, D.C., June, 1999.
 63. Hoag, D. Environmental Assessment in the Pilot EMAP Program: Using the Better Decisions Protocol. Two day presentation and facilitation, USEPA , Region 8 Office, Denver, Colorado, December, 1999.
 64. Hyatt, Eric, Dana Hoag and Jennie S. Hughes Popp. 1998. "Sustainability and Resource Assessment: A Case Study of Soils in the United States." Presentation at The Workshop on Environmental Indicators and Indices. Styria, Austria July 10-14.
 65. Hoag, D. and S. Page. Using the Analytical Hierarchy Process to Address Environmental Problems. Invited presentation, Department of Soil Science, North Carolina State University, Raleigh, 1998.

66. Hoag, D. Economic policy for agriculture in the United States. Presented at University of Pretoria, University of Stellenbosch, University of Natal, and Cape Province Agricultural Research Station, South Africa, 1997.
67. Hoag, D., J. Hughes, and P. Huszar. "Is soil conservation policy in the United States sustainable development?" Invited paper, Soil and Water Conservation Policies: Successes and Failures, sponsored by The Ohio State University et al., and the Czech National Agricultural University, Prague, Czech Republic, September, 1996.
68. Huszar, P., J. Hughes, and D. Hoag. "Reducing wind erosion damages and the Conservation Reserve Program." Invited paper, Soil and Water Conservation Policies: Successes and Failures, sponsored by The Ohio State University et al., and the Czech National Agricultural University, Prague, Czech Republic, September, 1996
69. Co-organize the 25th Anniversary Short Course on NEPA Assessment, Fort Collins, Colorado, August, 1995.
70. Hoag, D., and M. Skold. 1995. Sustainability: Observations, Expectations and Policy Implications for American Agriculture. 1995 National Public Policy Education Conference, Overland Park, Kansas, September.
71. Hoag, D. 1995. Conservation Policies and Sustainability. Keynote address, Sustainable Agriculture and the 1995 Farm Bill, Council for Agricultural Science and Technology, Hyatt Regency Hotel, Washington, D.C., January 23-25.
72. Roka, F., D. Hoag, and K. Zering. 1995. *Making Sense of Why Swine Effluent is Sprayed in North Carolina and Hauled in Iowa*. Impact of Animal Waste on the Land-Water Interface conference, Fayetteville, (July).
73. Hoag, D.L. 1994. Economic and Environmental Farm Management. Invited speaker, National Agricultural Pesticide Management Conference, March, St. Louis, Missouri.
74. Roka, F. and D. Hoag. 1993. "Are Manure Nutrients a Resource or a Waste." Presentation and proceedings paper in Agricultural Research to Protect Water Quality, sponsored by the Soil and Water Cons. Society, Minneapolis, Minnesota.
75. Hoag, D.L. 1993. "Developing Environmental Indicators and Indexes." Invited speaker, National Institute of Statistical Sciences Workshop on Combined Information, September, Chapel Hill, North Carolina.
76. Hoag, Dana. 1993. "Are the Models and Methods of Economists and Ecologists Compatible?" Session Moderator, Inegrating Economic and Ecological Indicators, annual meeting of the Resource Policy Consortium, World Bank, Washington, D.C.
77. Hoag, D. 1992. Economic Limits of Sustainable Agricultural Systems: Have Policy Makers Jumped the Gun? Testimony to the Joint Economic Committee, Symposium on "Agricultural Industrialization and Family Farms: The Role of Federal Policy," Rayburn House Office Building, Washington, D.C., October 21.
78. Hoag, D. 1992. "Finding Middle Ground in Economic and Environmental Tradeoffs." Conference on Sustainable Agriculture: Enhancing the Environmental Quality of the Tennessee Valley Region Through Alternative Farming Practices. Agricultural Extension Service, University of Tennessee, Knoxville.
79. Hoag, D. and W. Seitz. 1992. "Management of Public Resources," (Conference organizers and proceedings editors), Symposium presented by the Resource Policy Consortium, Washington, D.C. May 20-22.

80. Hoag, D. 1991. International Management of the Global Commons, Program organizer and moderator, Symposium presented by the Resource Policy Consortium, May, Washington, D.C.
81. Hoag, D. 1990. Do Current Federal Farm Policies and Agricultural Practices Lead to Increased Chemical Use and Groundwater Contamination? To What Extent and How? Moderator, Congressional Policy Workshop, Environmental and Energy Study Institute, Washington, D.C. Speakers: Senator Kerry, Congressman Grandy, D. Young, B. Larkin, D. Terry and F. Buschette.
82. Hoag, D. 1989. "Emerging Issues in Environmental Policies Toward Agriculture." Invited Essay in AERE Newsletter, Vol. 9, No. 1.

**RESEARCH, CONTRACT and EXTENSION
PUBLICATIONS AND PROCEEDINGS**

1. Nkonya, Ephraim and Dana Hoag Socio-Economic and Institutional Lessons. 2015. In Grazing Lands, Livestock And Climate Resilient Mitigation In Sub-Saharan Africa: Part Ii. Experiences From The Field. White paper for US Agency for International Development.
2. Hoag, D. and M. Sharp. 2015. Mitigation Banking Potential for Nutrient Management, CLEAN Fact Sheet, February.
3. Osmond, D., M. Arabi, D. Hoag, D. Line, C. O'Connell, M. Motallebi, and A. Tasdighi. 2015. Integrated Research – Water Quality, Sociological, Economic, And Modeling – In A Regulated Watershed: Jordan Lake, NC. Fifth Interagency Conference on Research in the Watersheds (ICRW), March 2-6, 2015, Charleston, SC. (poster)
4. Bowen, R., D. Hoag, et al. 2014. Annual Report 2013-2014. Feed the Future Innovation Lab for Collaborative Research on Adapting Livestock Systems to Climate Change.
5. Keske, Catherine, Calvin H. Pearson, Dana L. Hoag, Andrew Brandess. 2014. Western Colorado Perennial Grass and Biomass Budget Generator. Technical Report TR 14-3, Agricultural Experiment Station, Colorado State University
6. Osmond, Deanna, Don Meals, Dana Hoag, Mazdak Arabi, Al Luloff, Mark McFarland, Greg Jennings, Andrew Sharpley, Jean Spooner, and Dan Line. 2012. Protecting Water Quality in Agricultural Watersheds: Lessons Learned from the National Institute of Food and Agriculture's Conservation Effects Assessment Project. NWQEP Notes, North Carolina State University, Cooperative Extension Service, Raleigh.
7. Meals, D. W., D. L. Osmond, D. L.K. Hoag, M. Arabi, A.E. Luloff, G.D. Jennings, M.L. McFarland, J. Spooner, A.N. Sharpley, and D.E. Line. 2012. Lessons Learned from the NIFACEAP: Insights for Developing Successful Agricultural Watershed Projects. NC State University, Raleigh, NC.
http://www.soil.ncsu.edu/publications/NIFACEAP/Factsheet_1.pdf.
8. Osmond, D. L., D. W. Meals, A. N. Sharpley, M. L. McFarland, and D. E. Line. 2012. Lessons Learned from the NIFA-CEAP: Conservation Practice Implementation and Adoption to Protect Water Quality. NC State University, Raleigh, NC.
http://www.soil.ncsu.edu/publications/NIFACEAP/Factsheet_2.pdf.

9. Hoag, D., A. E. Luloff, and D. L. Osmond. 2012. Lessons Learned from the NIFA-CEAP: How Farmers and Ranchers Make Decisions on Conservation Practices. NC State University, Raleigh, NC.
http://www.soil.ncsu.edu/publications/NIFACEAP/Factsheet_3.pdf.
10. Jennings, G. D., D. Hoag, M. McFarland, and D. L. Osmond. 2012. Lessons Learned from the NIFA-CEAP: Effective Education to Promote Conservation Practice Adoption. NC State University, Raleigh, NC.
http://www.soil.ncsu.edu/publications/NIFACEAP/Factsheet_4.pdf.
11. Meals, D. W., D. L. Osmond, J. Spooner, and D.E. Line. 2012. Lessons Learned from the NIFACEAP: Water Quality Monitoring for the Assessment of Watershed Projects. NC State University, Raleigh, NC.
http://www.soil.ncsu.edu/publications/NIFACEAP/Factsheet_5.pdf.
12. Meals, D. W., D.L. Osmond, and A. N. Sharpley. 2012. Lessons Learned from the NIFA-CEAP: Identification of Critical Source Areas. NC State University, Raleigh, NC.
http://www.soil.ncsu.edu/publications/NIFACEAP/Factsheet_7.pdf.
13. Osmond, D., D. Meals, D. Hoag, M. Arabi, A. Luloff, G. Jennings, M. McFarland, A. J. Spooner, Sharpley, and D. Line. 2012. Locally Led Efforts to Protect Water Quality in Agricultural Watersheds. (A national slide set developed from the NIFA CEAP for farmer-led watershed organizations.)
<http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/technical/nra/ceap/?cid=stelprd1047821>.
14. Hoag, Dana. 2012. Risk Navigator SRM, Strom College of Law, University of Denver.
15. Hoag, D. 2010. Using RightRisk NavigatorSRM for small farm decisions. Presented at the Arizona Navaho Reservation, June, 2010.
16. Risk NavigatorSRM 101. Online education program with 10 streaming video lessons and book (www.RiskNavigatorSRM)
17. Wagner, L. and D. Hoag. 2010. Wolves at your door: A closer look at the controversy. Western Center for Integrated Resource Management, Colorado State University. WCIRM-2010-1 March 2010.
18. Hoag, D. and J. Parsons. 2009. Using strategic risk management lite (SRM Lite): An example on Mountain View Farms. RightRisk, #LG-01-09
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PROFESSIONAL MEETINGS, WORKSHOPS AND SEMINARS

Contributed/Submitted/Selected:

1. Motallebi, Marzieh, Ali Tasdighi, Dana Hoag, Mazdak Arabi, and Deanna Osmond. 2018. Implications for decision-making in water quality trading programs: Evidence from Jordan Lake Watershed Program. International Congress on Environmental Modelling and Software, Fort Collins, CO, June.
2. Motallebi, Marzieh, Ali Tasdighi, Dana Hoag, Mazdak Arabi, and Deanna Osmond, Role of relative ecosystem services demand on payments for stacking in a thin market" International Congress on Environmental Modelling and Software, Fort Collins, CO, June.
3. Orlando, T., D. Hoag and T. Gates. 2017. Sustainable Irrigation with Partially Conflicting Institutional Constraints. Presented at the annual meeting of the Western Agricultural Economics Association, Reno, NV (July 9-11)

