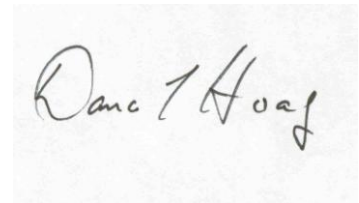

VITA

PERSONAL

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Colorado State University
Ft Collins, CO 80523-1172



EDUCATION

Institution and Degree

Major

Washington State University
Ph.D. 1984

Agricultural Economics

Dissertation: An Evaluation of USDA Commodity Program
Incentives for Erodible Land Retirement

Colorado State University
M.S. 1981

Agricultural Economics

Thesis: Agland Cooperative and Petroleum Use in Weld
County, Colorado

Colorado State University
B.S. 1980

Farm and Ranch Management
Cow-Calf/Beef Management

PROFESSIONAL ACTIVITIES, ACCOMPLISHMENTS and RECOGNITIONS

1. Editor: J. of Risk Analysis and Crisis Response, 2010-present
2. Chair blue ribbon committee for Council on Food, Agriculture and Resource Economics, 2010-present
3. Western Distinguished Scholar, Western Agricultural Economics Association, 2009.
4. 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)

5. Board of Directors, Council on Food, Agriculture and Resource Economics 2007-2010
6. Selected by students as “Favorite Faculty or Staff Member”, 2009..
7. Outstanding Faculty Member, CSU Greek Community, 2006
8. 2006 Distinguished Academic Advisor Award, Honors Program, Colorado State University
9. Distinguished Cooperative Extension Award, Colorado State University Alumni Association 2006
10. Western Regional Team Award by Epsilon Sigma Phi (Zeta Chapter). With Tranel, Sharp, Kaan And Parsons, 2005
11. President, Western Association of Agricultural Economists, 2005/2006
12. Undergraduate teaching award, over ten years, Western Association of Agricultural Economists, 2004
13. Cooperative Extension Team Award for RightRisk, Colorado State University, 2004
14. State Team Award to Colorado for “The RightRisk Team,” Epsilon Sigma Phi Cooperative Extension Professionals’ Organization, 2004
15. Board of Governors of the Colorado State University System, Excellence in Undergraduate Teaching Award, 2003
16. Gamma Sigma Delta Faculty Award of Merit, 2003.
17. Vice President of the Western Association of Agricultural Economists, 2003/2004
18. Meritorious Faculty Award from the Colorado Farm Bureau, 2002
19. Editorial Board (and originator) Ecological Indicators: Integrating Monitoring, Assessment and Management (Elsevier journal) (Current)
20. Editor and Founder: Western Economic Forum (Current)
21. Elected to the board of Directors, Western Agricultural Economics Association, 2000-2002.
22. Elected as At large representative from the Ag College to the Faculty Council, 2001
23. Served on the Outstanding Extension Awards Committee, Western Agricultural Economics Association, 2001.
24. Agribusiness Association Presidents Award, 1999
25. “Apple Polishing dinner” for agricultural fraternity
26. For the Agribusiness Association (Club Advisor): Innovative Idea for a Club Award, American Association of Agricultural Economics, 1999
27. Teaching Award of Merit, National Association of Colleges and Teachers of Agriculture, 1998
28. Charles N. Shepardson Meritorious Teaching Award, CSU, 1998
29. Nominated for the NACTA/Charles N. Shepardson Meritorious Teaching Award, 1997
30. Selected to review research program in agricultural economics and policy at the University of Natal, South Africa, 1997
31. Alpha Gamma Rho Fraternity Apple Polishing Dinner to honor our favorite professors, 1997
32. 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.
33. Board of Directors, Resource Policy Consortium, 1992/93.
 34. Chairman, Resource Policy Consortium, 1991/92.
 35. Board of Directors of the North Carolina Association of Cooperative Extension specialists, 1987/1992.
 36. Outstanding Extension effort, North Carolina Agricultural Extension Service, Conservation Reserve Program, 1986.
 37. Extension Educational Aids Blue Ribbon Awards, American Society of Agricultural Engineers, 1985.

EXPERIENCE AND PROFESSIONAL POSITIONS

August 1993 to present: Associate Professor, 50 percent Research, 50 percent 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.

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-present
- 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

1. 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).
2. Hoag, D. "Profitability Models for IPM Programs." North Carolina State Extension IPM Grant (\$6,125, 1985 and \$6,000, 1986).
3. Hoag, D. and W. Gilliam. "Soil Productivity Studies in the TVA Region." Tennessee Valley Authority Grant, \$50,000, 1985/86.
4. 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.
5. 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.
6. 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.
7. 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.
8. Hoag, D. and D. Neuman. "Utilizing Low-Input Sustainable Agriculture Farm Decision Software in North Carolina," Extension USDA, \$33,550, 1990/91.
9. 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.
10. 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.
11. 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.