4. Orlando, T., D. Hoag and T. Gates. 2017. Barriers to sprinkler irrigation adoption in Colorado's lower Arkansas river valley: Facts, fiction, and water quality impacts. Presented at Hydrology Days, Colorado State University, March
5. Sharp, M., J. Suter and D. Hoag. 2017. Improving Water Quality Trading Outcomes by Reducing Uncertainty: An Experimental Study on Resolving Regulation Uncertainty. Southern Agricultural Economics Association annual meeting, Feb. 4-7, Mobile, Alabama.
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9. Hou, Lingling, D. Hoag, J. Huang and C. Keske. 2016. Abatement costs of emissions from crop residue burning in major crop producing regions of China: using a DEA method. 14th International Conference on Data Envelopment Analysis, Wuhan, China – May 23 to 26, 2016
10. O'Connell, Caela, Marzieh Motalebbe, Deanna Osmond and Dana Hoag. 2016. Trading on Risk: The moral logics and economic reasoning of North Carolina farmers in water quality trading markets Special Issue on Risk and Resilience under review with Economic Anthropology
11. Todd, L., C. Bastian, D. McLeod (UWY), C. Keske (Memorial of New Brunswick), D. Hoag (CSU). 2016. Factors Affecting Colorado and Wyoming Landowners' Willingness to Accept a Conservation Easement. W3133 Annual Meetings.
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14. Hou, Lingling, Catherine Keske, Dana Hoag, and Jikun Huang. 2016. Abatement costs of Emissions from Crop Residue Burning in major crop producing regions of China: Balancing food security with the environment. Presented at the annual meeting of the Agricultural and Applied Economics Association,. Boston , MA
15. Osmond, D., D. Line, C. O'Connell, D. Hoag, M. Arabi, M. Motalebi, and A. Tasdighi. 2016. Project Integration Across Disciplines: Jordan Lake Watershed. Soil Science Department Seminar, NC State, Raleigh, NC.
16. Osmond, D.L., D.Hoag and M. Motalebi. 2016. Water Quality Trading in Jordan Lake Watershed: Will it Work? Annual NC WRRI Conference, Raleigh, NC

17. Syomiti, M., D. Hoag, G. Getachew, B. Mugo and D. Wamae. 2015. Evaluation of medicated *Prosopis* spp-based feed blocks for antihelmintic efficacy and performance of weaner lambs. 9th Egerton University International Conference, Kenya.
18. Wakie, Tewodros T., Dana Hoag, Paul H. Evangelista, Matt Luizza, Melinda Laituri. 2015. Economic analysis of *Prosopis juliflora* utilization and management practices in Ethiopia. Ecological Science Association, 100th annual meeting, Baltimore, Maryland.
19. Hoag, Dana, Neil Grigg, Marc Ribaldo, and Misti Sharp (2015) "Project 5: Effective Incentives and Viable Trans-Sector Trading Strategies." Presentation at CLEAN stakeholder meeting. Fort Collins, Colorado. February, 2015.
20. Kawo, Samuel Tuffa and Dana Hoag. 2015. Responses of native grass species to rangeland's stressors: implications for ecosystem services and functions. "Ecology for a Sustainable Future," 45th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland. August 31st to September 4 th, Göttingen, Germany.
21. Kawo, Samuel Tuffa, .C. Treydte, and Dana Hoag. 2015. Effects of clipping frequency and irrigation amount on grass carbon sequestration potential: implications for climate change mitigation and food security, 2d International Conference on Global Food Security. October 11-14, Cornell University, Ithaca, NY.
22. Hoag, D. 2014. East African Pastoralism: Results From 13 Studies Sponsored by the Feed the Future Innovation Lab for Research on Adapting Livestock Systems to Climate Change. Organized Symposium held in Addis Ababa, Ethiopia, October 24th
23. Hoag, D. 2014. Research in East Africa by the Feed the Future Innovation Lab: Adapting livestock to climate change. Presented to Iranian delegation visiting the US for collaboration and information about their project on how climate change effects livestock producers and the environment, C-21 Plant Science Building, August 14.
24. Hoag, D. 2014. How to Publish in Professional Journals. 2014. Workshop for Feed the Future Innovation Lab Scholars, Kenya. University of Nairobi,
25. Hoag, D. 2014. How to Publish in Professional Journals. 2014. Workshop for Feed the Future Innovation Lab Scholars, Ethiopia. International Livestock Research Institute, Addis Ababa.
26. Hoag, D. 2014. Socio-economic and institutional influence on carbon sequestration in grasslands/rangelands. Presented at the Grasslands, Rangelands, Livestock and Climate Resilient Mitigation Workshop, Colorado State University, November.
27. Deanna Osmond, Caela O'Connell, Dan Line, Dana Hoag, and Mazdak Arabi. 2014. Conservation Practice Effectiveness and Producer Adoption Behavior in the Jordan Lake Watershed (North Carolina) . Poster presented at the North Carolina Soil Science Society Meeting, Jan 21 -22
28. Romero, Erica C., Ryan T. Bailey, Timothy K. Gates, Brent Heesemann, Misti Sharp, Dana L. Hoag, and Perry E. Cabot. 2014. Simulating Best Management Practices (BMPs) for Decreasing Selenium in the Lower Arkansas River Valley. Poster, Lower Arkansas River Valley field day, Rocky Ford, CO May 29
29. Sharp, M. and D. Hoag. 2014. Institutional and Economic Complications of River Basin Water Quality Management: The Case of Selenium in Colorado's Lower Arkansas River Valley. Selected Paper prepared for presentation at the Agricultural and Applied

- Economics Association's 2014 AAEA Annual Meeting, Minneapolis, MN, July 27-29, 2014.
30. Sharp, M., D. Hoag and D. Manning. 2014. Dynamically Optimal versus Institutionally Attainable: The Implications of Use-Based Rights for Externality Mitigation. Presented at the Western Agricultural Economics Association Annual Meeting, Colorado Springs, June.
 31. O'connell, Caela, Osmond, Deanna, Hoag, Dana and Motallebi, Marzieh. 2014. "Resistance, Reticence, and Reckoning: Agricultural landholders and decision-making about conservation and nutrient trading" at the 74th Annual Meeting of the Society for Applied Anthropology. March, Albuquerque, New Mexico.
 32. Motallebi, Marzieh, and Dana Hoag. 2014. An Economic Inquisition of When Water Quality Trading Works. Presented at the Western Agricultural Economics Association Annual Meeting, Colorado Springs, June.
 33. Motallebi, Marzieh, and Dana Hoag. 2014. Calculating Innovation Premium of Water Quality Trading for Jordan Lake, NC. Poster presented at the Agricultural and Applied Economics Association's 2014 AAEA Annual Meeting, Minneapolis, MN, July 27-29, 2014.
 34. Motallebi, Marzieh, Dana Hoag, and Caela O'Connell. 2014. Calculating Innovation Premium of Water Quality Trading for Jordan Lake, NC. Presented at Hydrology Days Symposium, Lory Student Center, Colorado State University, Fort Collins, March.
 35. Aklilu Nigussie , Dr. Dana Hoag and Tigist Alemu. 2014. Women workload and their roles in livestock production in pastoral and agro-pastoral communities of Ethiopia: Case of Afar. Second National Conference on Pastoralism, Jigjiga University, Research and Community Service, Hamda Hotel, Februray 26.
 36. Lengarite, M.I., Getachew, G., Akundabweni, L. and Hoag, D. Dry season supplementation of lactating Small East African goats using processed and none processed *Acacia tortilis* and local grass in Northern Kenya. Contributed paper presented at the 6th All Africa Conference on Animal Agriculture, Nairobi, Kenya, October 26-30
 37. Nigussie, A., Hoag, D. and Alemu, T. Women workload and their roles in livestock production in pastoral and agro-pastoral communities of Ethiopia: case of Afar. Contributed paper presented at the 6th All Africa Conference on Animal Agriculture, Nairobi, Kenya, October 26-30
 38. Dabasso, B.H., Zerihun, T. and Hoag, D. Carbon sequestration in a semi-arid pastoral ecosystem of northern Kenya. Contributed paper presented at the 6th All Africa Conference on Animal Agriculture, Nairobi, Kenya, October 26-30
 39. Berhe, M., Hoag, D. and Tesfay, G. Feasibility of biogas digesters in rural farm households: Evidence from cattle producers in the Tigray Region of Northern Ethiopia. Poster presented at the 6th All Africa Conference on Animal Agriculture, Nairobi, Kenya, October 26-30
 40. Syomiti, M., Maranga, E., Obwoyere, G., Gebru, G. and Dana, H. Chemical composition of *Cactus* species and *Prosopis juliflora* as Drought-resilient feed resources in Kenya. Poster presented at the 6th All Africa Conference on Animal Agriculture, Nairobi, Kenya, October 26-30
 41. Beyene, T., Yibeltal, T., Dana, H. and Desta, S. Implications of constrained mobility on livestock production and pastoral livelihoods of Borana Plateau, Southern Ethiopia. Poster

- presented at the 6th All Africa Conference on Animal Agriculture, Nairobi, Kenya, October 26-30
42. Melaku, B. and D. Hoag. 2014. Supplementing Landless Poor Via Hillside Conservation in Tigray. Presented at research Review Seminar organized by Japan International Research Center for Agricultural Sciences (JIRCAS), Mekelle, Ethiopia, January 15, 2014.
 43. Melaku, B. and D. Hoag. 2013. The Livelihood Participation of Landless Participation on Hillside Conservation. Presented at the 3rd National Workshop, Aksum University, Ethiopia, December 24-25.
 44. Melaku, B. and D. Hoag. 2013. The Livelihood Participation of Landless Participation on Hillside Conservation. Presented at the 3rd National Workshop, Aksum University, Ethiopia, December 24-25.
 45. Lengarite M.I., Getachew G., Akudabweni L., D. Hoag. 2014. Supplementary feeding of lactating goats with processed Acacia pods and local grass in northern Kenya. Presented at KARI range programme for joint ALOs, REFs and RRL sub-programmes work plans and budget pre-planning and research review meeting. Machakos, Kenya, 31st March - 3rd April, 2014.
 46. Lengarite, M.I, G. Getachew, L. Akudabweni, D. Hoag. 2014. Dry season supplementation of lactating Small East African goats using processed and none processed Acacia tortilis pods and local grass in northern Kenya. A paper submitted to the All African conference, Nairobi, Kenya.
 47. Margaret Syomiti, Maranga E, Obwoyere G and Dana H. 2014. Nutritional Characterization of Cactus species and Prosopis juliflora as Drought-resilient Feed resources for a Changing climate in Kenya
 48. Syomiti M., Maranga E, Obwoyere G., Gebru G and Dana Hoag. 2014. The Adaptive and Coping Strategies of Pastoralists to Climate Change in Baringo, Laikipia and Nyeri Counties of Kenya. Proceedings of the 8th Egerton University International Conference held between 26th- 28th March, 2014, Egerton University.
 49. Syomiti M., Maranga E, Obwoyere G., Gebru G and Dana H., 2014: Chemical composition of Cactus species and Prosopis juliflora as Drought-resilient Feed resources in Kenya. A draft paper submitted for presentation in the 6th All Africa Conference on Animal Agriculture (AACAA) to be held at Kenyatta International Conference Centre, Nairobi, Kenya on October 27-30, 2014.
 50. Hoag, D. 2013. Professional Development: Publishing and Presentations. Keynote presentation at the All Scientist Meeting of the USAID Feed the Future Innovation Lab, Adapting Livestock Systems to Climate Change, East Africa.
 51. Hoag, D. Risk Navigator. 2013. Seminar presentation, Department of Agricultural and Applied Economics, University of Georgia, Athens.
 52. Hoag, D. Risk Navigator. 2013. Seminar presentation, Department of Agricultural and Resource Economics, North Carolina State University, Raleigh
 53. M. Syomiti., Maranga E., M. Bauni., I.W Kariuki., Dana. H., D. K Wamae1., S. Mutua., C. Gachuri and N. Ndegwa. 2013. Greenhouse gas Mitigation Potential of Biochar and Bentonite in Urea-treated Maize stover-based feed blocks by dairy steers. Paper presented to the 1st EAAPP-Mini Scientific conference held on 12th - 15th November, 2013, KARI Naivasha

54. Motellebi, M. and D. Hoag. 2013. Farmers Willingness to Adopt a Riparian Buffer Zone for Improving Water Quality in Iran: A case study of the Zayande River, IRAN, Annual Meeting, Society of Ecological Economics, Burlington Vermont.
55. Motellebi, M. and D. Hoag. 2013. Farmers Willingness to Adopt a Riparian Buffer Zone for Improving Water Quality in Iran: A case study of the Zayande rood River. Presented at the annual meetings of the Western Agricultural Economics Association, Monterey, CA.
56. Hou, Lingling, Dana Hoag and Changhe Lu . 2013. Effects of Different Agricultural Practices on Sustainable Soil Use in the Loess Plateau of China. Paper presented at the conference: Sustainable Natural Resource Management in Rural China – Governing markets? Nanjing, P.R. China, August, 26 – 28
57. Misti D. Sharp, Dana L. Hoag, Erica C. Romero, Timothy K. Gates, Ryan T. Bailey, and Perry E. Cabot. 2013. Institutional and Economic Complications of River Basin Water Quality Management: The Case of Selenium in Colorado’s Lower Arkansas River Valley. Presented at the Annual meetings of the American Water Resource Association, Portland, OR, July.
58. Erica C. Romero, Ryan T. Bailey, Timothy K. Gates, Misti D. Sharp, Dana L. Hoag, and Perry E. Cabot. 2013. Exploring BMPs for Decreasing Selenium in the Stream-Aquifer System of Colorado's Lower Arkansas River Valley. Presented at the Annual meetings of the American Water Resource Association, Portland, OR, July.
59. Deanna Osmond, Dana Hoag, Caela O’Connell, Dan Line, and Mazdak Arabi. 2013. Conservation Practice Effectiveness and Producer Adoption Behavior in the Jordan Lake Watershed (North Carolina). Poster at the Resilient Landscapes: planning for Flood, Drought and Fire meeting, 68th International Annual Conference of the Soil and Water Conservation Society, Reno, Nevada, July 21-24
60. Syomiti M., Dana H., Maranga E and Obwoyere G.. 2013. Characterization of Local Climate Change Adaptation Strategies in Livestock Feeds and Feeding Systems in Laikipia and Nyeri Counties of Kenya. presented in the Tanzanian Society of Animal Production (TSAP) held on 22nd -25th October, 2013 at Olasit Gardens, Arusha.
61. Margaret Syomiti., Maranga E., Obwoyere G and Dana H. 2013. Characterization of Gender dimensions in Livestock Feeds and Feeding systems in relation to local Climate Change Adaptation Strategies in Baringo County of Kenya” presented in the 1st AFRICA Food Security and Adaptation conference held on August 20-22, 2013 at UNEP building, Gigiri, Nairobi
62. Margaret Syomiti, Maranga E., M. Bauni., I.W Kariuki., Dana. Hoag, D. K Wamae., S. Mutua., C. Gachuiru and N. Ndegwa., 2013. Greenhouse gas Mitigation Potential of Biochar and Bentonite in Urea-treated Maize stover-based feed blocks by dairy steers ” presented in the EAAPP Mini-Conference held on 29th - 31st October 2013 at Morendat Hotel, Naivasha.
63. Syomiti M., Dana H., Maranga E and Obwoyere G., 2013: Characterization of Local Climate Change Adaptation Strategies in Livestock Feeds and Feeding Systems in Laikipia and Nyeri Counties of Kenya. presented in the Tanzanian Society of Animal Production (TSAP) held on 22nd -25th October, 2013 at Olasit Gardens, Arusha.
64. Margaret Syomiti., Maranga E., Obwoyere G and Dana H, 2013: Characterization of Gender dimensions in Livestock Feeds and Feeding systems in relation to local Climate Change Adaptation Strategies in Baringo County of Kenya” presented in the 1st AFRICA

- Food Security and Adaptation conference held on August 20-22, 2013 at UNEP building, Gigiri, Nairobi.
65. Margaret Syomiti., Maranga E. Obwoyere G and Dana H., 2013: Characterization of Local Climate Change Adaptation Strategies in Livestock Feeds and Feeding Systems in Baringo County, Kenya presented in the at the CSDES (Centre for Sustainable Dryland Ecosystems and Societies) 1st Student-Led Conference held on 29-30th May, 2013, University of Nairobi, College of Agriculture and Veterinary Sciences (CAVS).
 66. Osmond, D., D. Meals, D. Hoag, M. Arabi, A. Luloff, G. Jennings, M. McFarland, J. Spooner, A. Sharpley, and D. Line. 2012. Learning from NIFA CEAP: Water Quality Monitoring and Modeling. Annual Soil and Water Conservation Society Meeting, July 22-25.
 67. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, J. Spooner, D. Line, M. McFarland, and A. Sharpley. 2012. Conservation Practices and Water Quality: The NIFA-CEAP Experience. ASA, CCSA, SSSA Annual Meeting. Cincinnati, OH.(poster)
 68. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, J. Spooner, D. Line, M. McFarland, and A. Sharpley. 2012. The NIFA-CEAP Synthesis and Lessons Learned for Conservation-Water Quality Projects. 20th Annual Nonpoint Source Monitoring Workshop. Tulsa, OK.
 69. C.Keske, Brandess, A., Hoag, D., and Pearson, C. 2012. "Economic Feasibility of Bio-Butanol On Marginal Agricultural Lands in Western Colorado." Poster prepared for presentation at the Agricultural & Applied Economics Association's 2012 AAEA Annual Meeting, Seattle, Washington, August 12-14, 2012.
 70. Deanna Osmond, Donald W. Meals, Dana Hoag, Mazdak Arabi, A.E. Luloff, Greg Jenning, Mark McFarland, Jean Spooner, Andrew Sharpley and Daniel Line. September 2012. Conservation Practices and Water Quality: The NIFA-CEAP Experience, Special presentation to Chief of the Natural Resource Conservation Service, Washington, D.c.
 71. Osmond, Deanna, Dana Hoag et al. Analysis of Conservation Practice Effectiveness and Producer Adoption Behavior in the Lake Jordan Watershed (North Carolina). Paper ID 8 in conference track "Water Resources Research, Education, and Outreach (NIFA Land Grant/Sea Grant 406 and NRI)"
 72. Evans, S., D. Hoag, R. Sands and J. Beckman. 2012. Unintended Consequences of the U.S. Bioenergy Program: Tradeoffs in Global Agricultural and Energy Commodity Markets. Presentation at the annual meetings of the Agricultural and Applied Economics Association, August, Seattle, Washington
 73. Hou, Lingling and Dana Hoag. 2012. Dynamic Impacts on Food Security from Soil Erosion in China. Presentation at the annual meetings of the Agricultural and Applied Economics Association, Chinese Special Section. August, Seattle, Washington
 74. Brandass, A., C. Keske, D. Hoag and C. Pearson. 2012. Profitability of Camelina Sativa as a Biofuel Feedstock in Northeastern Colorado." Presentation at the annual meetings of the Western Agricultural Economics Association, June 20-22, in Park City Utah.
 75. Evans, S. D. Hoag. 2012. The U.S. Renewable Fuels Program: A Global Welfare Decomposition. Selected paper presentation, Annual meetings of the Western Agricultural Economics Association, Park City, Utah, June 20-21