12. 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.
13. 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.
14. 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.
15. 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.
16. Subtotal = 929,000
17. Hoag, D. and J. Fulton. Evaluation of Colorado Agriculture's Impact on the Economy, \$10,000.
18. Hoag, D. Internship for CRP evaluation in Washington, D.C. (J. Hughes), \$3,000+
19. Hoag, D. and M. Frasier. GPFARM Economic Modeling-USDA-Agricultural Resource Service, \$27,500/year, 1994/95.
20. Hoag, D. Develop and Implement training program for two environmental agency leaders from Albania, G. Deliu and D. Shkupi (Contract), Fall, 1994.
21. Hoag, D. And M. Frasier. GPFARM Economic Modeling-USDA-Agricultural Resource Service, \$26,000 (1995/96).
22. Hoag, D. A survey of farmer attitude and use of microcomputers- Agricultural Resource Service, \$13,200 (1995).
23. Hoag, D. Summer funding for graduate research assistantship (E. Hornbrook), National Renewable Energy Lab, Golden, Colorado, \$4000 1995.
24. 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)
25. Hoag, D., and M. Frasier. Economic Development in GPFARM. USDA-Agricultural Research Service. \$18,262 (96/97)
26. 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
27. Hoag, D. NRCS funding for J. Hughes soil sustainability project, \$4,000, 1997
28. 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
29. Hoag, D. Research and Extension Productivity in the College of Agriculture. Grant from Colorado Agricultural Experiment Station, Oct 1997-June 1998 (\$17,500)
30. 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)
31. 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.
32. 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.
 33. 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).
 34. Hoag, D. Economic Development in GPFARM. USDA-Agricultural Research Service. \$20,086 (97/98)
 35. 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.
 36. 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.
 37. 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
 38. Hoag, Dana. Develop new economic budgeting & risk component. Grant from the USDA-Agricultural Research Service, Great Plains Research Unit, approximately \$22,000, 2000
 39. Hoag, Dana. Develop new economic budgeting & risk component. Grant from the USDA-Agricultural Research Service, Great Plains Research Unit, (continuation \$7,500), 2001
 40. Hoag, Dana and John Hewlett. A Risk Education Simulation/game. CSREES – RMECG. Funded at \$99,073 for two years.
 41. USDA Proposal for National Needs Fellowship, Natural Resources and Environment, with Loftus, funded at \$207,000 from 7/2002-8/2005.
 42. Hoag, Dana. Develop new economic budgeting & risk component. Grant from the USDA-Agricultural Research Service, Great Plains Research Unit, (continuation \$5,000), 2002
 43. With John Hewlett: Western Center for Livestock Management. Funded by Western Center for Risk Management Education, Pullman, WA, \$45,000 (June, 2002-May 2003)
 44. 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.
 45. With Steve Koontz. Animal Insurance Products. Cooperative agreement with USDA-Animal Plant Health Inspection Service, May, 2002 (\$39,312)
 46. Education, Training and Outreach on Risk Education, Funded by the Western regional Sustainable Agriculture Research and Education program, May 2003-2005. \$99,600
 47. Drought Management Risk Simulation for Research and Education. Funded by CSREES-Agricultural Risk Management Education CGP, \$80,000

48. With John Hewlett: Western Center for Livestock Management. Funded by Western Center for Risk Management Education, Pullman, WA, \$19,000 (June, 2003-May 2004)
49. A Commodity Partnership Risk Management Education Project in Colorado, Funded in the Commodity Partnerships program, Risk Management Agency, Sept 2003-Oct 2004, \$113,000
50. Book Work Plan. USDA-Animal Plant Health Inspection Service. To write book based on 2002 livestock insurance program. 39,500, 2003-2004
51. 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) ()
52. Investigator with Kaan, Using "Surviving in Agriculture" to Teach Equity Management to Ag Producers in Western States, \$39,997
53. The Role of Indices in Natural Resource Policy Analysis, US Geological Survey, Biological Research Division, \$26,000, 2004-2005
54. IFARM DSS Risk Analysis Module Development, United States Department of Agriculture, Agricultural Research Service, \$5,000, 2004-2008
55. A Risk Management Education Partnership with Colorado Sheep Producers.
56. Commodity Partnership Grant, USDA Risk Management Agency. \$97,965_
57. With Hewlett in Wyoming. USDA, FCIC, Operating through the RMA – Commodity Partnership Program., Risk Management Education for Wyoming Livestock Producers , \$149,947
58. With Hewlett in Wyoming. USDA, FCIC, Operating through the RMA – Commodity Partnership Program., Risk Management Education for Crop Producers in Wyoming. \$292,903
59. Risk Management Training with RightRisk. Submitted to the Western Center for Risk Management Education., Washington State University, (in review) \$38,574
60. 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)
61. Risk Management for Colorado Livestock Producers. US Department of Agriculture, Risk Management Agency., RME Commodity Partnerships. September 2005-August 2006. \$149,977 (all CSU)
62. 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)
63. American Sheep Industry RightRisk Education Project. US Department of Agriculture, Risk Management Agency., RME Small Sessions Program. September 2005-August 2006. \$10,000
64. Risk Management for Nebraska Livestock Producers. US Department of Agriculture, Risk Management Agency., RME Small Sessions Program. September 2005-August 2006. \$10,000
65. 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
66. Hoag, D. with Seidel and others. Integrating in Vitro Embryo Technologies into the Dairy Industry. USDA-NRI Animal Reproduction Program. \$ 449,907 (FUNDED)
 67. Hoag, D. and J. Parsons. Risk management education for Colorado producers using RightRisk, USDA-Risk Management Agency, (Oct 2006-Sept 2007), \$150,000
 68. Hoag, D. and C. Keske. 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
 69. Hoag and Keske, with Swinton, "Ecosystem services from working lands: Cross-site LTER research. \$8,150
 70. (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 (FUNDED)
 71. Hoag and Parsons, 2007. Insurance Education for Sheep Producers, Western Center for Risk Management Education, \$40,000
 72. Deanna Osmund (lead), Dana Hoag and others. 2007. Synthesizing and Extending Lessons Learned from the 13 CREES-CEAP Watersheds \$600,000
 73. RightRisk Education for Pasture, Rangeland and Forage Pilot Insurance in Colorado, 2007. USDA Risk Management Agency. 99,500
 74. 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.
 75. Parsons, J. and D. Hoag. 2008. Variety choices and risk management considerations for grain producers. Western Center for Risk Management Education, \$29,800
 76. US Geological Society. 2008. Ecosystem and Economic Returns in Prairie Potholes. Support for one graduate student for the year. Approximately \$20,000
 77. Hoag. 2009. Risk Education Outreach in the Navaho Nation. Cooperator on RMA-Outreach grant (funded)
 78. Hoag, (Arabi lead) and others. 2009. A Multi Criteria Decision Tool For the Assessment and Planning of Watershed Conservation Practices, \$579,350
 79. Adapting Livestock Systems to Climate Change; Collaborative Research Support Program. Co-PI and Co-project director if funded. \$15 Million. FUNDED
 80. Adapting Livestock Systems to Climate Change in Mali. USAID mission associate award, 8/2010 to 7/2013, \$5,250,000.
 81. US Fish and Wildlife Service. (2011-2012). The Economic Contribution of Restoration Lands in Rural Communities, \$18,094.
 82.) 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
 83. Hoag, Dana, Mazdak Arabi. 2011-2014. Analysis of Conservation Practice Effectiveness and Producer Adoption Behavior in Lake Jordan Watershed, NC, \$146,332