76. Hou, Lingling, Dana Hoag and Mazdak Arabi. 2012. A National Assessment of the Long-term Productivity Impacts from Soil Erosion in China. Selected paper presentation, Annual meetings of the Western Agricultural Economics Association, Park City, Utah, June 20-21
77. C.Keske, Brandess, A., Hoag, D., and Pearson, C. 2012. "Economic Feasibility of Bio-Butanol On Marginal Agricultural Lands in Western Colorado." Poster prepared for presentation at the Agricultural & Applied Economics Association's 2012 AAEA Annual Meeting, Seattle, Washington, August 12-14, 2012.
78. Bastian, C., D. Hoag and others. 2011. Land Trusts' Demand for Conservation Easements in the Intermountain West" Presented at the annual meeting for the Western Agricultural Economics Association, Banff, Canada, July 1.
79. Hoag, D., D. Osmond, D. Meals, A. Luloff, M. Arabi, M. McFarland, G. Jennings, A. Sharpley, J. Spooner, and D. Line. 2011. How Effective Are National Soil Conservation Programs? Presented at the annual meeting for the Western Agricultural Economics Association, Banff, Canada, July 1.
80. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, M. McFarland, A. Sharpley, J. Spooner, and D. Line. 2011. Targeting Vulnerable Landscapes: Land Treatment and Modeling. 2011 Land and Sea Grant Water Conference, Washington, DC.
81. Meals, D., D. Osmond, D. Hoag, M. Arabi, G. Jennings, M. McFarland, A. Sharpley, J. Spooner, D. Line, and A. Luloff,. 2011. Documenting the Effects of Conservation: Monitoring and Modeling. 2011 Land and Sea Grant Water Conference, Washington, DC.
82. Osmond, D.L., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, M. McFarland, A. Sharpley, J. Spooner, and D. Line. 2011. Controlling Nutrients and Sediment in Agriculture Watersheds: Lessons Learned from the CEAP Watershed Studies. US EPA Office of Water, Washington, DC
83. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, M. McFarland, J. Spooner, A. Sharpley, D. Line. 2011. Controlling Phosphorus: Lessons Learned from NIFA-CEAP Projects. SERA-17 Annual Meeting, Del Ray, FL.
84. Hoag, D., A. Luloff, and D. Osmond. 2011. Adopting and Sustaining Conservation: Effective Outreach. 2011 Land and Sea Grant Water Conference, Washington, DC.
85. Osmond, D.L., A.E. Luloff, and D. Hoag. 2011. Farmers Perspectives vs Agency Perspectives: the NIFA-CEAP Key Informant Interview. 2011 Annual Soil and Water Conservation Society Conference. Washington, DC (oral)
86. Woods, B.R., A.E. Luloff, D.L. Osmond, and D. Hoag. 2011. Towards a Synthesis: Lessons from the 13 CEAP Projects. Annual ISSRM Meeting, June 4-8, 2011. Madison, WI. (oral)
87. Osmond, D.L., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, M. McFarland, A. Sharpley, J. Spooner, and D. Line. 2011. Invited Keynote Speaker. Can Conservation Practices Protect Water Quality: Lessons Learned from the USDA-NIFA CEAP Project. 2011 Kansas Watershed Restoration and Protection Strategy Conference. April 26, 2011, Junction City, KS.
88. Osmond, D., D. Meals, D. Hoag, et al., 2010. Measuring Conservation Effectiveness Across Agricultural Landscapes. Managing Ag Landscapes II, Denver, Co

89. Hoag, D. A. Luloff and D. Osmond. 2010. NIFA-CEAP key information survey results. Land Grant and Sea Grant National Water Conference, February 21-25, Hilton Head, South Carolina
90. Hou, Lingling, D. Hoag and Y. Mu. 2010. Adverse Selection of Crop Insurance in Miyun County. Presented at the annual conference of the Chinese Economists Society, Xiamen, China.
91. Hou, Lingling, D. Hoag and Y. Mu. 2010. Testing the Existence of Adverse Selection in Subsidized Crop Insurance Markets in China. Presented at the Agricultural, International Conference on Agricultural Risk and Food Security, Beijing, China, June 10-13
92. Gascoigne, Billy, Dana Hoag, Lynne Koontz, B. Tangen, T. Shaffer and R. Gleason. 2011. Valuing Ecosystem and Economic Services across Land-Use Scenarios in the Prairie Potholes” 2010 ACES , December 6-9, 2010 in Phoenix, Arizona, USA.
93. McGaffin, G., C. T. Bastian, P. Dewell, C. M. Keske, C. West, D. L. Hoag, and D. M. McLeod. “Do Landowners Trust Land Trusts? Debunking Myths on Landowner Conservation Easement Preferences.” Selected workshop presentation. The National Land Conservation Conference. October 2-5, 2010. Hartford Connecticut. (Presented by McGaffin, Bastian, Dewell, and West).
94. Osmond, D. Luloff, A., D. Hoag. 2010. NIFA-CEAP Key Informant Interviews: What We Learned. USDA CEAP Steering Committee. Washington, DC.
95. Osmond, D.L., D. Meals, M. Arabi, D. Hoag, A. Luloff, A. Sharpley, G. Jennings, M. McFarland, J. Spooner, D. Line. 2010 Briefing to Chief White of NRCS on Lessons Learned, Washington, DC.- June.
96. Osmond, D.L., D. Meals, M. Arabi, D. Hoag, A. Luloff, A. Sharpley, G. Jennings, M. McFarland, J. Spooner, D. Line. 2010. Briefing to NRCS on Lessons Learned, Washington, DC.- May.
97. Osmond, D.L., D.L., D. Meals, M. Arabi, D. Hoag, A. Luloff, A. Sharpley, D. Line, G. Jennings, M. McFarland, and J. Spooner. 2010. Conservation Practice Effectiveness and Water Quality. 2010 WRI Iowa Conference, Ames, IA.
98. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, A. Sharpley, M. McFarland, J. Spooner, D. Line. 2010. CSREES-CEAP Synthesis: Preliminary Lessons on Protecting Water Quality. 2010 Annual Soil and Water Conservation Society Conference. St. Louis, MO.
99. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, M. McFarland, A. Sharpley, J. Spooner, D. Line. 2010. Landscape-scale Conservation Projects: CEAP, A Case Study. Managing Ag Landscapes II, Denver, CO.
100. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, A. Sharpley, M. McFarland, J. Spooner, D. Line. Developing Lessons Learned from the 13-CSREES CEAP projects. 2010 USDA Water Conference. Hilton Head, SC.
101. Luloff, A., D. Hoag, D. Osmond. CSREES-CEAP Key Informant Results. 2010 USDA Water Conference. Hilton Head, SC.
102. Hoag, D. (organizer and speaker) Microeconomics in Service of Humanity: A Symposium in Honor of Doug Young’s Career. Pre-Conference symposium, Western Agricultural Economics Association, Kauai, Hawaii, June, 2009.

103. McGaffin, Graham Donald M. McLeod, Christopher T. Bastian, Catherine M. Keske, and Dana L. Hoag. Identifying Influential Factors for Colorado and Wyoming Landowners Regarding Conservation Easement Acceptance. Selected paper, Western Agricultural Economics Association, Kauai, Hawaii, 2009.
104. Hoag, D., K. McCulloch, and Jay Parsons. Profit Determinants for Using Sexed Semen Technology in Dairy. Selected paper, Western Agricultural Economics Association, Kauai, Hawaii, 2009.
105. Osmond, D.L., D. Meals, M. Arabi, D. Hoag, A. Luloff, A. Sharpley, D. Line, G. Jennings, M. McFarland, and J. Spooner. 2009. Initial Progress of the CEAP Synthesis: Year One. USDA Water Conference. St. Louis, MO.
106. McLeod, D., C. Bastian, C. Keske and D. Hoag. The market for conservation easements: evidence from stated choice surveys in the West. Present at the W2133 annual meeting, Austin, TX, March, 2009
107. Hoag, D., A. LuLoff and D. Osmond. CEAP Synthesis: Preliminary Key Informant Interviews. USDA-CSREES National Water Conference, St Louis, MO, Feb 2009
108. Luloff, A. D. Hoag and D. Osmond. What makes conservation work? Lessons from key information interviews. USDA-CSREES National Water Conference, St Louis, MO, Feb 2009
109. Hoag, D. et al.. Initial Progress of the CEAP Synthesis Project: Year 1. USDA-CSREES National Water Conference, St Louis, MO, Feb 2009.
110. McLeod, D., C. Bastian, C. Keske, and D. Hoag. 2009. Markets for Conservation Easements: Evidence from stated choice surveys in the West. W-2133 Research Meeting, Austin, TX.
111. Parsons, Jay, Duane Griffith and Dana Hoag. Risk Navigator SRM: A Ten-Step Process for Strategic Risk Management. INFORMS Annual Meeting, San Diego, CA, October, 2009.
112. Osmond, D., D. Meals, M. Arabi, D. Hoag, A. Luloff, G. Jennings, D. Line, M. McFarland, A. Sharpley, and J. Spooner. 2009. The CSREES-CEAP Synthesis and Preliminary Lessons Learned. 17th National Nonpoint Source Monitoring Workshop. New Orleans, LA.
113. Evans, S., C. Keske and D. Hoag. Economic Feasibility of Anaerobic Digesters in the Mountain West 2009. Institute for Livestock and the Environment Stakeholder Summit, Colorado State University.
114. Hoag, D. 2009. Wildlife Costs to Colorado Agriculture. Institute for Livestock and the Environment Stakeholder Summit, Colorado State University.
115. Goldbach, R., C. Keske and D. Hoag. Gender Differences in Producers? Perceived and Revealed Risk-Taking Behaviors. Selected paper session at the Western Agricultural Economics Association Annual Meeting in Big Sky, MT. June, 25-27, 2008.
116. Bastian, C., E. Miller, D. McCloud, C. Keske and D. Hoag. Determinants of Agricultural Landowners? Willingness to Supply Open Space Through Conservation Easements. Selected paper, American Agricultural Economics Association, Orlando, Florida, 2008.