PUBLICATIONS**REFEREED PUBLICATIONS, AND BOOK CHAPTERS****Journals and Manuscripts**

1. Gascoigne, W. Dana Hoag, Lynne Koontz, Brian A. Tangenc, Robert A. Gleasonc, Terry L. Shaffer. 2011. Valuing Ecosystem And Economic Services Across Land-Use Scenarios In The Prairie Pothole Region Of The Dakotas. *Ecological Economics*, Vol. 70: pg 1715-1725
2. Hoag, Dana. A Strategic Risk Management Program for Agriculture. 2011. *China Agricultural Economic Review*, Vol 3 (4)505-517.
3. Hou, Lingling, Dana Hoag and Mu. 2011. Adverse Selection of Subsidized Crop Insurance in China. 2011. *China Agricultural Economic Review*. Vol 3 (4): 462-475.
4. Hoag, D., R. Boone, and C. Keske. 2011. The Cost for Agriculture to Coexist With Wildlife In Colorado. *Human Dimensions of Wildlife*, 16:5, 318-329
5. Hoag, D., C. Keske and B. Goldbach. 2011. Risk Individuality In Crisis Planning: The case of Gender In American Agriculture. *Journal of Risk Analysis and Crisis Response*, Vol. 1, No. 1: 21-28
6. Fathelrahman, Eihab, James C. Ascough II, Dana L. Hoag, Robert W. Malone, Philip Heilman, Lori J. Wiles, and Ramesh S. Kanwar. 2011. Continuum of Risk Analysis Methods to Assess Tillage System Sustainability at the Experimental Plot Level. *Sustainability*, 3(7), 1035-1063; doi:10.3390/su3071035
7. Fathelrahman, E.M., Ascough II, J.C., Hoag, D.L., Malone, R.W., Heilman, P., Wiles, L.J., and Kanwar, R.S. 2011. Economic and stochastic efficiency comparison of experimental tillage systems in corn and soybean under risk. *Journal of Experimental Agriculture* Vol. 47 (1): p 111-136
8. Cross, J. E., C.M.H. Keske, M.G. Lacy, C.T. Bastian, D.M. McLeod, and D.L.K. Hoag. 2011. Adoption of Conservation Easements among Agricultural Landowners in Colorado and Wyoming: The Role of Economic Dependence and Sense of Place Landscape and Urban Planning, Vol 101: 75-83
9. Smith Shanna, Dana Hoag, and Kraig Peel. 2011. Improving Extension by Learning from Outstanding County Agents . *J. of Extension*, Vol 49 (4), Feature Articles, 4FEA2
10. Keske, Catherine, Dana Hoag, Michael Lacy, Chris Bastian, and Don McLeod. 2011. Using Mixed Methods Research in Environmental Economics: The Case of Conservation Easements. *International Journal of Mixed Methods in Applied Business and Policy Research*. Vol. 1, No. 1
11. Miller, A., C.T. Bastian, D.M. McLeod, C.M. Keske, and D.L. Hoag. 2011. Factors Impacting Agricultural Landowners' Willingness to Enter into Conservation Easements: A Case Study. *Society and Natural Resources: An International Journal*. 24,1(2011): 65-74.
12. Bond, C., D. Hoag and G. Kipperberg. 2011. Agricultural Producers and the Environment: A Stated Preference Analysis of Colorado Corn Producers. 2011. *Canadian J. of Agricultural Economics*, 00 (2011): 1-18