117. Parsons, J., R. Sharp, and D. Hoag. "Managing Your Risk through Insurance Workshop." Presented at the 2008 American Sheep Industry/National Lamb Feeders Association Annual Convention. Las Vegas, NV. January 24, 2008
118. Bastian, C.T., C.M. Keske, S. Swallow, D. L. Hoag, E. Uchida, C. Anderson, D.M. McLeod, and A.D. Miller. WAEA Invited Symposium: "Emerging Markets for Environmental Goods: Can the Market Solve Such Problems?" Western Agricultural Economic Association Annual Conference, Big Sky, Montana. June 25-27, 2008.
119. Bastian, C. T., D. M. McLeod, D. L. Hoag, C. M. Keske, and A. D. Miller. "Factors Affecting Rural Land Preservation: Agricultural Production and Amenity Preservation Through Emerging Markets," USDA National Research Initiative Grant Program Project Directors Meeting, New Hampshire. July 28, 2008.
120. Hoag, D. Economic and Social Dimensions. Conservation Efficacy Assessment Program, CSREES National Water Conference, Reno, Nevada, 2008
121. The Economics of Risk. Presented at the University of Denver Law School, 2008
122. Miller, A., C. T. Bastian, D. M. McLeod, C. M. Keske and D. L. Hoag. "Agricultural Landowners' Preferences for Conservation Easements and Conserving Amenities," Selected paper presentation. International Symposium on Society and Resource Management 2007 meeting. Park City UT. June 17-21.
123. Keske, C. M., D. L. Hoag, C. T. Bastian, A. Miller, and D. M. McLeod. "What Are Landowners and Land Trusts Trying to Preserve with Conservation Easements? A Simultaneous Examination of Buyers and Sellers", Selected paper session at the AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.
124. Keske, C.M., D. L. Hoag and C. T. Bastian. "Internalizing externalities when there are significant private non-market rents", Selected Paper session at the AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.
125. Bastian, C. T., D. M. McLeod, D. L. Hoag, C. M. Keske, and A. D. Miller. "Factors Affecting Rural Land Preservation: Agricultural Production and Amenity Preservation Through Emerging Markets," Selected Poster session presented at the Rural Sociological Society Annual meetings in Santa Clara, CA, August 2-5, 2007.
126. Fatherahman, Eihab, Dana Hoag and Steve Davies. The Impact Of Research Returns Across Time And Space: A Computable General Equilibrium Study of Cattle Research in Colorado, Selected Paper session at the AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.
127. Fathelrahman Eihab, Dana L. Hoag, and Stephen Davies. The Impact Of Research Returns Across Time And Space: A Computable General Equilibrium Study of Cattle Research in Colorado. NC – 1034 conference on Agricultural Research, Intellectual Property and Incentives for Innovation, Berkley, California, March, 2007
128. Koontz, Lynne and Dana Hoag. Disparate Stakeholder Management of Wildlife Issues in the Southern Greater Yellowstone Area Selected Paper session at the AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.
129. Parsons, Parsons, J. and D. Hoag. "Using Simulations to Teach Risk Management to Farmers and Ranchers." Invited presentation at the INFORMS International Conference. Rio Grande, Puerto Rico. July 9, 2007.

130. Parsons, Jay and Dana Hoag. Ag Survivor and Strategic Risk Management. National Extension Risk Management Education Conference. Phoenix, Arizona, April, 2007
131. Fathelrahman Eihab Using James C. Ascough II Dana Hoag Ramesh Kanwar and Philip Heilman Multivariate Stochastic Dominance for Empirical Evaluation of Water Quality Tradeoffs at the Farm Level. In Integrated assessment of agricultural systems: environmental and socio-economic trade-offs II, Farming Systems Design Conference, ASA-CSSA-SSSA International Annual Meetings, Sicily, Italy (November 4-8, 2007).
132. Fathelrahman Eihab Using James C. Ascough II and Dana Hoag. Using the Response Surface Method (RSM) for Economic and Environmental Tradeoffs. In Integrated assessment of agricultural systems: environmental and socio-economic trade-offs II, Farming Systems Design Conference, ASA-CSSA-SSSA International Annual Meetings, Sicily, Italy (November 4-8, 2007).
133. Land Grant Discussion #11, Saving the Cooperative Extension Service: Economic Principles, January 26, 2006. 2 - 3 PM, Room 3455 Waterfront Centre, 800 9th Street, SW, Washington, DC 20024
134. Bastian, C. T., D. M. McLeod, D. L. Hoag and C. M. Keske. "Factors Affecting Conservation Easements for Rural Land Preservation: Agricultural Production and Amenity Preservation in Emerging Markets," Poster presented at the USDA NRI CGP Rural Development Project Director Meeting. February 12-13, 2006. Washington, D.C.
135. Hoag, Dana. (with Neil Gow, Marv Pangborn, and Keith Woodford). Farming without subsidies: A postscript from New Zealand. Organized Symposium (Organizer and moderator), annual meeting of the Western Agricultural Economics Association, Anchorage, Alaska, June 2006.
136. Hoag, D., C. Keske and M. Lacy. Utilizing Out of Sample Data to Determine the Impact of Tax Policy on Conservation Easement Transactions. Selected paper at the annual meeting of the Western Agricultural Economics Association, Anchorage, Alaska, June 2006.
137. Keske, C., D. Hoag, C. Bastian and D. McLeod. Waste Not Want Not: Refocusing the Focus Group to Simultaneously Produce a Case Study and to Design a Random Utility Model Survey Instrument. Selected paper at the annual meeting of the Western Agricultural Economics Association, Anchorage, Alaska, June 2006.
138. Keske, C. and D. Hoag. What did the market tell us about land conservation? An economic study of landowners and land trusts. DARE Seminar Series, Colorado State University, October, 2006.
139. Keske, C., D. Hoag, C. Bastian and D. McLeod. (2006) What did your peers tell us about land conservation. Annual conference of the Land Trust Alliance, Nashville, TN.
140. Rightrisk simulation workshop, Department of Farm Management, Lincoln University, Canterbury, New Zealand, 2005
141. Davies, Stephen P., Kenneth Erickson, Steve Vickner, Dana Hoag, and Richard Nehring. 2005. An Error-Components Three-Stage Least-Squares Model of Investment Allocation by Farm Households. Selected Paper for presentation at the AAEA annual meeting Providence, RI

142. Stephen P. Davies, Ken Erickson, Steven S. Vickner, Dana Hoag and Richard Nehring. Perspectives on the Investment Patterns of US Farm Households, Western Agricultural Economics Association Annual Meeting, 2005
143. Ken Erickson, Stephen P. Davies, Dana Hoag, Steven S. Vickner and Richard Nehring. A Simultaneous Equations Panel Data Econometric Model of the Financial Economic Well-Being of Farm Households, 2005 Western Agricultural Economics Association Annual Meeting
144. Chinnappa Reddy, B.V., Dana Hoag, B.S. Shobha. 2004. Economic Incentives For Soil Conservation In India. Presented at the 13th International Soil and Water Conservation Organization Conference, Brisbane, Australia, July 4-9.
145. Hoag, Dana L. and Paul Huszar. 2004. The Economists' Viewpoint On Conservation Incentives. Presented at the 13th International Soil and Water Conservation Organization Conference, Brisbane, Australia, July 4-9.
146. Hoag, Dana L. 2004. Economic Incentives For Soil Conservation In The United States. Presented at the 13th International Soil and Water Conservation Organization Conference, Brisbane, Australia, July 4-9.
147. Parsons Jay and Dana L. Hoag. 2004. Variable Productivity within Groups and the Jensen Effect. Paper presented at the Western Agricultural Economics Association annual meeting, Honolulu, Hawaii, June 30-July2.
148. Lambert, Heather, Sue Hine, Dana Hoag, and Mike Lacy. A Demand Study: How Producers in Eastern Colorado Value and Demand Livestock Manure. Paper presented at the Western Agricultural Economics Association annual meeting, Honolulu, Hawaii, June 30-July2.
149. Hoag, Dana and Jay Parsons. 2004. RightRisk™ Risk Management Software. Invited symposium entitled Multi-State Risk Management Education Efforts in the West: Challenges and Funding Opportunities, Western Agricultural Economics Association annual meeting, Honolulu, Hawaii, June 30-July2
150. Hoag, Dana. Risk Management Using Climate Data. Presented Climate Services regional meeting, National Weather Service, August 2004, Boulder Colorado
151. Garner, Elizabeth, Dana L. Hoag, and Andrew F. Seidl. Taxation and open access competition for land among municipalities. Paper presented at "Colorado's Future: How Can We Meet the Needs of a Changing State?" Sponsored by the Center for Colorado Policy Studies at the University of Colorado at Colorado Springs, October, 2003.
152. Hoag, D. (with R. Kling and A. Marshall). Efficient Pricing of Conservation Easements: Accounting for the Conservation Values of Both Holders and Grantors", American Association for the Advancement of Science, Denver, February 2003.
153. Hoag, D. and J. Parsons. RightRisk: An educational simulator to teach risk management. Presented at National Extension Risk Management Education Program Conference, Dallas/Fort Worth, March 26-27, 2003
154. Parsons, J. and D. Hoag. Risk Management Education in the West using RightRisk. Presented at the annual meeting of the Western Agricultural Economics Association, Denver, CO, July 2003

155. Hoag, D., M. Lacy and J. Davis. Beef manure management in the great plains. Presented in the Department of Soil and Crop Science, Colorado State University, May 8, 2003.
156. Conradie, Beatrice and Dana Hoag. The Cost of Meeting Equity: Opportunity Cost of Irrigation in the Fish-Sundays Scheme of South Africa. Contributed paper selected for presentation at the 25th International Conference of Agricultural Economists, 16-22 August 2003, Durban South Africa
157. Andrew Marshall, Dana Hoag & Andrew Seidl. Landowner Satisfaction With Conservation Easements. Presented at Compensatory Options for Conserving Agricultural Land: A Research and Policy Conference. April 14, 2003, Sacramento, CA.
158. Hoag, D. Return on Investment Results. Research Center Conference, Colorado Experiment Station, January, 2002
159. Caughlan, L. and D. Hoag. Stakeholder Preferences for Bison and Elk Management. Presented to the EIS planning team, Jackson Hole, Wyoming, (June 2002)
160. Hoag, Dana. Risk Management in Forage Production Systems. Main session speaker, Western Alfalfa & Forage Conference, Reno, Nevada (December 11-13, 2002)
161. Parsons, Jay, and Dana Hoag. Optimizing in the Presence of Variable Growth Paths in livestock. Annual meeting of the Western Agricultural Economics Association, July 28-31, 2002, Long Beach, California.
162. Engler, Alejandra and Dana Hoag. Financial tools that address risk and stability: An application to deforestation. Annual meeting of the Western Agricultural Economics Association, July 28-31, 2002, Long Beach, California.
163. Engler, Alejandra and Dana Hoag. Disentangling Risk Preferences from Elasticity of Intertemporal Substitution in Technology Adoption Decisions: Results and Policy Implications. Annual meeting of the Western Agricultural Economics Association, July 28-31, 2002, Long Beach, California.
164. Ascough, James, II, Harriet D. Rector, Dana L. Hoag, Gregory S. McMaster, Bruce C. Vandenberg, Marvin J. Shaffer, Mark A. Weltz, and Lajpat R. Ahjua Multicriteria Decision Support Systems: Overview, Applications and Future Research Directions. Biennial meeting of the International Environmental Modeling Society, MODSS special session (Multiobjective Decision Support Systems), Lugano, Switzerland, June 24-27, 2002.
165. Ascough, James C. II, Dana L. Hoag, and Alejandra Engler-Palma. Evaluating Agricultural Systems for Sustainability Using an Impact Matrix Approach. Biennial meeting of the International Environmental Modeling Society, MODSS special session (Multiobjective Decision Support Systems), Lugano, Switzerland, June 24-27, 2002.
166. McMaster, Gregory S., James C. Ascough, II, Marvin J. Shaffer, Gale A. Dunn, Mark A. Weltz, Dana L. Hoag, and Lajpat R. Ahuja. GPFARM: An Agricultural Decision Support System for Integrating Science, Economics, Resource Use, and Environmental Impacts. Biennial meeting of the International Environmental Modeling Society, MODSS special session (Multiobjective Decision Support Systems), Lugano, Switzerland, June 24-27, 2002.

167. Parsons, Jay. A computerized risk simulation for farmers and ranchers. Paper submitted for consideration at the annual meeting of the Western Agricultural Economics Association, July 28-31, 2002, Long Beach, California.
168. Caughlan, Lynne, and Dana Hoag. Feeding elk in Greater Yellowstone: A case study in ex ante group decision support. Biennial meeting of the International Environmental Modeling Society, MODSS special session (Multiobjective Decision Support Systems), Lugano, Switzerland, June 24-27, 2002.
169. Garner, E., D. Hoag and A. Seidl. Taxation and Competition for Land Among Municipalities. Colorado's Future: How Can We Meet the Needs of a Changing State? Sponsored by the Center for Colorado Policy Studies, University of Colorado at Colorado Springs, September, 2002.
170. Conradie, BI. 2002. Opportunities for Reforming the Irrigation Sector: The Case of the Fish-Sundays Scheme of the Eastern Cape. Paper presented to the Poverty and Water Workshop held on the 23-24 April 2002, University of Natal's Comparative Research Programme on Poverty.
171. Marshall, Andrew, Dana Hoag, and Andrew Seidl. Landowner Satisfaction with Conservation Easements in Colorado. Selected Paper, Annual Meeting of the Western Agricultural Economics Association, Logan, Utah, 2001.
172. Fathelrahman, Eihab, Dana Hoag, and Steve Davies. Return and Spillover of Colorado Beef Research and Development - A Computable General Equilibrium Model. Selected Paper, Annual Meeting of the Western Agricultural Economics Association, Logan, Utah, 2001.
173. Engler-Palma, Alejandra and Dana Hoag. Disentangling cash flow and risk to develop new financial instruments. Selected Paper, Annual Meeting of the Western Agricultural Economics Association, Logan, Utah, 2001.
174. Parsons, Jay R., Dana L. Hoag and Stephen R. Koontz. Economics of Variable Swine Growth. Selected Paper, Annual Meeting of the Western Agricultural Economics Association, Logan, Utah, 2001.
175. Fathelrahman, Eihab, Dana Hoag, and Steve Davies. Selected paper at the 17th Annual Pacific Conference of the Regional Science Association International, Portland, Oregon, June 2001.
176. Reddy, Chinnappa. Hoag, Dana, and Manjunatha Reddy. An Analysis of Indian Farmers' Attitudes and Willingness to Participate in a Compulsory Soil Conservation Program. Selected paper presented at the Regulating Sustainable Land Use Session (VIII), Third International Conference on Land Degradation, Brazil, September, 2001.
177. Garner, E., D. Hoag, and A. Seidl. Cooperative solutions to open access problems among municipalities. Seminar, lunchtime series, Department of Agricultural and Resource Economics, Colorado State University, Fort Collins, 2000.
178. Popp, Jennie, Dana Hoag and Karen Strain. "Measuring the Sustainability of Soil Management Using an Index of Soil Quality" Poster presentation at the annual meeting of the Soil and Water Conservation Society, St. Louis MO, July 8-12, 2000
179. Garner, E., A. Seidl and D. Hoag. Cooperative Solutions to Open Access Competition for Land Among Municipalities." Selected paper, Western Agricultural Economics Association, Vancouver, British Columbia, June 30-July1, 2000.

180. Koontz, S., D. Hoag, J. Walker and J. Brethour. Marketing Returns to Timing and Sorting Feedlot Cattle. Annual meetings of the Western Agricultural Economics Association, Van Cover, British Columbia, June 29-July 1, 2000.
181. Hoag, D. Seven Crises in Agriculture. Agricultural and Resource Economics lunch time seminar, November, 3, 1999.
182. Vickner, S.S., D.L. Hoag, W.M. Frasier, and J.C. Ascough II. "Estimating the Economic Benefits of Uniformity-Improving Capital Investments in Irrigated Crop Enterprises: Implications for Producer Profits and Resource Conservation." American Farm Bureau Federation's 80th Annual Convention, January 11-12, 1999, Albuquerque, NM.
183. Popp, J., D. Hoag and J. Ascough. Sustainable Soil Management: A Framework for Analysis, Presented at the 10th International Soil Conservation Organization Conference, Sustaining the Global Farm Local Action for Land Stewardship, May 23-28, 1999, Purdue University, West LaFayette, IN.
184. Popp, Jennie Hughes and Dana Hoag. "Guidelines for the Sustainable Management of Heterogeneous Natural Resources." Presented at the 2nd International Conference on Multiple Objective Decision Support Systems for Land, Water and Environmental Management. Brisbane, Australia, August 1-5, 1999.
185. Hoag, Dana, Shauna Page, and James Ascough. "Using The Analytical Hierarchy Process To Determine Economic And Environmental Tradeoffs On Farms." Present at the 2nd International Conference on Multiple Objective Decision Support Systems for Land, Water and Environmental Management. Brisbane, Australia, August 1-5, 1999.
186. Frasier, M., B. Conradie, D. Hoag, "Theoretical and Empirical Implications of Increasing Block Rates", 26th Annual conference of the Water Resources Planning and Management Division of the American Society of Civil Engineers, Tempe, AZ, June 6-9, 1999.
187. Conradie, B., M. Frasier, and D. Hoag. 1998. Increasing block pricing and residential water demand: challenges in estimation and practice. Contributed paper to the Symposium of the International Association of Agricultural Economists. Badplaas, South Africa, August 10-16.
188. Popp, Jennie Hughes and Dana Hoag. 1998. "Sustainable Resource Management: A Methodology for Analysis" Presented at the American Agricultural Economics Association Annual Meeting, Salt Lake City, Utah, August 2-5.
189. Hoag, D. Approaches to Ecological Assessment. Presented the U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, January 1998.
190. Popp, J. and D. Hoag. The Economic, Environmental & Social Impacts of Sustainable Resource Management : An Application to Soil Quality for Agricultural Production. Presented in the Department of Soil Science, North Carolina State University, Raleigh, January, 1998.
191. White, D. and D. Hoag. Cash Flow Uniformity and Profit Maximization: An Analysis of Agriculture and Agroforestry Systems on Marginal Lands. Presented paper at CIAT (Centro Internacional de Agricultura Tropical) Cali, Colombia, 14 October 1997.
192. Hoag, D. , E. Hornbrook and T. Van Doren. The political economy of agricultural PACs, contributed paper, Western Association of Agricultural Economics, Annual Meeting, Reno, NV, 1997.

193. Hornbrook, E. and D. Hoag. The measurement of agricultural contribution, contributed paper, Western Association of Agricultural Economics, Annual Meeting, Reno, NV, 1997.
194. Hoag, D. and J. Hughes. The theory and practice of pollution credit trading in water quality management. Annual meeting of the American Agricultural Economics Association, Toronto, Ontario, Canada, 1997.
195. Hoag, D. How PAC contributions effect political behavior toward agricultural legislation. Seminar, Department of Agricultural and Resource Economics, Colorado State University, November, 1996
196. Hoag, D., S. Vickner, and M. Frasier. 1996. A dynamic economic analysis of nitrate leaching in corn production under nonuniform irrigation conditions. Annual meeting of the American Agricultural Economics Association, San Antonio, Texas.
197. Roka, F., D. Hoag, and S. Vickner. 1996. Response surface methodology for modeling complex systems. Annual meeting of the American Agricultural Economics Association, San Antonio, Texas.
198. Hoag, D. and J. Fenwick. Sustainable Agriculture and the 1996 Farm Bill. Presented to the Agribusiness and Agronomy Clubs, CSU campus, Fort Collins, April, 1996.
199. Skold, M. and D. Hoag. Policies for sustainability and their effect on sector and regional economic performance. Presented at the annual meeting of the Western Regional Science Association, Napa, California, February, 1996.
200. Hughes, J., and D. Hoag. The theory and practice of pollution credit trading in water quality management. Presented at the Natural resource and agricultural economics seminar series, Colorado State University, Ft Collins, February, 1996.
201. Hoag, D. Economics of Organizing for Development. Presented at the Participatory Process for Sustainable Development course, Colorado State University and the Consortium for Sustainable Village-Based Development, November, 1995, Fort Collins, Colorado.
202. White, D. and D. Hoag. Forest, Agriculture and Agroforestry Systems on Marginal Lands: A
203. Profitability and Cash Flow Uniformity Analysis. Western Agricultural Economics Association Annual Meeting, Rapid City, SD, July 1995.
204. Hoag, D. and J. Hughes. 1995. Choices for the CRP: Research Results and Group Agendas. Annual meeting of the Western Agricultural Economics Association, Rapid City, South Dakota.
205. Hughes, J., P. Huszar, and D. Hoag. 1995. An economic evaluation of the conservation reserve program's impacts on wind erosion in the West. Annual meeting of the Western Agricultural Economics Association, Rapid City, South Dakota.
206. Vickner, S., D. Hoag, and M. Frasier. 1995. A dynamic optimization model for policy analysis of nitrate leaching in irrigated corn production. Annual meeting of the American Agricultural Economics Association, Indianapolis, Indiana
207. Hoag, D., S. Vickner and M. Frasier. 1995. Response Surface Methodology as a Means of Reducing the Costs of Biophysical Simulation. Proceedings paper and poster paper at the Workshop on Computer Applications in Water Management, May, Ft. Collins, Colorado.