13. Bond, C., D. Hoag and J. Freeborne. 2011. Are Agricultural PACs Monolithic? An Empirical Investigation of Political Contributions from Agricultural Subsectors. " American Journal of Economics and Sociology, Vol. 70, Issue 1, 2011: p. 210-237
14. Keske, C.M.H., D. Hoag, and C.T. Bastian, 2011, The effect of landowner amenity rents in conservation easement policies. Environmental Economics Journal 2(3), pp. 120-127.
15. Mutuku, Kavoi, Dana Hoag and James Pritchett. 2010. Influence of Institutional and Socio-Economic Factors on the Supply Response of Smallholder Dairy Farms in the Marginal Zones of Kenya" Journal of International Development, 22: p. 1-19
16. Hoag, D and J Parsons. Risk Navigator SRM: An Applied Risk Management Tool. J. of Probability and Statistics. 2010. Vol. 2010, (2010), Article ID 214358, 17 pages.
17. Mutuku, Kavoi, Dana Hoag and James Pritchett. 2010 Economic performance of exotic dairy cattle under smallholder conditions in the marginal zones of Kenya using three analytical approaches. AGREKON, Vol 49 (1): p. 56-79.
18. Mutuku, Kavoi, Dana Hoag and James Pritchett. 2010. Measurement of economic efficiency for smallholder exotic dairy cattle in the marginal zones of Kenya. J. of Development and Agricultural Economics, Vol. 2 (4), 2010 : p. 122-137
19. Ascough II, J.C., Andales, A.A., Sherrod, L.A., McMaster, G.S., Hansen, N.C., DeJonge, K.C., Fathelrahman, E.M., Ahuja, L.R., Peterson, G.A., and Hoag, D.L. 2010. Simulating landscape catena effects in no-till dryland agroecosystems using GPFARM. J. Agric. Sys. 103(8): 569-584.
20. Hoag, D. and Wei. 2009. Water and Soil Conservation Incentives in The United States: Lesson for Chinese Agriculture. South China Agriculture, Vol. 3
Keske, C, D. Hoag and C. Bastian. 2009. Can the Conservation Easements Market Evolve from Emerging to Efficient? Western Economic Forum, 8(1): 7-17.
21. Mutuku, Kavoi, Dana Hoag and James Pritchett. 2009. Production structure and derived demand for factor inputs in smallholder dairying in Kenya. African Journal of Agricultural and Resource Economics, Vol 3 (2): 122-143
22. Koontz, Stephen, Dana Hoag, John Brethour and Jodine Walker. 2008. Production inefficiency in Fed Cattle Marketing and the Value of Sorting Pens into Alternative Marketing Crops using Ultrasound Technology. J. of Agricultural and Applied Economics Vol 40, no 2:
23. Lynne M. Koontz and Dana L. Hoag. Incorporating Institutional Power Into The Disparate Stakeholder Management Approach: A Case Study Of Wildlife Management In The Southern Greater Yellowstone Area. International Journal of Organization Theory and Behavior. Vol. II (2008): p. 103-124
24. Engler, A and D. Hoag. Accounting for Risk and Stability in Technology Adoption. Canadian J. of Agricultural Economics, Vol. 55 (2007): p. 365-380
25. Hoag, D. and Wei Xiangxin. Soil Conservation in the United States: lessons for Chinese Agriculture. Journal of Guangxi Agriculture. Vol. 22 (2007):p. 89-93 (ISSN 1003-4374)
26. Vandever Mark and Dana Hoag. Stakeholder opinions regarding management of Conservation Reserve Program lands to address environmental and wildlife issues. Human Dimensions of Wildlife. Vol. 11(2006): p 147-149.

27. Weiler, S., D. Hoag and C. Fan. 2006. Prospecting for Economic Returns to Research: Adding Informational Value at the Market Fringe. *Journal of Regional Science*, Vol. 46: p. 289-311
28. Keske, C. and D. Hoag. 2006. A market perspective: A research group of economists asks, what are land trusts trying to preserve? *Exchange: The National Journal of Land Conservation*, Vol. 25 (4): p. 24-27
29. Hoag, Dana L. Chris Bastian, Catherine Keske-Handley, Don McLeod and Andrew Marshall. Evolving Conservation Easement Markets in the West. *Western Economic Forum*, Fall 2005.
30. Hoag, Dana. Economic principles for saving cooperative extension. *J. Agricultural and Resource Economics*, Vol 30 (2005): p. 397-410.
31. Hoag, D., M. Lacy and J. Davis. Pressures and Preferences Affecting Willingness to Apply Beef Manure on Crops in the Colorado High Plains. *J. Agricultural and Resource Economics* 29(2004): 461-480.
32. Conradie B.I. and D.L. Hoag A Review of Mathematical Programming Models of Irrigation Water Val Risk and Income Stability: Distinguishing Two Factors Behind Long-Run Technology Adoption Decisions. *Water South Africa* 30(2004): 287-292
33. Hoag, Dana. Book Review. Power, Thomas Michael, and Richard N. Barrett. *Post-Cowboy Economics: Pay And Prosperity In The New American West*. Washington: Island Press, 2001, 185 pp., \$ 25. *American Journal of Agricultural Economics*, Vol. 85 (2003).
34. Hoag, Dana, James Ascough, and Alejandra Engler. Impact matrix and decision rules to enhance index dimensionality, flexibility and representation. *Ecological Indicators*, Vol. 2 (2002): p. 161-1688.
35. Lewis, Tim and Dana Hoag. Editorial. *Ecological Indicators*. Vol. 2 (November, 2002): p. 1-2.
36. Ascough II, James C., Dana L. Hoag, Gregory S. McMaster, and W. Marshall Frasier. Computer Use And Satisfaction By Great Plains Producers: Ordered Logit Model Analysis. *Agronomy Journal*, Vol. 94 (2002): p. 1263-1269.
37. Popp, Jennie, Dana Hoag, and James Ascough II, Targeting Soil Conservation Policies for Sustainability: New Empirical Evidence. *J. of Soil and Water Conservation*, Vol. 57 (2002): p. 66-74
38. Ribaud, Marc, Dana Hoag, Mark Smith and Ralph Heimlich. Environmental Indices and the Politics of The Conservation Reserve Program. *Ecological Indicators*, Vol. 1 (2001): p. 11-20.
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Books and Book Chapters

1. Hoag, D. 2009. Applied Risk Management in Agriculture. CRC Press-Taylor & Francis Group, Boca Rotan, Florida. pp 403. (ISBN: 978-1-4398-0973-0)
- Chapters in Applied Risk Management in Agriculture, 2009:
2. *Chapter 1: Introduction (Dana L Hoag)*
 3. *Chapter 2: Managing Risks and Risky Decisions (Dana Hoag)*
 4. *Chapter 4 The Strategic Risk Management Process (Dana Hoag and John Hewlett)*
 5. *Chapter 6 Step 2: Determine Risk Preferences (Dana Hoag and Catherine Keske)*
 6. *Chapter 8 Step 4: Prioritize Risks (Dana Hoag)*
 7. *Chapter 9 Step 5: Identify Risk Management Alternatives (Jay Parsons and Dana Hoag)*
 8. *Chapter 10 Step 6: Determining the Likelihood of Outcomes (Catherine Keske, Dana Hoag and Eihab Fathelrahman)*
 9. *Chapter 11 Step 7: Choose the "Best" Risk Management Alternative (Dana Hoag, Eihab Fathelrahman, and Jim Ascough)*
 10. *Chapter 16 Human and Institutional Risk (John Hewlett and Dana Hoag)*
 11. *Chapter 17 Ag Survivor (Dana Hoag and Jay Parsons)*
 12. *Chapter 18 Building Customized Risk Management Plans (Dana Hoag and Duane Griffith)*
13. 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)
 14. (Book) Risk Navigator SRM: A ten-step strategic risk management program for agricultural practitioners. Self published, June, 2008, 498 pages.
 15. 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
 16. 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.
 17. Keske, C. and D. Hoag. (2006) Urban Sprawl. In Issues: Understanding Controversy and Society. ABC-CLIO Digital Collections.
 18. Keske, C. and D. Hoag. (2006) Water Quality and Availability. In Issues: Understanding Controversy and Society. ABC-CLIO Digital Collections.
 19. D. Hoag and C. Keske. (2006) Food Safety. In Issues: Understanding Controversy and Society. ABC-CLIO Digital Collections.
 20. (Book) Koontz, SR, DL Hoag, DD Thilmann, J. Grannis and J. Green. 2005. The economics of livestock disease insurance: concepts, issues and international case studies. CABI publishing Oxfordshire, UK (ISBN: 0851990770)
 21. Hoag, Dana, Catherine Keske-Handley, James Ascough, II and Lynne Koontz. 2005. Decision Making with Environmental Indices. Nova Science Publishers
 22. Koontz, Lynne, and Dana Hoag. 2005. Disparate Stakeholder Management of Wildlife Issues in the Southern Greater Yellowstone Area. Nova Science Publishers

23. 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).
24. 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
25. Research Laboratory, May 24-29, 1999, Purdue University, West Lafayette, Indiana, USA. International Soil Conservation Organization and the USDA, Agricultural Research Service. (December 2001).
26. Hoag, Dana. *Agricultural Crisis in America*. Contemporary World Issues: ABC-CLIO Publishing, Santa Barbara, California, December, 1999: 275 pages (isbn: 0-87436-737-9).
27. 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)
28. Hoag, D., J. Hughes, and P. Huszar. “Is U.S. soil conservation policy sustainable development?”
29. 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)
30. 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)
31. 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
32. 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)
33. 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)
34. 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)
35. 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).

36. 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. 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, D. 2011. An introduction to the Adapting Livestock Systems to Climate Change CRSP. AES Research Center Conference, January 13. Fort Collins, Colorado
2. Hoag, D. The agricultural cost to support wildlife in Colorado. Presented at the Institute for Livestock and Environment Spring Lecture Series, April, 2010
3. 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
4. Hoag, D. Risk Navigator: A strategic Risk Management Program, Chinese Agricultural University, Beijing, China June 2010
5. Hoag, D. with Shawn Archibeque and Michael Carolin. 2009. Panel Response to Lestor Brown, Monfort Professor in Residence, Colorado State University.

6. 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
7. _____. 2009. Cost-Effectiveness of BMPs or Initial Progress of the CEAP
8. Synthesis. Heartland Water Quality Conference, Kansas City, KS.
9. _____. 2009. Initial Progress of the CEAP Synthesis: Year One. USDA CEAP Steering Committee, Washington, DC.
10. _____. 2009. Update of the CEAP Synthesis. USDA CEAP Steering Committee, October, 2009. Washington, DC.
11. The Economics of Risk. Presented at the University of Denver Law School, 2009
12. Hoag, D. Risk navigator SRM: A ten-step program for risk management in agriculture. DARE-NFS seminar series, February, 2009
13. Cost of Wildlife to Colorado Agriculture. 2009. Invited presentation, Annual meeting of the Colorado Farm Bureau, Colorado Springs, CO, November.
14. 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.
15. Cost of Wildlife to Colorado Agriculture. 2009. Special invitation-only presentation, Colorado Wildlife and Agricultural Leaders and Legislators, Denver, CO, September.
16. 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.
17. 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.
18. Hoag, D. Economic and Social Dimensions. Conservation Efficacy Assessment Program, CSREES National Water Conference, Reno, Nevada, 2008
19. The Economics of Risk. Presented at the University of Denver Law School, 2008
20. 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).
21. Hoag, Dana. The 2007 Farm Bill. Governor's Outlook Forum, Denver, Colorado, 2007
22. 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
23. 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.