208. Liu, S. and D. Hoag. 1995. Models for estimating groundwater contamination potential from agricultural pesticides. Proceedings paper and poster paper at the Workshop on Computer Applications in Water Management, May, Ft. Collins, Colorado.
209. Hoag, D. 1995. PEET: Pesticide Economic and Environmental Tradeoffs. Computer demonstration at the Workshop on Computer Applications in Water Management, May, Ft. Collins, Colorado.
210. Hornsby, A., D. Hoag, and D. Nofziger. 1995. Pesticide economic and environmental tradeoffs: user's perspective. First International Conference on Multiple Objective Decision Support Systems for Land, Water, and Environmental Management: Concepts, Approaches, and Applications, Honolulu, Hawaii, July.
211. Hoag, D. and S. Vickner. 1995. Advances in Ration Formulation for Beef Cattle Through Multiple Objective Decision Support Systems, First International Conference on Multiple Objective Decision Support Systems for Land, Water, and Environmental Management: Concepts, Approaches, and Applications, Honolulu, Hawaii, July.
212. Hoag, D. 1994. Agriculture's Impact on the Economy: A Survey of State Reports, Dana Hoag and Joan Fulton, organizers, Dana Hoag, Moderator, Joan Fulton, Mike Walden, Sam Cordes, and Alex Majchrowicz, presenters, annual meeting of the American Agricultural Economics Association, San Diego, CA.
213. Fulton, J. and D. Hoag. 1994. An Overview of State Activities. In "Agriculture's Impact on the Economy: A Survey of State Reports," annual meeting of the American Agricultural Economics Association, San Diego, CA.
214. Hoag, D. and F. Roka. 1994. *Environmental Policy and Manure Management*. Great Plains Animal Waste Conference on Confined Animal Production and Water Quality, Denver.
215. Roka, F. and D. Hoag. 1994. *Manure and Live Weight Swine Decisions*. Great Plains Animal Waste Conference on Confined Animal Production and Water Quality, Denver.
216. Hughes, Jennie, Paul Huszar and Dana Hoag. 1994. *Assessing the Economic Returns from the CRP in New Mexico as a Basis for Future Policy*, Annual meeting of the Soil and Water Conservation Society, Norfolk, Virginia.
217. Hoag, D., A. Hornsby, and D. Nofziger. 1994. "PEET: Pesticide, Economic and Environmental Tradeoffs." 5th International Conference on Computers in Agriculture, Orlando, Florida, February.
218. Jacobson, Elain M., Dana L. Hoag, and Leon E. Danielson. 1993. The Theory and Practice of Pollution Credit Trading in Water Quality Management. Presented at the SRIEG-10 Annual Meeting, Raleigh, N.C., October 20-22, 1993.
219. Roka, F. and D. Hoag. 1993. "Developing a Manure Value Function." Annual meeting of the Southern Agricultural Economics Association, Nashville.
220. Hoag, D. 1993. Balancing Agriculture and the Environment: The Case of Pesticides in Groundwater. Seminar, Dept. of Agricultural and Resource Economics, Colorado State University, September.
221. Roka, F. and D. Hoag. 1993. "Livestock and Poultry Waste Management in the Clean Water Debates--Is the Issue Learning More or Applying What is Known?" Presenter in organized symposium, annual meeting of the American Agricultural Economics Association, Orlando, Florida.

222. Hoag, D. and R. Castedo. 1993. "Contract Growing to Finance Extension in Bolivia." In Soils and Society: Responsible Management, Soil Management CRSP Global Planning Workshop, Raleigh, North Carolina.
223. Hoag, D. 1993. "Conservation Tillage Plans for Farm Bill Purposes." North Carolina Residue Alliance Meeting, Statesville, North Carolina.
224. Hoag, D. 1993. "Conservation Tillage Plans for Farm Bill Purposes." North Carolina Residue Alliance Meeting, Statesville, North Carolina.
225. Jennings, G., S. Coffey, M. Rice, and D. Hoag. 1992. "GIS Identification of Critical Areas in the Herrings Marsh Run Demonstration Watershed." Paper presented at the annual meeting of the American Society of Agricultural Engineers, Charlotte, North Carolina.
226. Hoag, D. 1992. "Concepts and Issues in Constructing Environmental Indices: Pesticides, Nutrients, and Soil Pollutants from Agriculture." Seminar at the U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, North Carolina.
227. Hoag, D. 1991. "Sustainable Agriculture Ideology: Economic and Environmental Tradeoffs." Dept. of Agricultural Economics Workshop.
228. Hoag, D., B. Babcock, and W. Foster. 1991. "Field-Level Measurement of Land Productivity and Program Slippage." Paper presented at the annual meeting of the American Agricultural Economics Association, Manhattan, Kansas.
229. Babcock, B., W. Foster and D. Hoag. 1991. "A Field-Level Analysis of Land Diversion Decisions." Paper presented at the annual meeting of the Western Agricultural Economics Association, Portland, Oregon.
230. Babcock, B., W. Foster and D. Hoag. 1991. "A Farm- and Field-Level Analysis of Commodity Program Participation and Land Diversion. Agricultural Economics Workshop, Dept. of Agricultural and Resource Economics, North Carolina State University, Raleigh.
231. Hoag, D. 1991. "What's in the 1990 Farm Bill." Presented three times to the Soil and Water Conservation District Supervisors, Western Region, Lake Junaluska, North Carolina.
232. Hoag, D. 1991. "Issues In Providing Water Quality Education in the Extension Service." Workshop given at the USDA Extension Service, Washington, D.C.
233. Hoag, D. 1991. "Sustainable Agriculture: Implications for Extension Farm Management in the South." Invited speaker, Organized Symposium, Annual Meeting of the Southern Agricultural Economics Association, Fort Worth, Texas.
234. Hoag, D., M. Doherty and F. Roka. 1991. "Measuring the Farm Costs and Environmental Tradeoffs of LISA." Selected Paper, Annual Meeting of the Southern Agricultural Economics Association, Fort Worth, Texas.
235. Hoag, D. 1991. "Linking Economics to Groundwater Contamination from Farm Pesticide Applications." Seminar, National Water Quality Group, Southern Regional Technical Center, Soil Conservation Service, Fort Worth, Texas.
236. Hoag, D. and A. Manale. 1990. "Comparing Risks From Corn Rootworm Insecticides in Ground Water, Surface Water and Air." Presented at the American Water Resources Association's Symposium on Transferring Models to Users, "Decision-Making: the

- Precursor to - and Ultimate Outcome From- Modeling" session, Denver, Colorado.
237. Hoag, D. 1990. "Budgeting Sustainable Agriculture Crops for the SMART System." Presented at the SMART Training Session for the East, Orlando, Florida.
 238. Hoag, D. 1990. "Least-cost Mitigation of Groundwater Contamination from Soybean Herbicides," Crop Science Seminar, North Carolina State University.
 239. Hoag, D. 1990. "Least-cost Mitigation of Groundwater Contamination from Soybean Herbicides," Joint Soil Science/Economics Seminar, University of Florida.
 240. Hoag, D. 1990. "Least-cost Mitigation of Groundwater Contamination from Soybean Herbicides," Economics Seminar, North Carolina State University.
 241. Hoag, D. 1990. "Comparing Economic and Groundwater Risk Trade-offs: The Case of Herbicides in Soybeans." Seminar presented at the Environmental Protection Agency, Washington, D.C.
 242. Hoag, D. 1990. "A Cost-Environmental Hazard Frontier for Soybean Herbicides." Presented at the annual Meeting of the Resource Policy Consortium, Washington, D.C.
 243. Hoag, D. 1990. Environmental Issues and the 1990 Farm Bill. N.C. Society of Farm Managers and Rural Appraisers annual meeting.
 244. Hoag, D. 1990. How to make the Most Out of Extension Communications in Washington, D.C., Agricultural Communication Specialists' annual retreat, Durham, N.C.
 245. Owen, M., T. Taylor, and D. Hoag. 1990. "ExCEL: Extension Computer Education Laboratory." Third International Conference on Computers in Agricultural Extension Programs, Lake Buena Vista, FL.
 246. Hoag, D. and K. Jack. 1990. "Adoption of Low-input Systems Under Conservation Compliance." Annual meeting of the Southern Agricultural Economics Association, Little Rock.
 247. Holloway, H. and D. Hoag. 1990. "The Influence of Farm Characteristics on Conservation Compliance: A North Carolina Example. Given at the Agricultural and Environment Interest Group Seminar, Environmental Protection Agency, Washington, D.C.
 248. Holloway, H. and D. Hoag. 1990. "Farm Production Decisions Under Conservation Compliance." Annual meeting of the Southern Agricultural Economics Association, Little Rock.
 249. Hoag, D. 1990. "Reducing Agrichemical Pollution in a Competitive Market System," invited paper, Annual meeting of the American Association for the Advancement of Science, New Orleans.
 250. Hoag, D. 1989. "The Intertemporal Impact of Soil Erosion on Heterogeneous Soil Profiles." Presented at USDA-SCS in Washington, D.C.
 251. Hoag, D. 1988. "Farm Program Options and Their Consequences." Invited speaker, League of Women Voters, Boone, NC.
 252. Hoag, D. 1988. "Implications of Conservation Legislation on North Carolina Research." Seminar, Department of Soil Science, North Carolina State University, Raleigh, NC.
 253. Holloway, H. and D. Hoag. 1988. "Economic Considerations of Conservation Tillage." Paper presented at the Annual Conference of the Southern Agricultural Economics Association, New Orleans, LA, February.
 254. Hoag, D. 1988. "Local Implementation of the Conservation Provisions of the 1985 Food