24. Appeared on CSU-produced television program on the Future of Agriculture in America. 2006
25. WAEA Presidential Address: Economic Principles for Saving Extension. Presented at annual meetings of the Western Agricultural Economics Association, San Francisco, California, June, 2005.
26. RightRisk: A computer simulated game to teach risks. Pacific Northwest National Laboratory, Battelle. Richland, Washington, December, 2003.
27. Prospecting for returns to research. Pacific Northwest National Laboratory, Battelle. Richland, Washington, December, 2003
28. 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
29. Hoag, Dana. "Crises in Agriculture." Colorado Experiment Station, Research Center Conference, January, 2001
30. 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
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.

36. 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.
37. 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.
38. 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
39. Co-organize the 25th Anniversary Short Course on NEPA Assessment, Fort Collins, Colorado, August, 1995.
40. 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.
41. 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.
42. 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).
43. Hoag, D.L. 1994. Economic and Environmental Farm Management. Invited speaker, National Agricultural Pesticide Management Conference, March, St. Louis, Missouri.
44. 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.
45. 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.
46. Hoag, Dana. 1993. "Are the Models and Methods of Economists and Ecologists Compatible?" Session Moderator, Integrating Economic and Ecological Indicators, annual meeting of the Resource Policy Consortium, World Bank, Washington, D.C.
47. 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.
48. 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.
49. 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.

50. Hoag, D. 1991. International Management of the Global Commons, Program organizer and moderator, Symposium presented by the Resource Policy Consortium, May, Washington, D.C.
51. 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.
52. 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. Hoag, D. 2010. Using RightRisk NavigatorSRM for small farm decisions. Presented at the Arizona Navaho Reservation, June, 2010.
2. Risk NavigatorSRM 101. Online education program with 10 steaming video lessons and book (www.RiskNavigatorSRM)
3. 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.
4. Hoag, D. and J. Parsons. 2009. Using strategic risk management lite (SRM Lite): An example on Mountain View Farms. RightRisk, #LG-01-09
5. Hoag, D. and J. Parsons. 2009. Researching Barley insurance options: A RightRisk Lesson Guide with Mountain View Farms. RightRisk, #LG-09-07
6. Hoag, D., J. Parsons, and J. Olinger. "Oasis Ranch." A RightRisk Scenario Guide #SG-08-09. August 2008.
7. Hoag, D., J. Parsons, and K. Olson. "Mountain View Farms." A RightRisk Scenario Guide #SG-07-07. December 2008
8. Keske, C, D. Hoag, R. Goldbach and J. Parsons. 2007. Strategic Risk Management For Agricultural Women: A workbook to Support the Strategic Risk Management Process, Department of Agricultural and Resource Economics, Colorado State University
9. Kipperberg, Gorm, Craig Bond, and Dana Hoag. A Panel Mixed Logit Analysis of Farmers' Preferences for Private-Public Production System Attributes. AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.

10. Keske, Catherine, Dana Hoag, Chris Bastian, Ashley Miller, and Donald McLeod. What Are Landowners and Land Trusts Trying to Preserve with Conservation Easements? A Simultaneous Examination of Buyers and Sellers. AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.
11. Koontz, Lynne and Dana Hoag. Disparate Stakeholder Management of Wildlife Issues in the Southern Greater Yellowstone Area. AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.
12. Fathelrahman, Eihab, Dana Hoag and Stephen Davies. The Impact of Research Returns Across Time and Space: A Computable General Equilibrium Study of Cattle Research in Colorado. AAEA, WAEA, and CAES Joint Annual Meeting in Portland, OR. July 29-31, 2007.
13. 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)
14. Keske, C, D. Hoag, R. Goldbach and J. Parsons. 2007. Strategic Risk Management For Agricultural Women: A workbook to Support the Strategic Risk Management Process, Department of Agricultural and Resource Economics, Colorado State University
15. Godfrey, B, J. Parsons, J. Deering, and D. Hoag: Bar-B-Q Ranch. RightRisk Education Team Simulation Scenario and Scenario Guide, January, 2006 #SG-06-06)
16. Strategic Risk Management Education. Insert (booklet) for the High Plains Journal. Distributed about 7,000 to journal subscribers. Designed and edited the issue and wrote the following articles:
 - Hoag, D. Strategic Planning for Risk
 - Hoag, D. Step 2: Finding Your ability and preference to tolerate risk
 - Hoag, D. Step 5: Identify risk management alternatives
 - Hoag, D. and J. Parsons. Step 6: Determine likelihood of Risk Outcomes
 - Hoag, D. Step7: Ranking your management alternatives
 - Parsons, J. and D. Hoag. RightRisk: A computer simulation for managing risks.
17. Koontz, Lynne, and Dana L. Hoag. 2005. Analyzing Stakeholder Preferences for Managing Elk and Bison at the National Elk Refuge and Grand Teton National Park: an Example of the Disparate Stakeholder Management Approach. U.S. Geological Survey, in Cooperation with Colorado State University
18. Koontz Lynne and Dana Hoag. Analyzing Stakeholder Preferences for Managing Elk and Bison in the Southern Greater Yellowstone Area: an Example of the Disparate Stakeholder Management Approach. Decision Analysis Workshop with USGS Eastern Region and Partners, February 2 – 4, 2005
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PROFESSIONAL MEETINGS, WORKSHOPS AND SEMINARS

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2. 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.
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5. 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
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8. 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)
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25. 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.
26. 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.

27. 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.
28. 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.
29. 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
30. Hoag, D., A. LuLoff and D. Osmond. CEAP Synthesis: Preliminary Key Informant Interviews. USDA-CSREES National Water Conference, St Louis, MO, Feb 2009
31. 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
32. Hoag, D. et al.. Initial Progress of the CEAP Synthesis Project: Year 1. USDA-CSREES National Water Conference, St Louis, MO, Feb 2009.
33. 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.
34. 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.
35. 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.
36. 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.
37. Hoag, D. 2009. Wildlife Costs to Colorado Agriculture. Institute for Livestock and the Environment Stakeholder Summit, Colorado State University.
38. 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.
39. 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.
40. 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
41. 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.

42. 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.
43. Hoag, D. Economic and Social Dimensions. Conservation Efficacy Assessment Program, CSREES National Water Conference, Reno, Nevada, 2008
44. The Economics of Risk. Presented at the University of Denver Law School, 2008
45. 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.
46. 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.
47. 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.
48. 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.
49. Fathelrahman, 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.
50. 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
51. 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.
52. 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.
53. Parsons, Jay and Dana Hoag. Ag Survivor and Strategic Risk Management. National Extension Risk Management Education Conference. Phoenix, Arizona, April, 2007
54. 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).

55. 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).
56. 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
57. 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.
58. 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.
59. 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.
60. 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.
61. 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.
62. 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.
63. Rightrisk simulation workshop, Department of Farm Management, Lincoln University, Canterbury, New Zealand, 2005
64. 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
65. 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
66. 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

67. 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.
68. 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.
69. 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.
70. 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.
71. 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.
72. 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
73. Hoag, Dana. Risk Management Using Climate Data. Presented Climate Services regional meeting, National Weather Service, August 2004, Boulder Colorado
74. 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.
75. 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.
76. 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
77. 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
78. 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.
79. 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
80. 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.

81. Hoag, D. Return on Investment Results. Research Center Conference, Colorado Experiment Station, January, 2002
82. Caughlan, L. and D. Hoag. Stakeholder Preferences for Bison and Elk Management. Presented to the EIS planning team, Jackson Hole, Wyoming, (June 2002)
83. Hoag, Dana. Risk Management in Forage Production Systems. Main session speaker, Western Alfalfa & Forage Conference, Reno, Nevada (December 11-13, 2002)
84. 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.
85. 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.
86. 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.
87. 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.
88. 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.
89. 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.
90. 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.
91. 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.
92. 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.

93. 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.
94. 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.
95. 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.
96. 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.
97. 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.
98. 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.
99. 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.
100. 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.
101. 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
102. 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.
103. 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.
104. Hoag, D. Seven Crises in Agriculture. Agricultural and Resource Economics lunch time seminar, November, 3, 1999.
105. 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.
106. 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.
107. 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.
 108. 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.
 109. 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.
 110. 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.
 111. 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.
 112. Hoag, D. Approaches to Ecological Assessment. Presented the U.S. Environmental Protection Agency, Research Triangle Park, North Carolina, January 1998.
 113. 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.
 114. 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.
 115. 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.
 116. Hornbrook, E. and D. Hoag. The measurement of agricultural contribution, contributed paper, Western Association of Agricultural Economics, Annual Meeting, Reno, NV, 1997.
 117. 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.
 118. Hoag, D. How PAC contributions effect political behavior toward agricultural legislation. Seminar, Department of Agricultural and Resource Economics, Colorado State University, November, 1996
 119. 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.

120. 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.
121. 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.
122. 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.
123. 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.
124. 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.
125. White, D. and D. Hoag. Forest, Agriculture and Agroforestry Systems on Marginal Lands: A
126. Profitability and Cash Flow Uniformity Analysis. Western Agricultural Economics Association Annual Meeting, Rapid City, SD, July 1995.
127. 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.
128. 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.
129. 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
130. 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.
131. 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.
132. Hoag, D. 1995. PEET: Pesticide Economic and Environmental Tradeoffs. Computer demonstration at the Workshop on Computer Applications in Water Management, May, Ft. Collins, Colorado.
133. 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.
134. 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.
135. 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.
 136. 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.
 137. Hoag, D. and F. Roka. 1994. *Environmental Policy and Manure Management*. Great Plains Animal Waste Conference on Confined Animal Production and Water Quality, Denver.
 138. 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.
 139. 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.
 140. Hoag, D., A. Hornsby, and D. Nofziger. 1994. "PEET: Pesticide, Economic and Environmental Tradeoffs." 5th International Conference on Computers in Agriculture, Orlando, Florida, February.
 141. 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.
 142. Roka, F. and D. Hoag. 1993. "Developing a Manure Value Function." Annual meeting of the Southern Agricultural Economics Association, Nashville.
 143. 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.
 144. 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.
 145. 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.
 146. Hoag, D. 1993. "Conservation Tillage Plans for Farm Bill Purposes." North Carolina Residue Alliance Meeting, Statesville, North Carolina.
 147. Hoag, D. 1993. "Conservation Tillage Plans for Farm Bill Purposes." North Carolina Residue Alliance Meeting, Statesville, North Carolina.
 148. 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.
 149. 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.
150. Hoag, D. 1991. "Sustainable Agriculture Ideology: Economic and Environmental Tradeoffs." Dept. of Agricultural Economics Workshop.
 151. 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.
 152. 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.
 153. 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.
 154. 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.
 155. Hoag, D. 1991. "Issues In Providing Water Quality Education in the Extension Service." Workshop given at the USDA Extension Service, Washington, D.C.
 156. 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.
 157. 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.
 158. 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.
 159. 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.
 160. Hoag, D. 1990. "Budgeting Sustainable Agriculture Crops for the SMART System." Presented at the SMART Training Session for the East, Orlando, Florida.
 161. Hoag, D. 1990. "Least-cost Mitigation of Groundwater Contamination from Soybean Herbicides," Crop Science Seminar, North Carolina State University.
 162. Hoag, D. 1990. "Least-cost Mitigation of Groundwater Contamination from Soybean Herbicides," Joint Soil Science/Economics Seminar, University of Florida.
 163. Hoag, D. 1990. "Least-cost Mitigation of Groundwater Contamination from Soybean Herbicides," Economics Seminar, North Carolina State University.
 164. 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.