- Security Act." Invited paper for discussion in "Who Knows Best? National, State and E.E.C. Strategies to Long-term Land Retirement Programs." Symposium at the Annual Conference of the Southern Agricultural Economics Association, New Orleans, LA, February.
255. Hoag, D. 1988. "Budget Planner: Whole-Farm Budgeting Software Designed to Make People Want to Use It." Paper and program presented at the 2nd International Conference on Computers in Agricultural Extension Programs, Lake Buena Vista, FL, January.
256. Hoag, D. 1986. "Cost of Entering the Reserve." In the Economic Impacts of the New Highly Erodible Lands Legislation. A Panel discussant and organizer, Soil Conservation Society of America meetings, Winston-Salem, NC.
257. Hoag, D. 1986. "The Conservation Reserve Program: Extension Ideas from North Carolina." The Conservation Reserve Program: Ideas from Four Notable Extension Programs, Panel discussant and paper presented, AAEA annual meetings, Reno, NE.
258. Hoag, D. 1986. "The Impact of Soil Erosion on Productivity: A TVA Assessment." Paper Presented at the TVA meetings, Muscle Shoals, AL, May.
259. Hoag, D. 1986. "Economic Implications of Highly Erodible Land Retirement Legislation." Soil Science Seminar.
260. Hoag, D. 1986. "Orchard Pest Management Strategies for Being Cost Effective." Invited Speaker at the 1986 N.C. Apple Growers Association annual state meetings, Asheville, NC, January.
261. Lanier, A. and D. Hoag. 1986. "Cost Effectiveness of Conservation on a North Carolina Farm." Paper presented at Soil Conservation Society of America annual meetings, Winston-Salem, NC, August.
262. Lilley, S., D. Hoag and M. Cook. 1986. "Cooperative Extension Service Programs in Soil and Water Conservation." Paper presented at Soil Conservation Society of America annual meetings, Winston-Salem, NC, August.
263. Renkow, M. and D. Hoag. 1986. "What Really is Soil: Implications for the South." Paper presented at the Southern Agricultural Economics Assoc. meeting, Orlando, FL.
264. Young, D., F. Steiner, D. Hoag and E. Michalson. 1986. "Policy and Institutional Impacts on Adoption of Conservation Practices," Paper presented at the STEEP-Soil Conservation Concepts and Accomplishments Symposium, Spokane, WA, May.
265. Hoag, D. 1986. "Roles of Extension for Information and Education about the Conservation Title of the 1985 Food Security Act." Paper presented at: a) Agri. Stabilization and Cons. Service and Soil Conservation Service In-Service training, Raleigh, NC, b) Resource Conservation and Development Council meeting, Region H, Wadesboro, NC.
266. Hoag, D. 1985. The Conservation Reserve. Economics and Business, Agricultural Economics Workshop, NCSU.
267. Hoag, D., C. Ogg and M. Dicks. 1985. Acreage Reduction Alternatives in Price Support Programs. Panel discussant, Wesley Seitz, moderator, AAEA annual meetings, Ames, Iowa.
268. Hoag, D. and D. Young. 1985. "ASCS Commodity-Conservation Policy Impacts on Risk and Returns in the Palouse." Paper presented at the American Agricultural Economics Assoc. meeting, Iowa, August.

269. Hoag, D. 1984. "Short-Run Economics of Conservation Tillage Practices." Paper presented at the annual STEEP Review, Spokane, WA, January.
270. Hoag, D. and D. Young. 1984. "Will USDA's Conservation Reserve Program Make Erodible Land Retirement Profitable?" Paper presented at the Western Agricultural Economics Assoc. meetings, San Diego, CA, July.
271. Hoag, D. and D. Young. 1984. "Does Conservation Tillage Cut Yields and Profits in the Palouse? Farmer Perceptions Contrasted with Experimental Evidence." Paper presented at the Northwest Economics Conference, Spokane, WA.
272. Hoag, D. and D. Young. 1983. "Do Acreage Diversion Programs Encourage Farming Erodible Land?" Paper presented at the Western Agricultural Economics Assoc. meetings, Laramie, WY, July.
273. Hoag, D. and D. Young. 1982. "Does Conservation Tillage Cut Yields and Profits in the Palouse? Farmer Perceptions Contrasted with Experimental Evidence." Paper presented at the Northwest Economics Conference, Spokane, WA.

COMPUTER SOFTWARE

1. Parsons, J. and D. Hoag. 2009. Big Horn Basins Farms. RightRisk Ag Survivor Scenario. www.AgSurvivor.com.
2. Parsons J. and D. Hoag. 2009. High Plains Ranch. RightRisk Ag Survivor Scenario. www.AgSurvivor.com.
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14. Nofziger, D., D. Hoag, and A. Hornsby. 1995. PEET: Pesticide Economic and Environmental Tradeoffs, Herbicides on Peanuts Version. Cooperative Extension Service, Oklahoma State University, Stillwater.
15. Hoag, D., K. Klonsky and J. DuBruille. (1991) Budget Planner: Version 2.0, North Carolina Agricultural Extension Service and Cooperative Extension, University of California.
16. Estes, E., L. Rogers and D. Hoag. 1988. Crop Planner. Microcomputer Farm Management Series, No. 3-1988. Department of Economics and Business, North Carolina State University, Raleigh.
17. Hoag, D., E. Estes, L. Rogers and V. Cox. 1987. Budget Planner. Microcomputer Farm Management Series, No. 1-1987, Department of Economics and Business, North Carolina State University, Raleigh, August.

Graduate Committees for Dana Hoag (2007 to Present)

	Total	Chair
Ph.D.	17	8
M.S.	28	19

Student Name	Degree	Date	Position
1. Roka, F.	Ph.D.	1990	Chair
2. Cox, V.	MS	1987	Chair
3. Smutko, S.	Ph.D.	1986	Member
4. Renko, M.	Ph.D.	1988	Member
5. Holloway, H.	MS	1992	Chair
6. Tomberlin, D.	MS	1993	Chair
7. Jack, K.	MS	1994	Chair
8. Castedo, R.	MS	1994	Chair
9. Hughes, J.	MS	1994	Member
10. Vickner, S.	MS	1995	Chair
11. White, D.	Ph.D.	1996	Member
12. Hornbrook, E.	MS	1997	Chair
13. Page, S.	MS	1999	Chair
14. Garner, E.	Ph.D.	ABD	Chair
15. Vickner, S.	Ph.D.	2000	Member
16. Chartris, P.	Ph.D.	dropped	Outside
17. Jenson, P.	Ph.D.	1999	Outside
18. Walker, J.	MS	2000	Chair
19. Marshal, A.	Ph.D.	2001	Chair
20. Caughlan, L.	MS	2001	Chair
21. Popp, J.	Ph.D.	1996	Chair
22. Parsons, J.	Ph.D.	2002	Chair
23. Engler-Palma, A.	Ph.D.	2003	Chair
24. Allen, Bryon	Ph.D.	2004	Member
25. Castillo, Jacob	MS	1998	Member
26. Fathelrahman, E.	Ph.D.	2002	Chair

27. Miller, T.	Ph.D.	2002	Member
28. Conrade	Ph.D.	2002	Chair
29. Lambert, H.	MS	2003	Chair
30. Houk, E.	Ph.D.	2003	Member
31. Elder, L.	MS	2004	Member
32. Wiggons, T.	MS	Dropped	Member
33. Broomfield, C.	MA	2006	Member
34. Deering, J.	MS	2006	Chair
35. Donovan, J.	MS	2006	Chair
36. Miller, M.	Ph.D.	2007	Member
37. Garner, E.	Ph.D.	ABD	Chair.
38. Matuku, Kavoi	Ph.D.	2007	Chair
39. Million, A	MS	2015	Chair
40. Sprague, A.	MS	Pending	Chair
41. Olinger	MS	2008	Chair
42. Gambrel, J.	MS (philosophy)	2008	Outside
43. Vanderver, M.	MA	2007	Chair
44. Gwanmesia	Ph.D.	Dropped	Co-chair
45. Cambell, C.	MA	2008	Chair
46. Sartorius, L.	MA	2008	Chair
47. Nelson, E.	MA	2008	Chair
48. Goldbach, R.	MS	2008	Chair
49. Wagner, L.	MA	2009	Chair
50. Nelson, E	MS	2009	Chair
51. Gratton, R.	MS	dropped	Member
52. Polan, A	MA	2010	Chair
53. McColluck	MS	2011	Chair
54. Gascoigne, B	MS	2011	Chair
55. Evans, S	Ph.D.	2012	Chair
56. Hou, Lingling	Ph.D.	2012	Chair
57. Hill, Heather	MS	2010	Outside
58. Smith Shanna	MA	2009	Chair
59. Sedlacik, J	MA	2010	Chair
60. Snyder, J.	MA	2009	Chair
61. Spencer, A	MS	2009	Outside
62. Yen, Haw	Ph.D	2012	Outside
63. Toro, A	MS	2009	Member
64. Zuel, S.	MS	2009	Member
65. Ahmadi, M.	Ph.D	2012	Outside
66. Call, B.	MA	2010	Chair
67. Moghaddam, B.	Ph.D.	Active	Outside
68. Brandass, A.	MS	2011	CoChair
69. Brandass, A	Ph.D	Dropped	Chair
70. Irrer, A.	MS	Dropped	CoChair
71. Hamdan, Osman	Ph.D.	Active	Chair
72. Shah, Syed	Ph.D.	2013	Chair
73. Schaefer	MA	2011	Chair
74. Prachini, Nicholas	MS	2012	Member
75. Okumah, Robert	MA	2012	Chair
76. Porth, Emily	Ph.D.	2011	Outside
77. Suksawat Jakrapun	Ph.D.	2015	Member
78. Alnaser, Ibrahim	MS	2012	Member

79. Walker, R.	MA	2005	Chair
80. Alhashim Jawad	Ph.D.	Dropped	Member
81. Adams, G.	MS	active	Outside
82. Motellebi, Marzeih	Ph.D.	2015	Chair
83. Sharp, Misti	Ph.D.	2017	Chair
84. Flynn, Patrick	MS	2016	Chair
85. Daskam, Mike	Ph.D.	Active	Member
86. Tasdighi, A.	Ph.D.	2017	Outside, T
87. Azizimoghaddam, Barmak	Ph.D.	Active	Outside
88. Neu-Overlin, Justin	Ph.D.	Active	Outside
89. Vine Mutyasira	Ph.D.	2017	Chair
90. Elbahlul, Bdawi	Ph.D.	Active	Chair
91. Quam, Brad	MA	Dropped	Member
92. Heesemann, Brent	MS	2016	Outside
93. Romero, E.	MS	2016	Outside
94. Hinton, Jessica	MA	Dropped	Member
95. Huda, Halla	MA	2014	Member
96. Stroheim, Erich	Ph.D.	Active	Outside
97. Tadesse, Tewadros	Ph.D.	2016	Outside
98. Lee, Hwan Lee	Ph.D.	2017	Member
99. Fields, Chris	Ph.D.	Active	Outside
100.Orlando, Tony	M.S.	2017	Chair
101.Adams, Justine	MA	Active	Member
102.Bowden, Laura	MA	Active	Member
103.Kravig, Danielle	MA	Active	Member
104.McCormish, Nancie	MA	Active	Member
105.Ribbons, Joanna	MA	Active	Member
106.Hodgson, B.	Ph.D.	Active	Outside
107.Berhe, M.	Ph.D.	2017	Chair
108.Shultz, Chris	MS	2017	Outside

Courses Taught

1. Farm and Ranch Management
2. Production Economics (Masters level)
3. Risk Management (Section of Ph.D. Class)
4. Agricultural Policy (Capstone Undergraduate Class)
5. Policy (Masters/Ph.D. Class)
6. Integrated Resource Management – Policy (MS class)
7. Economic Methods and Analysis (Masters/Ph.D. Class)
8. Agricultural Policy (On-Line)
9. Integrated Resource Management – Policy
10. Environmental Economics