165. Hoag, D. 1990. "A Cost-Environmental Hazard Frontier for Soybean Herbicides." Presented at the annual Meeting of the Resource Policy Consortium, Washington, D.C.
166. Hoag, D. 1990. Environmental Issues and the 1990 Farm Bill. N.C. Society of Farm Managers and Rural Appraisers annual meeting.
167. Hoag, D. 1990. How to make the Most Out of Extension Communications in Washington, D.C., Agricultural Communication Specialists' annual retreat, Durham, N.C.
168. 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.
169. Hoag, D. and K. Jack. 1990. "Adoption of Low-input Systems Under Conservation Compliance." Annual meeting of the Southern Agricultural Economics Association, Little Rock.
170. 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.
171. Holloway, H. and D. Hoag. 1990. "Farm Production Decisions Under Conservation Compliance." Annual meeting of the Southern Agricultural Economics Association, Little Rock.
172. 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.
173. Hoag, D. 1989. "The Intertemporal Impact of Soil Erosion on Heterogeneous Soil Profiles." Presented at USDA-SCS in Washington, D.C.
174. Hoag, D. 1988. "Farm Program Options and Their Consequences." Invited speaker, League of Women Voters, Boone, NC.
175. Hoag, D. 1988. "Implications of Conservation Legislation on North Carolina Research." Seminar, Department of Soil Science, North Carolina State University, Raleigh, NC.
176. 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.
177. 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.
178. 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.
179. 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.
180. 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.
181. Hoag, D. 1986. "The Impact of Soil Erosion on Productivity: A TVA Assessment." Paper Presented at the TVA meetings, Muscle Shoals, AL, May.
182. Hoag, D. 1986. "Economic Implications of Highly Erodible Land Retirement Legislation." Soil Science Seminar.
183. 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.
184. 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.
185. 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.
186. 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.
187. 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.
188. 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.
189. Hoag, D. 1985. The Conservation Reserve. Economics and Business, Agricultural Economics Workshop, NCSU.
190. 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.
191. 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.
192. Hoag, D. 1984. "Short-Run Economics of Conservation Tillage Practices." Paper presented at the annual STEEP Review, Spokane, WA, January.

193. 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.
194. 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.
195. 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.
196. 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.
3. Hoag, D., J. Parsons and E. Fathelrahman. 2009. Risk Navigator SRM. An online educational site for risk management: www.RiskNavigatorSRM.com.
4. Hoag and E. Fathelrahman. 2008. Risk Influence Calculator, Risk Navigator SRM Risk Management Tool. www.risknavigatorsrm.com
5. Hoag, D, C. Keske and E. Fathelrahman. 2008. Risk Preference Calculator, Risk Navigator SRM Risk Management Tool. www.risknavigatorsrm.com
6. Hoag, D., J. Parsons and J. Olinger. 2008. Oasis Ranch. RightRisk Ag Survivor Scenario. Located at www.agsurvivor.com. RightRisk #SG-08-09
7. Keske and D. Hoag. 2008. Risk Profiler, Risk Navigator SRM Risk Management Tool. www.risknavigatorsrm.com
8. Hoag, E. Fathelrahman, and J. Ascough. 2008. Risk Efficiency Tool, , Risk Navigator SRM Risk Management Tool. www.risknavigatorsrm.com
9. Hoag, E. Fathelrahman, and J. Ascough. 2008. Risk Ranker, Risk Navigator SRM Risk Management Tool. www.risknavigatorsrm.com
10. Hoag and E. Fathelrahman. 2008. Value at Risk, Risk Navigator SRM Risk Management Tool. www.risknavigatorsrm.com
11. Parsons J. and D. Hoag. 2009. Mountain View Farms. RightRisk Ag Survivor Scenario. www.AgSurvivor.com.
12. Hoag, Dana (Kaan, Tranel, Sharp). PAL (Profit and Loss). Enterprise and hole farm budgeting software. Published jointly by the Agricultural Research Service, USDA, 2003
13. Osmond, D.L., T.J. Smyth, R.S. Yost, D. L. Hoag, W.S. Reid, W. Branch, X. Wang and H. Li. 2001. Integrated Soil Nutrient Management Decision Support System, v. 2.0. Soil Management Collaborative Research Support System, North Carolina State University, Raleigh, NC.

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.